anses
French agency for food, environmental and occupational health & safety

Second French Total Diet Study (TDS 2)

Report 2

Pesticide residues, additives, acrylamide and polycyclic aromatic hydrocarbons

ANSES Opinion

June 2011 Scientific publication

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Expert Report

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■ General coordination of the study and report

Jean-Charles Leblanc

Véronique Sirot

■ Contributors to the study and co-authors of the report

ANSES, Risk assessment department (DER)

Alexandre Nougadère (Coordination of the Pesticides part, Chapters 2 and 3)

Fanny Heraud (Chapter 3)

Nawel Bemrah (Chapter 4)

Karine Vin (Chapter 4)

Alexandra Tard (Chapters 5 and 6)

Nathalie Arnich (Chapter 5)

Julien Jean (Chapters 5 and 6)

Gilles Rivière (Chapters 5 and 6)

Jean-Luc Volatier (Chapter 2)

ANSES, Regulated Products Department (DPR) (Chapters 2 and 3)

Antony Fastier

Elise Bracq

Marie Luciot

Eric Truchot

Claude Vergnet

Thierry Mercier

Joint Laboratory Services Unit (SCL) (Chapters 2, 3 and 4)

Brigitte Pouyet and Christian Tricard - Scientific Directorate

Joëlle Baylé and Anne-Hélène Pinard - Rennes Laboratory

Monique Bertoli, Cécile Gerbaud, Annie-Claude Ladrat and Marie-Hélène Salagoity - Bordeaux Laboratory

Laurence Delaire, Cécile Rétho, Georges Samblat, Marie-Claude Gahery and Didier Agoutin - Massy Laboratory

Philippe Gros - Montpellier Laboratory

Thony Hoareau, Bertrand Turck and Rose-France Pastor - Lille Laboratory

Guy Jamet - Strasbourg Laboratory

Jean-Luc Gey - Lyon Laboratory

Laurent Fino - Marseille Laboratory

ANSES, Laboratory for Food Safety (LSA) (Chapters 2, 3 and 5)

Frédéric Hommet

Carole Medan

Audrey Thieffinne

Ali Kadar

Nantes-Atlantic National College of Veterinary Medicine, Food Science and Engineering (ONIRIS) - Laboratoire d'Étude des Résidus et Contaminants dans les Aliments (LABERCA) (Chapters 2 and 6)

Bruno Veyrand

Philippe Marchand

Bruno Le Bizec

The members of the ANSES Expert Committees (CESs) on additives, flavourings and processing aids, physical and chemical contaminants and residues, plant protection products: chemical substances and preparations

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List of abbreviations

ADI Acceptable Daily Intake
AFSSA *Agence française de sécurité sanitaire des aliments* [French Food Safety Agency]
ANSES *Agence nationale de sécurité sanitaire de l'alimentation, de l'environnement et du travail* [French Agency for Food, Environmental and Occupational Health & Safety]
ARfD Acute reference dose
CS_2 Carbon disulfide
BMDL Benchmark dose limit
DGAL Directorate General for Food
DGS Directorate General for Health
DTC Dithiocarbamates
EFSA European Food Safety Authority
FW Fresh Weight
GC Gas chromatography
GC-MS Gas chromatography coupled with mass spectrometry
HBGV Health-based Guidance Value
HPLC High performance liquid chromatography
INCA Individual and national study on food consumption
INRA *Institut National de Recherche Agronomique* [French National Institute for Agricultural Research]
INSEE *Institut national de la statistique et des études économiques* [National Institute of Statistics and Economic Studies]
JECFA Joint FAO/WHO Expert Committee on Food Additives
JMPR Joint FAO/WHO Meeting on Pesticide Residues
LABERCA *Laboratoire d'Étude des Résidus et Contaminants dans les Aliments* [Laboratory for research on residues and contaminants in food]
LB Lowerbound
LC Liquid chromatography
LC-MS/MS Liquid chromatography coupled with tandem mass spectrometry
LHN Nancy Laboratory for Hydrology
LMR Maximum residue limit
LOAEL Lowest observed adverse effect level
LOD Limit of detection
LOQ Limit of quantification
LSA Laboratory for Food Safety
MB Middlebound
NOAEL No observed adverse effect level
OPP Orthophenylphenol
ORP *Observatoire des résidus de pesticides* [French Observatory on Pesticide Residues]
PAH Polycyclic aromatic hydrocarbon
PMTDI Provisional Maximum Tolerable Daily Intake
PNNS *Programme National Nutrition Santé* [National Health and Nutrition Programme]
PTDI Provisional Tolerable Daily Intake
PTWI Provisional Tolerable Weekly Intake
PTMI Provisional Tolerable Monthly Intake
POP Persistent Organic Pollutant
QL Quality limit
TDI Tolerable Daily Intake
TDS Total Diet Studies
TMDI Theoretical Maximum Daily Intake
UB Upperbound
WHO World Health Organization

1. General introduction

The total diet studies (TDS) are national surveys of dietary exposure carried out to assess the risks of particular chemical substances to public health. They are elaborated on the basis of representative 'shopping baskets' of food consumption in mainland France that are analysed for a significant number of chemical substances likely to be found in foods 'as consumed'.

These studies use a standard method recommended by the World Health Organization (WHO) in order to screen for various chemical substances which may be found because:

- they are naturally present (this is true for inorganic contaminants, minerals, phytoestrogens) or are due to contamination of environmental origin, either natural (the case of mycotoxins) and/or due to industrial, agricultural, domestic human activities, etc (case of persistent organic pollutants, see report 1);
- because they are used for technological or agricultural reasons, or because they are formed during the production, transformation or preservation of the basic ingredients or food ready to be eaten (case of authorised substances such as food additives and pesticide residues, heat-induced contaminants, see report 2).

The surveillance of food composition and/or contamination, nutrient intake coverage, and the evaluation of health risks to populations provide essential scientific information to enable authorities to control and regulate chemical products and the safety of food products, on the national, European and international levels.

Consequently, for the risk assessors (public health agencies and research institutes or organisations responsible for ensuring the safety of food and the environment and for monitoring the state of health of the population), these scientific studies provide essential input for research and risk assessment. Furthermore, combined with consumption surveys, they enable a description of background levels of the composition and contamination of food 'as consumed' and of the chronic exposure levels affecting consumers. They are also used to characterise the risk of inadequate dietary intake and/or an excess of contaminants for the same consumers and to identify the food elements which either contribute the most to dietary intake and/or to total exposure.

For risk managers, public authorities and stakeholders in the food chain that are responsible for ensuring the safety of food, the environment and public health, these studies are just as essential. If any undesirable substances are found in food, the studies provide the scientific information needed to revise or introduce regulations in order to reduce consumer exposure. As for beneficial substances, the studies help guide consumption recommendations in order to optimise dietary intake.

The results of the studies are used to establish surveillance priorities (for food, the environment and the general state of health of the population) aimed at substances for which the dietary intake level or level of exposure for the consumer is close to or greater than the toxicological safety limit defined by the risk assessors.

Finally, the regular repetition of such national programmes ensures the availability of long-term indicators for evaluating the effectiveness of public health measures for food and the environment. For instance, exposure levels may be reduced by controlling the quality of food (withdrawing highly contaminated foodstuffs from the market for example), by changing production practices, but also by reducing environmental pollution at the source.

The first French TDS was undertaken between 2000 and 2004 by the French National Institute for Agricultural Research (INRA), in collaboration with the French Food Safety Agency (AFSSA). This led to a comprehensive appraisal of the population's exposure, including adults and children, to mycotoxins, as well as to inorganic contaminants and minerals. In 2006, AFSSA undertook a second TDS, which included a larger number of target substances. The survey included all of the substances which had already been analysed in the first study, in order to determine trends in the monitoring of the levels to which the population was exposed. Other substances were added to the list, either to update knowledge of them or more simply to fill a gap in French and international data. In addition to covering a wider range of substances (more than 400 as against 34 in the first survey), this new study covered all of the administrative regions in mainland France (as opposed to 3 major cities for TDS 1). Furthermore it was based on the most recent national individual consumer data, namely the INCA 2 survey (second individual and national food consumption survey) undertaken from 2006 to 2007.

2. Study method

The food consumption survey and the methods for selecting substances and food samples are described in Report 1.

2.1. Sample analysis

2.1.1. Pesticide residues

Pesticide residues were screened for in the initially selected group of known or suspected contributors to pesticide exposure (194/212 food types), irrespective of the level of contribution.

Analyses of foods of plant origin were performed by six laboratories of the Joint Laboratory Services Unit (SCL) of the General Directorate for Competition Policy, Consumer Affairs and Fraud Control (DGCCRF) and the General Directorate of Customs and Excise (DGDDI): Bordeaux, Lille, Massy, Montpellier, Rennes and Strasbourg. Analyses of foods of animal origin were performed by the Eurofins laboratory. All tests were conducted between December 2007 and March 2010.

Prior to freezing, all samples were homogenised by grinding in the presence of liquid nitrogen (see Report 1).

Foods of plant origin

Various analytical techniques were used to screen for pesticide residues in foods of plant origin (fresh fruits and vegetables, cooked or processed products) and drinks (beverages and water):

- a standard colorimetry method in the visible spectrum for overall determination of dithiocarbamates (NF EN 12396-1);
- a standard liquid chromatography method with UV detection for the determination of carbendazim and thiabendazole (NF EN 14333-1 or NF EN 14333-3);
- different 'multiresidue' methods, either standardised or derived from standards, including solvent extractions and use of gas (GC-MS) and liquid chromatography (LC-MS) coupled with mass spectrometry for screening and assaying other pesticides.

These methods have been validated on other commodities similar to those analysed or considered as equivalent in 2007-2009 (i.e. belonging to the same group of matrices according to the SANCO 2007/3131 guide) and have been assessed by a third party (COFRAC in France) in connection with accreditation under the ISO standard 17025.

The six priority dithiocarbamates were not assayed individually, but, in accordance with Regulation (EC) No 396/2005, globally after release of carbon disulphide (CS_2) by hot acid hydrolysis using stannous chloride as a reducing agent. Results have been expressed as mg of CS_2/kg fresh weight and correspond to the sum of the concentrations of active substances in this class. Considering a test conducted on a 200 g sample, the method's limit of detection (LOD) varied from 0.025 mg/kg (vegetables excluding potato) to 0.2 mg/kg (fruits). The average recovery rate was 98% and the measurement uncertainty was 20%.

After extraction, carbendazim and thiabendazole concentrations were determined by high-performance liquid chromatography (HPLC) on reverse phase with UV detection, or by liquid chromatography coupled with mass spectrometry (LC-MS) as part of a multiresidue method. The LOD ranged from 0.005 to 0.02 mg/kg for each of the two compounds depending on the initial test sample and the aliquot subjected to purification. The average recovery rate was 86% and the measurement uncertainty 15%.

Concerning the multiresidue methods, all the laboratories used a gas chromatography device coupled with a mass spectrometry detector (GC-MS). The Bordeaux and Montpellier laboratories supplemented their analyses with the use of electron capture detectors, pulsed flame photometric detectors and thermionic detectors which helped characterise certain pesticides and improve the detection capability. Liquid chromatography coupled with tandem mass spectrometry (LC-MS/MS) was used to detect and quantify certain non-volatile or thermolabile pesticides which could not be identified by gas chromatography.

For fresh fruits, vegetables and cereal products, under the analytical conditions described, the LODs ranged from 0.002 to 0.05 mg/kg and the limits of quantification (LOQ) from 0.006 to 0.15 mg/kg (except for imazalil, chlorothalonil, deltamethrin, dimethoate and folpet where they reached respectively 0.1 and 0.35 mg/kg). Recovery rates of the multiresidue methods varied depending on the pesticides from 50 to 130%, with 90% of them falling within the 70-120% range recommended by the SANCO 2007/3131 guide. Uncertainty was 25% on average but increased to as much as 70% for some pesticides or for very low values.

For fatty, cooked or composite foods and alcoholic beverages, which are more complex matrices for which no analytical methods have yet been validated, tests to control yields and limits of detection and quantification were conducted on a representative matrix from each category: croissant-like pastries, salted potato crisps, mashed potato, tabbouleh and wine. The LODs and LOQs were very similar to those obtained for plant products. In contrast, the recovery rate of the analytical methods varied from 25 to 135%, with a mean 85% being within the recommended range of 70-120%. It was noted in particular that more pesticides had low yields (azinphos-methyl, chlorothalonil, dicofol, dichlorvos, omethoate, oxydemeton-methyl), probably due to disruptive effects associated with the matrix. The uncertainty varied from 50 to 90%.

Overall, the analytical limits depended largely on the substance, the matrix and the method used. The LODs ranged from 0.0005 mg/kg (carbendazim in coffee) to 0.25 mg/kg (folpet in mashed potato). The list of LODs for plant matrices is given in Table G1.

A recovery rate was calculated for each series of analyses on a matrix representative of the series to be analysed and on a limited number of active substances. For each new series, the matrix and the active substances to be tested were different in order to cover all the active ingredients to be screened over a short period. A five-point calibration curve was generated before any measurement. The calibration mode was solvent calibration combined with an internal standard.

During the assays, the checkpoint for the recovery rate was measured at the end of the analysis sequence as well as a calibration point. If necessary, depending on the number of samples to be analysed, calibration points were added during the analysis.

Foods of animal origin

Concerning foods of animal origin, different multiresidue methods were used, either standard or derived from standards, including solvent extraction(s) and GC-MS or LC-MS/MS. The extraction and purification methods varied greatly depending on the substance studied, the nature of the sample (water and fat content) and the measurement technique. Organotins (cyhexatin, fenbutatin oxide, fentin acetate and fentin hydroxide) were assayed by GC-MS. Dithiocarbamates were analysed by Headspace GC-MS. Quaternary ammonium compounds (paraquat and diquat) were analysed by LC-MS/MS.

These methods have been validated on other products similar to those analysed or considered as equivalent in 2007-2009 (belonging to the same group of matrices according to the SANCO 2007/3131 guide) and have been controlled by a third party (AKS in Germany) as part of an accreditation under the ISO standard 17025.

Recovery rates from the analytical methods varied widely depending on the substances and matrices (from 3 to 364%). However, 70% of them were within the recommended range of 70-120% and 92% (SANCO 2009) were within the acceptable range of 35-160%. The LODs ranged from 0.001 mg/kg (chlorpyrifos-ethyl in all animal matrices) to 0.1 mg/kg (sulfotep in dairy products) (Table G1).

A blank or control sample was included in each series of samples measured, for each analytical method. A five-point calibration curve, specific to each matrix, was generated before any measurement. The calibration mode was matrix-matched calibration (extraction then addition to the extract of different mixtures of pesticides at different concentrations to obtain the range at 5 levels) combined with an internal standard for all methods except for dithiocarbamates. The internal standards used were:

- for mepiquat: mepiquat -d3;
- multiresidue LC/MS: diuron-d6;
- multiresidue GC/MS: PCB206;
- organotins: tripropyltin chloride and tetraphenyltin.

During the assays, two recovery standards (blank matrix and addition of pesticides before extraction), prepared at the limit of quantification (LOQ) and at ten times the LOQ, were measured for each series of 15 samples. One calibration point was also measured every 15 samples. A range was extracted for each sample type. The recovery rate was not taken into account in the results for any of the methods, except for dithiocarbamates.

Given that most analytical methods used were 'multiresidue' methods, a total of 325 active substances and degradation products were screened for (from 55 to 232 substances per sample depending on the matrix and method type). This comes to a total of 169,803 analyses.

Among the 72 priority substances, three were not investigated because it was not feasible or because of the cost of analysis (cyanide, hydrogen phosphide and metaldehyde). Moreover, as described above, six dithiocarbamates were grouped into a single 'analytical item' because they were tested together. Thus, 64 priority substances were analysed.

About 2% of the analytical results (undetected) were not considered for the exposure calculations due to recovery rates that were too low (<35%) or too high (>160%). The excluded analytical results correspond to 55 substance-matrix combinations (mainly of animal origin). No test results were corrected by the recovery rate.

Table G1: Limits of detection per pesticide-food group combination (mg/kg FW)

Active substance	Aldicarb min	Aldicarb max	Aldrin min	Aldrin max	Azinphos-methyl min	Azinphos-methyl max	Biphenyl min	Biphenyl max	Camphechlor min	Camphechlor max	Carbaryl min	Carbaryl max	Carbendazim min	Carbendazim max
Bread and dried bread products	-	-	0.003	0.003	0.005	0.005	-	-	-	-	0.003	0.003	0.005	0.005
Breakfast cereals	-	-	0.003	0.003	0.005	0.005	-	-	-	-	0.003	0.003	0.005	0.005
Pasta	0.005	0.005	0.003	0.005	0.005	0.010	-	-	-	-	0.003	0.005	0.005	0.010
Rice and wheat products	0.005	0.005	0.003	0.005	0.005	0.010	-	-	-	-	0.003	0.005	0.005	0.010
Croissant-like pastries	-	-	0.003	0.003	0.005	0.005	-	-	-	-	0.003	0.003	0.005	0.005
Sweet and savoury biscuits and bars	-	-	0.003	0.003	0.005	0.005	-	-	-	-	0.003	0.003	0.005	0.005
Pastries and cakes	0.002	0.002	0.002	0.003	0.005	0.008	-	-	0.002	0.002	0.002	0.003	0.002	0.005
Milk	0.002	0.002	0.002	0.002	0.008	0.008	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Ultra-fresh dairy products	0.002	0.002	0.002	0.002	0.008	0.008	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Cheese and butter	0.002	0.002	0.002	0.002	0.003	0.003	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Eggs and egg products	0.002	0.002	0.002	0.002	0.003	0.003	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Meat, offal, poultry and game	0.002	0.002	0.002	0.002	0.003	0.003	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Delicatessen meats	0.002	0.002	0.002	0.002	0.003	0.003	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Fish	0.002	0.002	0.002	0.002	0.008	0.008	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Crustaceans and molluscs	0.002	0.002	0.002	0.002	0.008	0.008	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Vegetables (excluding potatoes)	-	-	0.005	0.005	0.020	0.050	-	-	-	-	0.025	0.025	0.005	0.010
Potatoes and potato products	0.005	0.005	0.005	0.005	0.010	0.020	-	-	-	-	0.005	0.005	0.010	0.010
Pulses	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.005	0.005	0.010	0.010
Fruits	0.020	0.020	0.003	0.003	0.010	0.010	0.005	0.005	-	-	0.005	0.005	0.005	0.005
Dried fruits, nuts and seeds	-	-	0.003	0.003	0.005	0.005	-	-	-	-	0.003	0.003	0.005	0.005
Chocolate	0.002	0.002	0.002	0.002	0.008	0.008	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Sugars and sugar derivatives	0.002	0.002	0.002	0.002	0.008	0.008	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Water	0.0005	0.0005	0.0050	0.0050	0.0200	0.0200	0.0050	0.0050	-	-	0.0050	0.0050	0.0005	0.0005
Hot and cold beverages (excluding water)	0.0005	0.0005	0.0050	0.0050	0.0200	0.0200	0.0050	0.0050	-	-	0.0050	0.0050	0.0005	0.0005
Pizzas, quiches, pastries and cakes	0.002	0.005	0.002	0.005	0.008	0.010	-	-	0.002	0.002	0.002	0.005	0.002	0.010
Sandwiches and snacks	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.005	0.005	0.010	0.010
Soups and broths	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.005	0.005	0.010	0.010
Mixed dishes	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.005	0.005	0.010	0.010
Dairy-based desserts	0.002	0.002	0.002	0.002	0.008	0.008	-	-	0.002	0.002	0.002	0.002	0.002	0.002
Compotes and cooked fruit	-	-	0.003	0.003	0.005	0.005	-	-	-	-	0.003	0.003	0.005	0.005
Seasonings and sauces	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.005	0.005	0.010	0.010

Active substance	Carbetamide min	Carbetamide max	Carbofuran min	Carbofuran max	Chlordane min	Chlordane max	Chlorfen-vinphos min	Chlorfen-vinphos max	Chlorotha-lonil min	Chlorotha-lonil max	Chlorpyrifos-ethyl min	Chlorpyrifos-ethyl max	Chlorpyrifos-methyl min	Chlorpyrifos-methyl max
Bread and dried bread products	-	-	0.005	0.005	0.006	0.006	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Breakfast cereals	-	-	0.005	0.005	0.006	0.006	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Pasta	-	-	0.005	0.005	0.006	0.006	0.003	0.005	0.003	0.005	0.003	0.005	0.003	0.005
Rice and wheat products	-	-	0.005	0.005	0.006	0.006	0.003	0.005	0.003	0.005	0.003	0.005	0.003	0.005
Croissant-like pastries	-	-	0.005	0.005	0.006	0.006	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Sweet and savoury biscuits and bars	-	-	0.005	0.005	0.006	0.006	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Pastries and cakes	0.002	0.002	0.002	0.005	0.006	0.006	0.002	0.003	0.002	0.003	0.001	0.003	0.001	0.003
Milk	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Ultra-fresh dairy products	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001
Cheese and butter	0.002	0.002	-	-	-	-	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Eggs and egg products	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Meat, offal, poultry and game	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.003	0.003	0.001	0.001	0.002	0.002
Delicatessen meats	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.003	0.003	0.001	0.001	0.002	0.002
Fish	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Crustaceans and molluscs	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Vegetables (excluding potatoes)	-	-	0.020	0.020	0.020	0.020	0.010	0.010	0.005	0.100	0.010	0.025	0.010	0.025
Potatoes and potato products	-	-	0.005	0.005	-	-	0.005	0.010	0.005	0.100	0.005	0.010	0.005	0.010
Pulses	-	-	0.005	0.005	-	-	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Fruits	-	-	0.005	0.005	0.003	0.003	0.005	0.005	0.003	0.003	0.003	0.003	0.003	0.003
Dried fruits, nuts and seeds	-	-	0.005	0.005	0.006	0.006	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Chocolate	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001
Sugars and sugar derivatives	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001
Water	-	-	0.0050	0.0050	-	-	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
Hot and cold beverages (excluding water)	-	-	0.0050	0.0050	-	-	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050
Pizzas, quiches, pastries and cakes	0.002	0.002	0.002	0.005	-	-	0.002	0.005	0.002	0.005	0.001	0.005	0.001	0.005
Sandwiches and snacks	-	-	0.005	0.005	-	-	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Soups and broths	-	-	0.005	0.005	-	-	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Mixed dishes	-	-	0.005	0.005	-	-	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Dairy-based desserts	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001
Compotes and cooked fruit	-	-	0.005	0.005	0.006	0.006	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Seasonings and sauces	-	-	0.005	0.005	-	-	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Active substance	Cyhexatin min	Cyhexatin max	Deltamethrin min	Deltamethrin max	Diazinon min	Diazinon max	Dichlorvos min	Dichlorvos max	Dicofol min	Dicofol max	Dieldrin min	Dieldrin max	Dimethoate min	Dimethoate max
Bread and dried bread products	-	-	0.007	0.007	0.007	0.007	0.005	0.005	0.007	0.007	0.005	0.005	0.005	0.005
Breakfast cereals	-	-	0.007	0.007	0.007	0.007	0.005	0.005	0.007	0.007	0.005	0.005	0.005	0.005
Pasta	-	-	0.007	0.025	0.005	0.007	0.005	0.030	0.007	0.010	0.005	0.007	0.005	0.005
Rice and wheat products	-	-	0.007	0.025	0.005	0.007	0.005	0.030	0.007	0.010	0.005	0.007	0.005	0.005
Croissant-like pastries	-	-	0.007	0.007	0.007	0.007	0.005	0.005	0.007	0.007	0.005	0.005	0.005	0.005
Sweet and savoury biscuits and bars	-	-	0.007	0.007	0.007	0.007	0.005	0.005	0.007	0.007	0.005	0.005		0.005
Pastries and cakes	0.002	0.002	0.003	0.007	0.002	0.007	0.002	0.005	0.002	0.007	0.001	0.005	0.002	0.005
Milk	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002
Ultra-fresh dairy products	-	-	0.003	0.003	0.002	0.002	-	-	0.002	0.002	0.001	0.001	0.002	0.002
Cheese and butter	-	-	0.003	0.003	0.003	0.003	-	-	0.003	0.003	0.002	0.002	0.002	0.002
Eggs and egg products	0.003	0.003	0.003	0.003	0.003	0.003	-	-	0.003	0.003	0.002	0.002	0.002	0.002
Meat, offal, poultry and game	-	-	0.003	0.003	0.003	0.003	-	-	0.003	0.003	0.002	0.002	0.002	0.002
Delicatessen meats	-	-	0.003	0.003	0.003	0.003	-	-	0.003	0.003	0.002	0.002	0.002	0.002
Fish	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002
Crustaceans and molluscs	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002
Vegetables (excluding potatoes)	-	-	0.025	0.100	0.010	0.020	0.010	0.050	0.010	0.020	0.005	0.020	0.010	0.100
Potatoes and potato products	-	-	0.025	0.100	0.005	0.020	0.010	0.030	0.010	0.020	0.007	0.020	0.005	0.100
Pulses	-	-	0.025	0.025	0.005	0.005	0.030	0.030	0.010	0.010	0.007	0.007	0.005	0.005
Fruits	-	-	0.003	0.003	0.003	0.003	0.010	0.010	0.003	0.003	0.003	0.003	0.005	0.005
Dried fruits, nuts and seeds	-	-	0.007	0.007	0.007	0.007	0.005	0.005	0.007	0.007	0.005	0.005	0.005	0.005
Chocolate	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002
Sugars and sugar derivatives	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002
Water	-	-	0.0100	0.0100	0.0050	0.0050	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100
Hot and cold beverages (excluding water)	-	-	0.0100	0.0100	0.0050	0.0050	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100
Pizzas, quiches, pastries and cakes	-	-	0.003	0.025	0.002	0.005	0.030	0.030	0.002	0.010	0.001	0.007	0.002	0.005
Sandwiches and snacks	-	-	0.025	0.025	0.005	0.005	0.030	0.030	0.010	0.010	0.007	0.007	0.005	0.005
Soups and broths	-	-	0.025	0.025	0.005	0.005	0.030	0.030	0.010	0.010	0.007	0.007	0.005	0.005
Mixed dishes	-	-	0.025	0.025	0.005	0.005	0.030	0.030	0.010	0.010	0.007	0.007	0.005	0.005
Dairy-based desserts	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002
Compotes and cooked fruit	-	-	0.007	0.007	0.007	0.007	0.005	0.005	0.007	0.007	0.005	0.005	0.005	0.005
Seasonings and sauces	-	-	0.025	0.025	0.005	0.005	0.030	0.030	0.010	0.010	0.007	0.007	0.005	0.005

Active substance	Diquat min	Diquat max	Disulfoton min	Disulfoton max	Dithiocarbamates min	Dithiocarbamates max	Endosulfan min	Endosulfan max	Endrin min	Endrin max	Ethion min	Ethion max	Ethoxyquin min	Ethoxyquin max
Bread and dried bread products	-	-	-	-	-	-	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005
Breakfast cereals	-	-	-	-	-	-	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005
Pasta	-	-	-	-	-	-	0.003	0.020	0.005	0.005	0.005	0.005	0.005	0.005
Rice and wheat products	-	-	-	-	-	-	0.003	0.020	0.005	0.005	0.005	0.005	0.005	0.005
Croissant-like pastries	-	-	-	-	-	-	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005
Sweet and savoury biscuits and bars	-	-	-	-	-	-	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005
Pastries and cakes	0.003	0.003	-	-	0.007	0.007	0.001	0.003	0.001	0.005	0.002	0.005	0.005	0.005
Milk	0.003	0.003	-	-	0.003	0.003	0.001	0.001	0.001	0.001	0.002	0.002	0.033	0.033
Ultra-fresh dairy products	0.003	0.003	0.017	0.017	0.003	0.003	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Cheese and butter	-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Eggs and egg products	-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Meat, offal, poultry and game	-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Delicatessen meats	-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Fish	-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Crustaceans and molluscs	-	-	-	-	-	-	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Vegetables (excluding potatoes)	-	-	0.020	0.020	0.025	0.100	0.010	0.025	0.020	0.020	0.005	0.020	0.010	0.010
Potatoes and potato products	-	-	-	-	0.100	0.100	0.010	0.020	-	-	0.005	0.020	-	-
Pulses	-	-	-	-	-	-	0.010	0.020	-	-	0.005	0.005	-	-
Fruits	-	-	0.010	0.010	0.200	0.200	0.003	0.003	0.003	0.003	0.003	0.003	-	-
Dried fruits, nuts and seeds	-	-	-	-	-	-	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005
Chocolate	0.003	0.003	-	-	0.007	0.007	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Sugars and sugar derivatives	0.003	0.003	-	-	0.007	0.007	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Water	-	-	0.0100	0.0100	-	-	0.0100	0.0100	0.0050	0.0050	0.0050	0.0050	-	-
Hot and cold beverages (excluding water)	-	-	0.0100	0.0100	-	-	0.0100	0.0100	0.0050	0.0050	0.0050	0.0050	-	-
Pizzas, quiches, pastries and cakes	0.003	0.003	0.017	0.017	0.003	0.003	0.001	0.020	0.001	0.001	0.002	0.005	-	-
Sandwiches and snacks	-	-	-	-	-	-	0.010	0.020	-	-	0.005	0.005	-	-
Soups and broths	-	-	-	-	-	-	0.010	0.020	-	-	0.005	0.005	-	-
Mixed dishes	-	-	-	-	-	-	0.010	0.020	-	-	0.005	0.005	-	-
Dairy-based desserts	0.003	0.003	-	-	0.007	0.007	0.001	0.001	0.001	0.001	0.002	0.002	-	-
Compotes and cooked fruit	-	-	-	-	-	-	0.003	0.003	0.005	0.005	0.005	0.005	0.005	0.005
Seasonings and sauces	-	-	-	-	-	-	0.010	0.020	-	-	0.005	0.005	-	-

Active substance	Fenbutatin oxide min	Fenbutatin oxide max	Fenitrothion min	Fenitrothion max	Fenpropimorph min	Fenpropimorph max	Fenthion min	Fenthion max	Fentin acetate min	Fentin acetate max	Fentin hydroxide min	Fentin hydroxide max	Folpet min	Folpet max
Bread and dried bread products	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.005
Breakfast cereals	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.005
Pasta	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.007
Rice and wheat products	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.007
Croissant-like pastries	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.005
Sweet and savoury biscuits and bars	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.005
Pastries and cakes	0.002	0.002	0.001	0.005	0.005	0.005	0.002	0.005	0.002	0.002	0.002	0.002	0.005	0.007
Milk	-	-	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.007	0.007
Ultra-fresh dairy products	-	-	0.001	0.001	0.002	0.002	0.002	0.002	-	-	-	-	0.007	0.007
Cheese and butter	0.002	0.002	0.002	0.002	-	-	0.003	0.003	-	-	-	-	0.017	0.017
Eggs and egg products	-	-	0.003	0.003	-	-	0.003	0.003	0.003	0.003	0.003	0.003	0.017	0.017
Meat, offal, poultry and game	-	-	0.002	0.002	-	-	0.003	0.003	-	-	-	-	0.017	0.017
Delicatessen meats	-	-	0.002	0.002	-	-	0.003	0.003	-	-	-	-	0.017	0.017
Fish	0.002	0.002	0.001	0.001	-	-	0.002	0.002	0.002	0.002	0.002	0.002	0.007	0.007
Crustaceans and molluscs	0.002	0.002	0.001	0.001	-	-	0.002	0.002	0.002	0.002	0.002	0.002	0.007	0.007
Vegetables (excluding potatoes)	-	-	0.010	0.025	0.020	0.020	0.020	0.050	-	-	-	-	0.020	0.100
Potatoes and potato products	-	-	0.005	0.010	-	-	0.005	0.050	-	-	-	-	0.007	0.250
Pulses	-	-	0.005	0.005	-	-	0.005	0.005	-	-	-	-	0.007	0.007
Fruits	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.003	0.003
Dried fruits, nuts and seeds	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.005
Chocolate	0.002	0.002	0.001	0.001	-	-	0.002	0.002	0.002	0.002	0.002	0.002	0.007	0.007
Sugars and sugar derivatives	0.002	0.002	0.001	0.001	-	-	0.002	0.002	0.002	0.002	0.002	0.002	0.007	0.007
Water	-	-	0.0050	0.0050	-	-	0.0100	0.0100	-	-	-	-	0.0100	0.0100
Hot and cold beverages (excluding water)	-	-	0.0050	0.0050	-	-	0.0100	0.0100	-	-	-	-	0.0100	0.0100
Pizzas, quiches, pastries and cakes	-	-	0.001	0.005	0.002	0.002	0.002	0.005	-	-	-	-	0.007	0.007
Sandwiches and snacks	-	-	0.005	0.005	-	-	0.005	0.005	-	-	-	-	0.007	0.007
Soups and broths	-	-	0.005	0.005	-	-	0.005	0.005	-	-	-	-	0.007	0.007
Mixed dishes	-	-	0.005	0.005	-	-	0.005	0.005	-	-	-	-	0.007	0.007
Dairy-based desserts	0.002	0.002	0.001	0.001	-	-	0.002	0.002	0.002	0.002	0.002	0.002	0.007	0.007
Compotes and cooked fruit	-	-	0.005	0.005	0.005	0.005	0.005	0.005	-	-	-	-	0.005	0.005
Seasonings and sauces	-	-	0.005	0.005	-	-	0.005	0.005	-	-	-	-	0.007	0.007

Active substance	HCH min	HCH max	Heptachlor min	Heptachlor max	HCB min	HCB max	Imazalil min	Imazalil max	Iprodione min	Iprodione max	Lindane min	Lindane max	Malathion min	Malathion max
Bread and dried bread products	0.005	0.005	0.007	0.007	0.003	0.003	0.100	0.100	0.005	0.005	0.020	0.020	0.003	0.003
Breakfast cereals	0.005	0.005	0.007	0.007	0.003	0.003	0.100	0.100	0.005	0.005	0.020	0.020	0.003	0.003
Pasta	0.005	0.005	0.007	0.007	0.003	0.005	0.010	0.100	0.005	0.010	0.005	0.020	0.003	0.010
Rice and wheat products	0.005	0.005	0.007	0.007	0.003	0.005	0.010	0.100	0.005	0.010	0.005	0.020	0.003	0.010
Croissant-like pastries	0.005	0.005	0.007	0.007	0.003	0.003	0.100	0.100	0.005	0.005	0.020	0.020	0.003	0.003
Sweet and savoury biscuits and bars	0.005	0.005	0.007	0.007	0.003	0.003	0.100	0.100	0.005	0.005	0.020	0.020	0.003	0.003
Pastries and cakes	0.002	0.005	0.001	0.007	0.001	0.003	0.002	0.100	0.005	0.007	0.001	0.020	0.002	0.003
Milk	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.007	0.007	0.001	0.001	0.002	0.002
Ultra-fresh dairy products	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.007	0.007	0.001	0.001	0.002	0.002
Cheese and butter	0.002	0.002	0.001	0.001	0.001	0.001	-	-	0.017	0.017	0.001	0.001	0.003	0.003
Eggs and egg products	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.017	0.017	0.003	0.003	0.003	0.003
Meat, offal, poultry and game	0.002	0.002	0.001	0.001	0.002	0.002	0.003	0.003	0.017	0.017	0.002	0.002	0.003	0.003
Delicatessen meats	0.002	0.002	0.001	0.001	0.002	0.002	0.003	0.003	0.017	0.017	0.002	0.002	0.003	0.003
Fish	0.002	0.002	0.001	0.001	0.001	0.001	-	-	0.007	0.007	0.001	0.001	0.002	0.002
Crustaceans and molluscs	0.002	0.002	0.001	0.001	0.001	0.001	-	-	0.007	0.007	0.001	0.001	0.002	0.002
Vegetables (excluding potatoes)	0.005	0.01	0.020	0.020	0.005	0.005	0.010	0.100	0.010	0.020	0.005	0.020	0.010	0.020
Potatoes and potato products	0.01	0.01	-	-	0.005	0.005	0.010	0.100	0.010	0.020	0.005	0.020	0.010	0.020
Pulses	0.005	0.005	-	-	0.005	0.005	0.010	0.010	0.010	0.010	0.005	0.005	0.010	0.010
Fruits	0.003	0.003	0.003	0.003	0.003	0.003	0.020	0.020	0.005	0.005	0.003	0.003	0.003	0.003
Dried fruits, nuts and seeds	0.005	0.005	0.007	0.007	0.003	0.003	0.100	0.100	0.005	0.005	0.020	0.020	0.003	0.003
Chocolate	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.007	0.007	0.001	0.001	0.002	0.002
Sugars and sugar derivatives	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.007	0.007	0.001	0.001	0.002	0.002
Water	0.0050	0.0050	0.0100	0.0100	0.0050	0.0050	0.0200	0.0200	0.0100	0.0100	0.0050	0.0050	0.0100	0.0100
Hot and cold beverages (excluding water)	0.0050	0.0050	0.0100	0.0100	0.0050	0.0050	0.0200	0.0200	0.0100	0.0100	0.0050	0.0050	0.0100	0.0100
Pizzas, quiches, pastries and cakes	0.002	0.005	0.001	0.001	0.001	0.005	0.002	0.010	0.007	0.010	0.001	0.005	0.002	0.010
Sandwiches and snacks	-	-	-	-	0.005	0.005	0.010	0.010	0.010	0.010	0.005	0.005	0.010	0.010
Soups and broths	-	-	-	-	0.005	0.005	0.010	0.010	0.010	0.010	0.005	0.005	0.010	0.010
Mixed dishes	-	-	-	-	0.005	0.005	0.010	0.010	0.010	0.010	0.005	0.005	0.010	0.010
Dairy-based desserts	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.007	0.007	0.001	0.001	0.002	0.002
Compotes and cooked fruit	0.005	0.005	0.007	0.007	0.003	0.003	0.100	0.100	0.005	0.005	0.020	0.020	0.003	0.003
Seasonings and sauces	-	-	-	-	0.005	0.005	0.010	0.010	0.010	0.010	0.005	0.005	0.010	0.010

Active substance	Methidathion min	Methidathion max	Methomyl min	Methomyl max	Mevinphos min	Mevinphos max	Monocrotophos min	Monocrotophos max	Naled min	Naled max	Ofurace min	Ofurace max	Omethoate min	Omethoate max
Bread and dried bread products	0.005	0.005	-	-	0.005	0.005	0.005	0.005	-	-	-	-	0.010	0.010
Breakfast cereals	0.005	0.005	-	-	0.005	0.005	0.005	0.005	-	-	-	-	0.010	0.010
Pasta	0.005	0.025	0.005	0.005	0.005	0.005	0.005	0.010	-	-	-	-	0.006	0.010
Rice and wheat products	0.005	0.025	0.005	0.005	0.005	0.005	0.005	0.010	-	-	-	-	0.006	0.010
Croissant-like pastries	0.005	0.005	-	-	0.005	0.005	0.005	0.005	-	-	-	-	0.010	0.010
Sweet and savoury biscuits and bars	0.005	0.005	-	-	0.005	0.005	0.005	0.005	-	-	-	-	0.010	0.010
Pastries and cakes	0.002	0.005	0.002	0.002	0.002	0.005	0.002	0.005	-	-	0.002	0.002	0.002	0.010
Milk	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Ultra-fresh dairy products	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Cheese and butter	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Eggs and egg products	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Meat, offal, poultry and game	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Delicatessen meats	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Fish	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Crustaceans and molluscs	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Vegetables (excluding potatoes)	0.010	0.020	-	-	0.020	0.020	0.020	0.020	0.020	0.020	-	-	0.020	0.050
Potatoes and potato products	0.020	0.025	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.006	0.050
Pulses	0.025	0.025	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.006	0.006
Fruits	0.005	0.005	0.003	0.003	0.005	0.005	0.010	0.010	-	-	-	-	0.010	0.010
Dried fruits, nuts and seeds	0.005	0.005	-	-	0.005	0.005	0.005	0.005	-	-	-	-	0.010	0.010
Chocolate	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Sugars and sugar derivatives	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Water	0.0100	0.0100	0.0005	0.0005	0.0100	0.0100	0.0200	0.0200	-	-	-	-	0.0200	0.0200
Hot and cold beverages (excluding water)	0.0100	0.0100	0.0005	0.0005	0.0100	0.0100	0.0200	0.0200	-	-	-	-	0.0200	0.0200
Pizzas, quiches, pastries and cakes	0.002	0.025	0.002	0.005	0.002	0.005	0.002	0.010	-	-	0.002	0.002	0.002	0.006
Sandwiches and snacks	0.025	0.025	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.006	0.006
Soups and broths	0.025	0.025	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.006	0.006
Mixed dishes	0.025	0.025	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.006	0.006
Dairy-based desserts	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-	-	0.002	0.002	0.002	0.002
Compotes and cooked fruit	0.005	0.005	-	-	0.005	0.005	0.005	0.005	-	-	-	-	0.010	0.010
Seasonings and sauces	0.025	0.025	0.005	0.005	0.005	0.005	0.010	0.010	-	-	-	-	0.006	0.006

Active substance	Oxydemeton-methyl min	Oxydemeton-methyl max	Parathion min	Parathion max	Phorate min	Phorate max	Phosalone min	Phosalone max	Phosmet min	Phosmet max	Phosphamidon min	Phosphamidon max	Pyrimiphos-methyl min	Pyrimiphos-methyl max
Bread and dried bread products	-	-	0.020	0.020	0.100	0.100	0.003	0.003	0.005	0.005	0.007	0.007	0.003	0.003
Breakfast cereals	-	-	0.020	0.020	0.100	0.100	0.003	0.003	0.005	0.005	0.007	0.007	0.003	0.003
Pasta	0.010	0.010	0.010	0.020	0.100	0.100	0.003	0.010	0.005	0.005	0.007	0.007	0.003	0.005
Rice and wheat products	0.010	0.010	0.010	0.020	0.100	0.100	0.003	0.010	0.005	0.005	0.007	0.007	0.003	0.005
Croissant-like pastries	-	-	0.020	0.020	0.100	0.100	0.003	0.003	0.005	0.005	0.007	0.007	0.003	0.003
Sweet and savoury biscuits and bars	-	-	0.020	0.020	0.100	0.100	0.003	0.003	0.005	0.005	0.007	0.007	0.003	0.003
Pastries and cakes	0.002	0.002	0.001	0.020	0.002	0.100	0.002	0.003	0.003	0.005	0.002	0.007	0.003	0.003
Milk	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003
Ultra-fresh dairy products	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003
Cheese and butter	0.002	0.002	0.003	0.003	0.007	0.007	0.003	0.003	0.007	0.007	0.002	0.002	0.002	0.002
Eggs and egg products	0.002	0.002	0.003	0.003	0.007	0.007	0.003	0.003	0.007	0.007	0.002	0.002	0.003	0.003
Meat, offal, poultry and game	0.002	0.002	0.003	0.003	0.007	0.007	0.003	0.003	0.007	0.007	0.002	0.002	0.003	0.003
Delicatessen meats	0.002	0.002	0.003	0.003	0.007	0.007	0.003	0.003	0.007	0.007	0.002	0.002	0.003	0.003
Fish	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003
Crustaceans and molluscs	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003
Vegetables (excluding potatoes)	-	-	0.020	0.020	0.010	0.010	0.020	0.025	0.005	0.020	0.020	0.020	0.020	0.025
Potatoes and potato products	0.010	0.010	0.010	0.020	-	-	0.010	0.020	0.005	0.020	-	-	0.005	0.020
Pulses	0.010	0.010	0.010	0.010	-	-	0.010	0.010	0.005	0.005	-	-	0.005	0.005
Fruits	-	-	0.005	0.005	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.003	0.003
Dried fruits, nuts and seeds	-	-	0.020	0.020	0.100	0.100	0.003	0.003	0.005	0.005	0.007	0.007	0.003	0.003
Chocolate	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003
Sugars and sugar derivatives	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003
Water	-	-	0.0100	0.0100	0.0200	0.0200	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0050	0.0050
Hot and cold beverages (excluding water)	-	-	0.0100	0.0100	0.0200	0.0200	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0050	0.0050
Pizzas, quiches, pastries and cakes	0.002	0.010	0.001	0.010	0.002	0.002	0.002	0.010	0.003	0.005	0.002	0.002	0.003	0.005
Sandwiches and snacks	0.010	0.010	0.010	0.010	-	-	0.010	0.010	0.005	0.005	-	-	0.005	0.005
Soups and broths	0.010	0.010	0.010	0.010	-	-	0.010	0.010	0.005	0.005	-	-	0.005	0.005
Mixed dishes	0.010	0.010	0.010	0.010	-	-	0.010	0.010	0.005	0.005	-	-	0.005	0.005
Dairy-based desserts	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.003
Compotes and cooked fruit	-	-	0.020	0.020	0.100	0.100	0.003	0.003	0.005	0.005	0.007	0.007	0.003	0.003
Seasonings and sauces	0.010	0.010	0.010	0.010	-	-	0.010	0.010	0.005	0.005	-	-	0.005	0.005

Active substance	Prochloraz min	Prochloraz max	Quinalphos min	Quinalphos max	Rotenone min	Rotenone max	Sulfotep min	Sulfotep max	Thiometon min	Thiometon max	Tri-allate min	Tri-allate max	Vinclozolin min	Vinclozolin max
Bread and dried bread products	0.005	0.005	0.007	0.007	-	-	-	-	-	-	-	-	0.005	0.005
Breakfast cereals	0.005	0.005	0.007	0.007	-	-	-	-	-	-	-	-	0.005	0.005
Pasta	0.005	0.006	0.007	0.020	-	-	-	-	-	-	-	-	0.005	0.005
Rice and wheat products	0.005	0.006	0.007	0.020	-	-	-	-	-	-	-	-	0.005	0.005
Croissant-like pastries	0.005	0.005	0.007	0.007	-	-	-	-	-	-	-	-	0.005	0.005
Sweet and savoury biscuits and bars	0.005	0.005	0.007	0.007	-	-	-	-	-	-	-	-	0.005	0.005
Pastries and cakes	0.002	0.005	0.003	0.007	0.002	0.002	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.005
Milk	0.002	0.002	0.003	0.003	0.002	0.002	0.017	0.017	0.002	0.002	0.001	0.001	0.001	0.001
Ultra-fresh dairy products	0.002	0.002	0.003	0.003	0.002	0.002	0.017	0.017	0.002	0.002	0.001	0.001	0.001	0.001
Cheese and butter	-	-	0.007	0.007	-	-	0.017	0.017	-	-	0.001	0.001	0.001	0.001
Eggs and egg products	-	-	0.007	0.007	0.002	0.002	0.008	0.008	0.002	0.002	0.002	0.002	0.002	0.002
Meat, offal, poultry and game	-	-	0.003	0.003	0.002	0.002	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.001
Delicatessen meats	-	-	0.003	0.003	0.002	0.002	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.001
Fish	0.002	0.002	0.003	0.003	-	-	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.001
Crustaceans and molluscs	0.002	0.002	0.003	0.003	-	-	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.001
Vegetables (excluding potatoes)	0.010	0.010	0.020	0.020	-	-	0.020	0.020	0.020	0.020	-	-	0.010	0.025
Potatoes and potato products	0.006	0.006	0.020	0.020	-	-	-	-	-	-	-	-	0.005	0.010
Pulses	0.006	0.006	0.020	0.020	-	-	-	-	-	-	-	-	0.005	0.005
Fruits	0.010	0.010	0.010	0.010	-	-	0.010	0.010	0.010	0.010	-	-	0.005	0.005
Dried fruits, nuts and seeds	0.005	0.005	0.007	0.007	-	-	-	-	-	-	-	-	0.005	0.005
Chocolate	0.002	0.002	0.003	0.003	0.002	0.002	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.001
Sugars and sugar derivatives	0.002	0.002	0.003	0.003	0.002	0.002	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.001
Water	0.0200	0.0200	0.0100	0.0100	-	-	-	-	0.0050	0.0050	-	-	0.0050	0.0050
Hot and cold beverages (excluding water)	0.0200	0.0200	0.0100	0.0100	-	-	-	-	0.0050	0.0050	-	-	0.0050	0.0050
Pizzas, quiches, pastries and cakes	0.002	0.006	0.003	0.020	0.002	0.002	0.017	0.017	0.002	0.002	0.001	0.001	0.001	0.005
Sandwiches and snacks	0.006	0.006	0.020	0.020	-	-	-	-	-	-	-	-	0.005	0.005
Soups and broths	0.006	0.006	0.020	0.020	-	-	-	-	-	-	-	-	0.005	0.005
Mixed dishes	0.006	0.006	0.020	0.020	-	-	-	-	-	-	-	-	0.005	0.005
Dairy-based desserts	0.002	0.002	0.003	0.003	0.002	0.002	0.008	0.008	0.002	0.002	0.001	0.001	0.001	0.001
Compotes and cooked fruit	0.005	0.005	0.007	0.007	-	-	-	-	-	-	-	-	0.005	0.005
Seasonings and sauces	0.006	0.006	0.020	0.020	-	-	-	-	-	-	-	-	0.005	0.005

2.1.2. Additives

The four additives selected were screened for in sampled food matrices in which the use of one or more of these additives had been authorised (Ministerial Order of 2/10/97). The presence of any compounds not in use as an additive was therefore not taken into account in the study. Analyses were performed by the laboratories of the Joint Laboratory Services Unit (SCL) of the General Directorate for Competition Policy, Consumer Affairs and Fraud Control (DGCCRF) and the General Directorate of Customs and Excise (DGDDI).

Annatto (bixin)

Annatto dye consists essentially of bixin. There is no official assaying method, the method used depends on the food matrix.

For crisps, chips and hamburgers, 10 g of sample was extracted with 50 mL of acetonitrile and filtered through a flat filter. This extract was concentrated in a rotary evaporator under vacuum, without evaporating to dryness, in order to preserve the analyte intact (up to about 5 mL). The extract was then made up to a known volume of acetonitrile according to the expected bixin content (between 10 mL and 20 mL). The extracts were then injected into the measuring device to determine the bixin content by high-performance liquid chromatography (HPLC) in reverse phase with a diode array detector, by analysing the absorption spectrum between 300 and 600 nm. Quantification was performed at 480 nm.

Bixin in cheese comes in the form of norbixin. The process began with the transformation of the bixin standard into norbixin using methanolic potash. Then 10 g of the sample was mixed with a sufficient quantity of celite to cause the matrix to fragment. Extraction was then performed with 50 mL of acetonitrile. The extract was filtered through a flat filter and concentrated in a rotary evaporator under vacuum, without evaporating to dryness, in order to preserve the analyte intact (up to about 5 mL). The extract was then made up to a known volume of acetonitrile according to the expected norbixin content (between 10 mL and 20 mL). Finally the extracts were injected into the measuring device to determine the norbixin content by high-performance liquid chromatography (HPLC) in reverse phase with a diode array detector, by analysing the absorption spectrum between 300 and 600 nm. Quantification was performed at 480 nm. Irrespective of the matrix, the LOD of annatto was 1 to 5 mg/kg depending on the initial test performed and the concentration. The calibration standard for each matrix was created from three concentration points. The average yield was 60% and the measurement uncertainty was 15%.

Sulfites

For derivatives of fruits and sugar, and chocolate-based products, the sample was first crushed and homogenised, then 50 g was fed into a distillation apparatus of the Monier-Williams type. Sulfites extracted from the acidified and heated product were transported by nitrogen. The sulfur dioxide obtained was collected and oxidised in the receiving flask with a bubbler tube containing hydrogen peroxide. The solution containing the sulfites formed as sulfuric acid was titrated with a solution of known concentration (0.01 N). The analysis was carried out in duplicate. Additional tests were conducted if the difference exceeded the uncertainty. The LOD was 1 mg/kg. In addition, quality controls were analysed to validate all the analytical results.

For the other products, the sample was first crushed and homogenised, then 20 g was fed into a distillation apparatus of the Monier-Williams type. Sulfites were transported by nitrogen in the acid medium. The sulfur dioxide obtained was collected in the receiving flask with a bubbler tube containing hydrogen peroxide. The solution containing the sulfates formed as sulfuric acid was neutralised to pH 7 with a sodium hydroxide solution of known titre (0.01 N). This final solution was weighed and injected into an HPLC system with anion exchange column. Detection was performed by conductimetry, allowing the quantity of sulfites to be confirmed, according to the previous acid-base determination. The LOD was 1 mg/kg. The calibration standard was created from three concentration points.

For alcoholic beverages, a standard method was used (OIV-MA-AS323-04A). Twenty millilitres of beverage was introduced into a 250 mL flask. Sulfites were transported by nitrogen in the presence of 5 mL of 95% phosphoric acid. The sulfur dioxide obtained was collected in the receiving flask with a bubbler tube containing 2 to 3 mL of hydrogen peroxide to 3 volumes containing an indicator reagent. The solution was neutralised. The sulfuric acid formed was titrated with a sodium hydroxide solution of known concentration (0.01 N). In addition, quality controls were analysed to validate all the analytical results.

Tartaric acid

For fruits, vegetables and cereal products, the sample was first crushed and homogenised, then 20 g was dissolved in water to obtain a final volume of 100 mL. The resulting mixture was filtered and then injected into an HPLC device comprising an anion exchange column. Detection was performed by conductimetry after ion suppression. The LOD was 10 mg/kg. The calibration standard was created from two concentration points.

For fruit derivatives and chocolate-based products, the sample was first crushed and homogenised, then 20 g was dissolved in water to obtain a final volume of 100 mL. The resulting mixture was filtered and then injected into a high-performance capillary electrophoresis (HPCE) device. Detection was performed by UV absorbance at 254 nm. The LOD was 20 mg/100 g. In addition, quality controls were analysed to validate all the analytical results.

Nitrites

The sample was first ground and homogenised, then 10 g was dissolved in warm water containing borax, after stirring, purification and adjustment to a final volume of 100 mL. Assaying was performed on the filtrate obtained from this solution. The nitrite content was determined with a continuous flow analyser using a dialysis membrane. Assaying was performed after the colour reaction on the nitrites using a reaction mixture containing sulfanilamide and N-naphthyl-ethylene diamine at a measurement wavelength of 520 nm. The calibration standard was created from five concentration points. The LOD was 1 mg/kg. In addition, quality controls were analysed to validate all the analytical results.

2.1.3. Acrylamide

Acrylamide was screened for in all the contributors to acrylamide exposure: breads, rusks, breakfast cereals, croissant-like pastries, biscuits, chocolate-based products, potato crisps, sautéed potatoes, chips, soluble coffee, pizza, sandwiches. Analyses were performed by the Organic Pollutants and Pesticides Unit at the ANSES Laboratory for Food Safety (LSA).

Assaying involved grinding the sample, water extraction by Ultra-Turrax, then centrifugation at 9,000 rpm at 0°C. The extract was purified on a Solid Phase Extraction (SPE) cartridge. Ultra-centrifugation at 11,000 rpm at 4°C was performed, followed by purification on a multimode cartridge.

Analysis of extracts was performed by liquid chromatography (Hypercarb column length 50 mm, ID 2.1 mm) coupled with a mass spectrometer equipped with an ESI source (positive ionisation), with the analyser operating in MS/MS mode.

Each sample was first supplemented with acrylamide labelled with a stable isotope (Acrylamide D5). This assaying technique, involving the addition of a labelled internal standard, provides greater accuracy for determining acrylamide in complex matrices.

The method's repeatability was estimated to be 14%, its intermediate precision was 38%, and its measurement uncertainty ± 28%.

2.1.4. Polycyclic aromatic hydrocarbons (PAHs)

PAH analyses were performed on all known or suspected contributors to exposure. They were conducted by the Nantes-Atlantic National College of Veterinary Medicine, Food Science and Engineering (ONIRIS) - Laboratoire d'Etude des Résidus et Contaminants dans les Aliments (LABERCA).

The PAH assay method (Varlet, Serot *et al.* 2007; Veyrand, Brosseaud *et al.* 2007) in solid foods is based on pressurised liquid extraction (Accelerated Solvent Extraction system [ASE]). In this step, florisil is added to the extraction cells to combine the extraction step with a pre-purification step. The extracts are then evaporated in a rotary evaporator and purified using a copolymer (styrene divinylbenzene) SPE column. Finally, the extracts are evaporated under a stream of nitrogen and transferred into vials.

For liquid samples, liquid/liquid extraction is done with an organic solvent (hexane/ethyl acetate mixture). The extracts are then evaporated before being purified on an SPE column. Finally, oil samples are diluted with an organic solvent before being deposited directly on an SPE column.

The final extracts are injected by gas chromatography coupled with tandem mass spectrometry (GC-MS/MS) after electron impact ionisation. Two diagnostic transitions are followed for each compound, enabling unambiguous identification of the different compounds.

The extracts are quantified by isotopic dilution: 14 internal standards labelled ^{13}C are added before the extraction step allowing for the quantification of the analytes with a high degree of accuracy. Fluorinated standards (three fluorinated PAHs) are added before the GC-MS/MS injection making it possible to estimate the extraction yields of each compound in each sample.

The limits of quantification were approximately 0.1 µg/kg fresh weight (FW) for all the compounds, and extraction yields were between 30 and 80%. All data were collected under the ISO 17025 quality assurance system according to an accredited method.

2.2. Calculation of population intakes and exposure

2.2.1. Processing consumption data

The processing of consumption data is described in Report 1.

2.2.2. Processing contamination data

Censored data (values below the limits of detection or quantification) were processed according to World Health Organization (WHO) recommendations (GEMS-Food Euro 1995).

- for items with a censoring rate of less than 60%, the censored data were replaced by an estimate corresponding to a median or middlebound (MB) assumption: concentrations below the LOD (traces) were replaced by 0.5 LOD, and concentrations below the LOQ but above the LOD (called traces) were replaced by 0.5 LOQ;
- for items with a censoring rate of at least 60%, two assumptions were made about concentrations: the low or lowerbound (LB) assumption, and the high or upperbound assumption (UB). The lowerbound assumption corresponds to a scenario in which non-detected values are estimated to be 0 and the values detected, but not quantified, are estimated to be equal to the LOD. The upperbound assumption corresponds to a scenario in which non-detected values are estimated to be equal to the LOD and the values detected but not quantified are estimated to be equal to the LOQ. The LB scenario represents the minimum possible value, and the UB scenario represents the maximum possible value.

To estimate population intakes and exposure, the mean levels of the two seasons sampled were considered for each food, both regionally and nationally, as applicable.

In order to increase the percentage of the diet taken into account when calculating intakes and exposures, mean levels of the same foods, when they had been sampled in other regions, were assigned to foods that had not been sampled in a particular region (therefore, consumed less in this region).

Specific processing of pesticides contamination data

In order to take into account the definition of the residue for the purposes of monitoring and control[1] (Regulation EC/396/2005) and risk assessment, substances were grouped together and adjustments were made using conversion factors for taking into account the compounds' molar weight (Commission of the European Communities 1997). For this, the residual levels of substances included in a given definition of the residue were added up by sample. For example, for assessing the chronic risk associated with dimethoate, the sum of dimethoate levels and three times those in omethoate were considered. These different groupings and adjustments are detailed in Table G2.

Considering all of the substances to be screened for before regrouping (n=325), 67 substances and degradation products were regrouped into 25 substances according to the definition of the residue for the purposes of monitoring and control, and the concentrations (quantified values, LOD and LOQ) of these 25 substances were adjusted according to the residue definition established for the chronic risk assessment. In terms of analytical results: 169,803 analytical results were grouped together and adjusted to 145,829 usable analytical results for 283 substances (Table 1).

Considering only the 64 priority substances, two regroupings of active substances were made (dieldrin with aldrin and dimethoate with omethoate) and 19 substances were adjusted. Following this consolidation, 57,345 analytical results of priority substances (n=62) were available for assessing exposure (Table 2).

(1) Compounds are to be screened as part of the official controls. To facilitate control, the residue definition may be restricted to the main compounds of the residue that are relevant from a toxicological standpoint.

Table 1: Summary of analyses of active substances (n=283) after regrouping/adjustment

Food class	no. of food items	no. of composite samples	no. of pesticides analysed	no. of pesticide – food combinations	no. of analyses
Plant products	87	524	282	14,037	91,781
Animal products	56	484	152	3,176	27,041
Mixed products*	42	189	209	5,217	21,991
Water	9	38	132	1,188	5,016
TOTAL	194	1 235	283	23,618	145,829

* Mixed plant and animal foodstuffs and drinks (excluding water).

Table 2: Summary of analyses of priority substances (n=62) after regrouping/adjustment

Food class	no. of food items	no. of composite samples	no. of pesticides analysed	no. of pesticide – food combinations	no. of analyses
Plant products	87	524	62	3,941	23,540
Animal products	56	484	61	2,810	24,423
Mixed products*	42	189	61	1,769	7,672
Water	9	38	55	405	1,710
TOTAL	194	1235	62	8,925	57,345

* Mixed plant and animal foodstuffs and drinks (excluding water).

Concerning the levels of pesticide residues in drinking water, an additional analysis was done, based on:

- the results of the 2007 monitoring plans of the French Directorate for Health (DGS) for the water distribution system (analyses at the consumer's tap only);
- the results of the 2008 study conducted by the ANSES Nancy Laboratory for Hydrology (LHN) on natural mineral water (LHN 2008);
- the quality limits (QLs) for pesticides in tap water, as defined in the French Public Health Code which establishes regulatory provisions for drinking water (Council Directive 98/83/EC). These QLs are established at 0.1 µg/L for each pesticide (with the exception of aldrin, dieldrin, heptachlor and heptachloroepoxide: 0.03 µg/L) and 0.5 µg/L for all substances measured.

This analysis shows that the QL was exceeded in 2007 in tap water for five substances screened for in TDS 2 (atrazine and its metabolites, diuron, metolachlor, oxadixyl and simazine). For most substances, this QL was from 5 to 100 times lower the analytical limits of TDS 2. In order to avoid underestimating pesticides exposure through water, this QL was considered by default as the mean level(2) for tap water and spring water under the upperbound assumption, except for the five substances cited above and for carbendazim, quantified in a TDS 2 composite sample. Note that no residues were detected in TDS 2 spring water. For atrazine, diuron, metolachlor, oxadixyl and simazine, the censoring processing assumptions described above were applied (analytical limits), as for the other foods. For carbendazim, the QL was applied only to the non-detected samples.

For mineral water, no TDS 2 sample exhibited residues and a single sample from the LHN study showed detection (atrazine-desethyl) for the brands concerned. Consequently, except for atrazine-desethyl, the LOD value was applied for priority pesticides screened for as part of TDS 2.

(2) See conservative method of Theoretical Maximum Daily Intake (TMDI) (WHO, 1997).

2.2.3. Method of calculating dietary exposure

Dietary exposure to each contaminant of interest in the population was calculated individually, for all INCA 2 study subjects, using the following formula:

$$E_{i,j} = \frac{\sum_{k=1}^{n} C_{i,k} \times L_{k,j}}{BW_i}$$

Where $E_{i,j}$ is dietary exposure to contaminant j of individual i, n is the number of foods in this diet, $C_{i,k}$ is the consumption of food k by individual i, $L_{k,j}$ is the level of contaminant j in food k, BW_i is the body weight of individual i.

It should be noted that this calculation method does not consider the intra-individual variability of exposure recorded during the INCA 2 survey week. Indeed, a method that would take this factor into account would be too cumbersome to apply to all of the substances investigated by this study.

2.2.4. Interpretation of results

It is necessary to clarify some points concerning the way the results on intakes and exposure through food are interpreted.

The use of mean concentrations (in composite samples) in the calculations is a realistic and appropriate estimate of intakes and exposure over the long term to the extent that these estimates are compared to health-based guidance values: acceptable daily intake (ADI), tolerable daily intake (TDI), provisional tolerable weekly intake (PTWI), provisional tolerable monthly intake (PTMI), no effect level or benchmark dose limit (BMDL), etc., established by French, European or international scientific authorities.

Health-based guidance values are indices that enable establishment of a qualitative or quantitative relationship between exposure to a chemical substance and its effect on human health. They are specific to an effect, exposure route and duration of exposure. Their establishment and definition differ depending on whether a toxicity threshold or lack of a toxicity threshold is considered.

For substances with a threshold effect, that is, that cause, above a certain dose, damage with severity that is proportional to the dose absorbed, it is possible to define a tolerable daily intake (TDI), provisional tolerable weekly intake (PTWI), or even provisional tolerable monthly intake (PTMI). The acceptable daily intake (ADI)/TDI, PTWI, and PTMI correspond to an amount found in food and drinking water, which can be ingested daily, weekly or monthly, respectively, over a lifetime without incurring an appreciable risk to consumer health.

For substances with no threshold effect, i.e., for which there is a probability, however slight, that a single molecule entering the body would have adverse effects on that body, the amount is defined as a benchmark dose limit (BMDL). The BMDL corresponds to a dose causing, in exposed subjects, an increase of 1, 5 or 10% in the incidence of an adverse effect on health as compared with subjects who are not exposed.

The characterisation of risk consists in comparing dietary exposure, i.e., the amount of a substance that an individual is likely to ingest daily, determined on the basis of their eating habits and amounts of that substance found in foods, to the health-based guidance value. If the health-based guidance value is exceeded, or if the margin between the exposure and the BMDL is small, then a health risk cannot be excluded.

If exceeding of the health-based guidance value is not observed or if the margin between exposure and the BMDL is high with the upperbound assumption (UB), then all risk can be ruled out since it involves a protective scenario that increases concentrations and therefore exposure. Conversely, if exceeding of the health-based guidance value or a small margin between exposure and the BMDL with the lowerbound assumption (LB) is observed, then a health risk cannot be ruled out since it involves a scenario that reduces concentrations and therefore exposure. If the risk can be rejected with the lowerbound but not with the upperbound assumption then it would be best to acquire additional data to make the characterisation more accurate.

Health-based guidance values chosen at the French, European and international levels were given preference. When several agencies had proposed values for risk assessment, the most relevant value (or values, as applicable) was (were) chosen, after consulting ANSES's Expert Committee. Also, some reference values for the assessment have been updated to reflect newly published assessments, compared with those in previous ANSES opinions or reports. In certain cases, no available value was considered to be suitable for the assessment of chronic risk that was part of this study. No new health-based guidance value was calculated during this work. In the case of pesticides, the health-based guidance values (ADI and PTDI) (Tables G2 and G5) came from European databases (EFSA and the European Commission). If several values were available for the same substance, the most recent one, validated at European level (EFSA), was preferred. By default, values that had been validated at international (JMPR) or national level (US EPA) were selected. The choice of the health-based guidance value resulted from the collective expert appraisal led by ANSES.

The theoretical percentages of the population exceeding the health-based guidance values were calculated. It should be noted that the dietary intake and exposure data from which these percentages were calculated are not exhaustive, but cover a representative sample of the French population (INCA 2), and not the population as a whole. Accordingly, these estimates are meaningful only if accompanied by the confidence intervals (at 95%) on which their risk assessment was based.

It is important to note that it is not possible to assess intakes and acute exposure within the framework of this study, at a time t, but 'background levels' and chronic intakes and dietary exposure can be assessed. It also does not allow for assessing intakes or exposure by other routes (respiratory, dermal, etc.), or due to special situations such as contamination of foods by the local environment, taking of dietary supplements, specific cooking/preparation methods or practices (barbecue for example) or special diets (enriched or organic diets, for example). Moreover, the potential cumulative effects of various substances were only taken into account in the risk assessment when toxicological data were available (as was the case with PAHs, for example).

For certain chemicals, discrepancies can be observed when compared with previous results, therefore, it would be advisable to conduct further studies or methodological work, for example, to improve understanding.

Risk characterisation for all substances studied, after consulting the expert committees, has been divided into four categories:

- risk that can be excluded for the general population;
- theoretical risk that cannot be excluded with certainty, especially for substances assessed as exceeding health-based guidance values according to the upperbound assumption (UB) only, i.e. the scenario which increases concentrations and therefore exposure;
- risk that cannot be excluded for the general population or specific population groups;
- risk that does not lead to a conclusion about the risk itself or about the coverage of requirements, particularly for substances that do not have robust health-based guidance values (in this case, refer to the fact sheets for more information).

The classification of these substances in one of these categories took several factors into account, namely the results of exposure in adults and children, the margin between dietary exposure and the reference value, the substance's toxicity, its critical populations and effects, knowledge of its levels in foods or exposure derived from other studies or the literature.

2.2.5. Presentation of results

The results are presented in sections, one for each family of substances studied. In each section, the results are described in the form of fact sheets that summarise the risk assessment along with the hazard assessment and characterisation, then exposure assessment and risk characterisation, accompanied by recommendations as applicable.

The first part includes some background knowledge on the item. For the other components, the ADI, TDI, TWI or TMI is given, if any.

In the second part, the results of intakes and exposure are presented for the entire French population, for adults (18 years and older) and children (3 to 17 years). All the estimates were calculated using weighted data. The main contributors to exposure are identified for the two population sub-groups, usually at the level of food groups, but also in terms of the individual food, when that proves to be relevant. The exposure values (mean and 95th percentile) are compared to the reference values for all of the items studied, which are presented in the first part. The theoretical percentages for populations of adults and children exceeding the health-based guidance values are also given, along with their confidence interval at 95%. Lastly, the predominant foods or groups

contributing (on average) to total exposure are listed. For substances for which the non-detection rate was considered to be significant, only contributors to exposure for the lowerbound (LB) assumption are presented in the text. Indeed, according to the upperbound (UB) assumption, the contributions are theoretical and largely dependent on analytical limits. A food group for which the LOD is high may appear to be a major contributor even though the substance was not actually detected, and might be detected in other food groups. Thus the interpretation of contributions using the upperbound assumption is itself more tenuous. Nevertheless, all the contributions are presented in the tables (see below).

The summary tables show all of these results. For each food group analysed, or sub-group as applicable, the mean composition and contamination are provided in the standard unit of measure for each item (specified in each instance), along with the total number of samples. For items for which the censoring rate was at least 60%, both concentration assumptions are given: the lowerbound (LB), and the upperbound (UB). Nationally, the concentration averages were calculated as follows: first, for a given sample, the mean concentration of both rounds of sampling was calculated; then, for each food item, the mean concentration of the different regions – provided the food is regional -- was calculated; and finally, the mean concentration of the food group (or sub-group, if appropriate) was calculated. These last means are presented in the tables. The type of food is also specified, with 'N' indicating national foods, and 'R' indicating regional foods. It should be noted that these average concentrations are given primarily for information purposes and that care should be taken when comparing these data with that from other sources. Indeed, while each of the study samples is representative of the consumption of the food (consumed in one region, if this is the case), the whole sample is not itself representative of the dietary consumption, i.e., the means provided have not been weighted by the consumption of each sample or each food, and foods that were infrequently consumed but known as being major contributors to exposure to the substances in question were included in the sampling (see 3.2.2, Report 1).

The mean results for exposure are also shown in the tables, for adults and children, as well as the 95th percentile for consumers of groups of products listed in the tables. The proportion of the mean contribution (as a %) of each food or food group to total intake or exposure is indicated. Both the upperbound and lowerbound assumptions may be provided, as applicable.

Appended to each report, the intake and exposure results (means, 95th percentile and dietary contributions) are shown for the following population sub-groups, at the national level: children aged 3 to 6 years, 7 to 10 years, 11 to 14 years, 15 to 17 years, adults 18 years and older, women of childbearing age (18 to 44 years), and the elderly (65 years and over).

The regional results are not shown, and will be analysed later.

3. Pesticide residues

This first TDS on pesticide residues is the final phase of the methodological approach applied since 2005 by ANSES as part of the action plan of its Observatory on Pesticide Residues (ORP) (Nougadère, Reninger *et al*. 2011). This approach aims to refine the assessment of chronic exposure using increasingly accurate contamination data: from maximum residue limits (MRLs) or results of surveillance plans for unprocessed foods, to levels of contamination in processed foods and meals. Analysis of food as consumed is important as the preparation (including peeling, washing, heating, etc.) is known to play a key role in lowering residue levels (Schattenberg, Geno *et al*. 1996).

Priority substances considered in the context of this TDS 2 are either substances that fall within the scope of Directive 91/414/EEC or older pesticides now considered as persistent organic pollutants (POPs).

Of the active substances within the scope of Directive 91/414/EEC, only those listed in Annex 1 of this Directive are authorised in the European Union. They may then be used alone or in combination as the active constituent of a proprietary plant protection product. Marketing authorisations for proprietary plant protection products are issued in each Member state. The priority substances in this study are plant protection products said to be 'already in existence' when Directive 91/414/EEC came into force. These are fungicides or insecticides, or more rarely herbicides, available on the market before 1991 and used in agriculture for decades. Most priority substances screened for were subject to a decision of non-inclusion in Annex 1 before 2007, and are therefore no longer authorised in Europe. However, active substances withdrawn after 2004 may potentially have been used in the EU during the TDS 2 sampling period (2007-2009) considering the legal phasing-out period of up to two years.

The POPs listed in the Stockholm Convention mainly concern first-generation organochlorine pesticides. DDT was the first insecticide developed in the 1940s, followed by lindane, aldrin, dieldrin, endrin, heptachlor and endosulfan. The group of HCHs is composed of five isomers but only lindane has insecticidal properties (Liliana 2007; Regnault-Roger and Philogène 2005). The group of cyclodienes mainly includes chlordane, aldrin, dieldrin, endosulfan, heptachlor and mirex. These compounds have mainly been used to control soil pests and termites (Liliana 2007; Regnault-Roger and Philogène 2005). Although most of these substances have not been used in agriculture in Europe since 1981 (Directive 79/117/EEC), non-agricultural uses continued until 2004. These substances are highly resistant to degradation and are particularly harmful to ecosystems and human health. POPs bioaccumulate in living organisms, especially in adipose tissue, the liver and the central nervous system, are transported *via* air, water and migratory species and accumulate in terrestrial and aquatic ecosystems. Therefore, action is mainly taken at an international level (European Union 2010).

Adopted by 150 governments, including the European Member States and the Council of the European Union, the Stockholm Convention on POPs provides an international legal framework aimed at guaranteeing the elimination of these substances under safe conditions and prohibiting them (UNEP 2001; European Union 2010). The Convention came into force on 17 May 2004 and regulatory provisions have been introduced at international and European level to prohibit the production and use of 12 POPs identified by the United Nations Environment Programme (UNEP), including nine older pesticides (Decision 2006/507; Regulation 850/2004/EC).

The convention notably follows on from the Aarhus Protocol on POPs signed in June 1998 by the European Community under the Geneva Convention on long-range transboundary air pollution (European Union 2010). The Aarhus Protocol covers 16 POPs, 12 of which are listed in the Convention (including nine pesticides).

Within the TDS 2, ten POPs considered a priority in 2006 by the ORP were screened for, i.e.:

- eight POPs initially listed in the Stockholm Convention: aldrin, chlordane, DDT, dieldrin, endrin, heptachlor, toxaphene and hexachlorobenzene;
- two POPs listed only in the Aarhus Protocol in 2006 and then listed in the Stockholm Convention in May 2009: technical HCH and lindane.

When reading the data sheets, caution should be exercised when interpreting cases of health-based guidance values being exceeded under the upperbound (maximum) assumption alone. Indeed, exposures were not estimated on the basis of theoretical dietary contributors alone, but from all available analytical results, including theoretical non-contributors. Therefore exposure calculated according to the upperbound (UB) assumption is often overestimated. This overestimation may be all the more extreme since analytical limits for these non-contributors are often on the high side. Therefore, cases where the health-based guidance values are exceeded under the UB assumption but not under the lowerbound (LB) assumption do not establish the existence of a risk, and should undergo additional tests to better define the estimated exposure.

Conversely, results where the health-based guidance value are not exceeded under the UB assumption do mean that any risk for the consumer can be ruled out. Only cases where health-based guidance values are exceeded under the LB assumption merit attention in terms of potential risk and should lead to corrective actions by risk managers in order to ensure consumer safety.

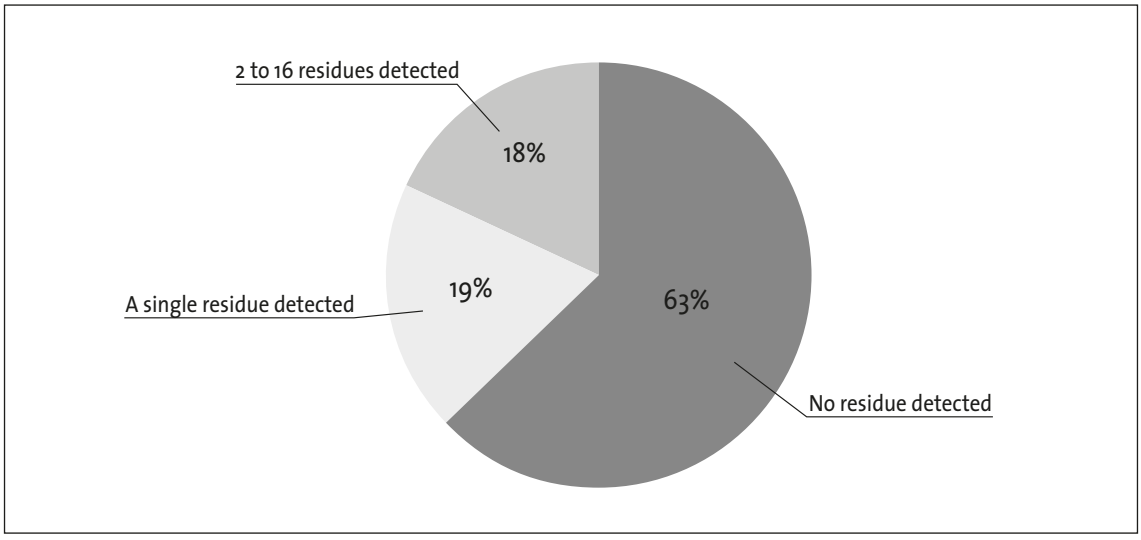
3.1. Overall results

3.1.1. Test results

Levels of censoring

Considering all 283 active substances screened for, 99.3% of test results were associated with residual levels below the LOD and 0.47% with quantified levels. Among the 1235 composite samples analysed, 37% presented at least one detected residue (Figure 1) and 30% at least one quantified residue.

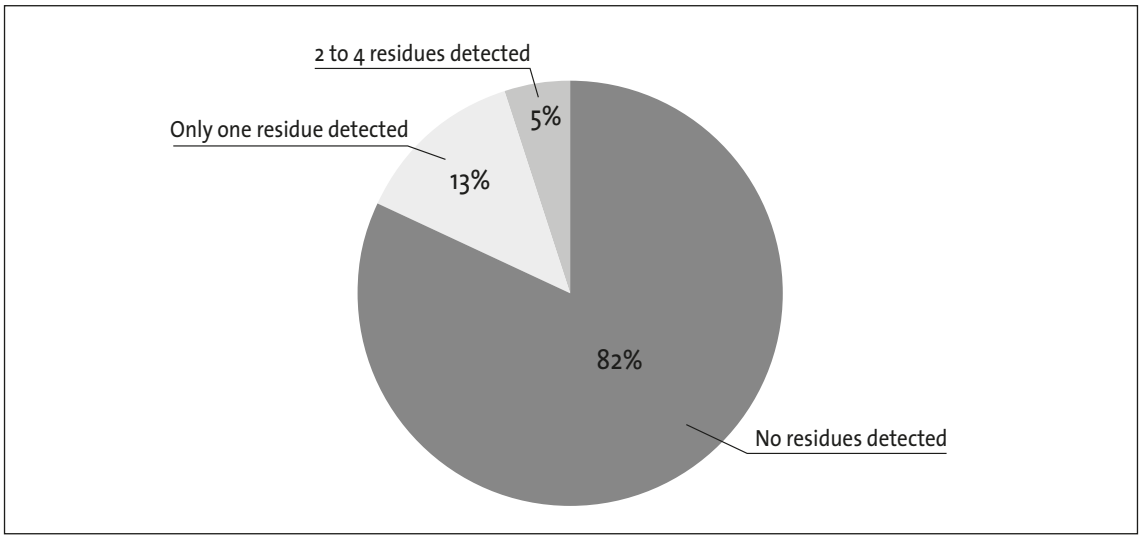
Figure 1: Percentage of composite samples with residues detected (all substances)



Among the 463 samples detected, 50% contained only one substance, 41% from two to five substances, 8% from six to ten substances and 1% contained more than ten substances. A maximum of 16 substances were detected in a single composite sample.

Considering only the 62 priority substances, 99.5% of test results were associated with residual levels below the LOD and 0.33% with quantified levels. Among the 1235 samples analysed, 18% presented at least one detected residue (Figure 2) and 12.5% at least one quantified residue.

Figure 2: Percentage of composite samples with detected residue (priority substances)



Substances detected and relevant foods

Out of all the substances, 73 (26%) were detected, including 55 (19%) quantified at levels ranging from 0.003 mg/kg (chlorpyrifos-ethyl in a composite sample of merguez sausage) to 8.7 mg/kg (sulfur in a composite sample of salads). Among the 194 food items analysed, 100 had at least one residue detected in a sample. The frequencies of detection are presented by substance and by substance-food group combination respectively in Tables G3 and G4.

Among the priority substances, 26 (42%) were detected of which 19 (31%) were quantified at levels ranging from 0.003 (chlorpyrifos-ethyl in merguez sausage) to 3.5 mg/kg (iprodione in salads). Among the 194 food items analysed, 80 had residues detected at least once in a sample. In total, 139 substance-food combinations were involved. The priority substances most frequently detected were organophosphate insecticides and fungicides (carbamate, dicarboximide, imidazole). These substances were found as often in raw foods as in cooked and processed ones. Six were detected in more than 1% of samples analysed (Table 3). These six substances included the insecticides pirimiphos-methyl and chlorpyrifos-methyl (authorised mainly for post-harvest treatment of cereal grains), and chlorpyrifos-ethyl (authorised in fruit and vegetable crops and as a biocide); and three fungicides: iprodione, imazalil and carbendazim (authorised in fruit and vegetable crops). All these substances are listed in Annex 1 of Directive 91/414/EEC. Carbendazim alone is no longer authorised at the national level (withdrawal of corresponding proprietary products under the Ecophyto 2018 action plan) but it is also a metabolite of an authorised active substance, thiophanate-methyl, included in the risk assessment of carbendazim (Table G2).

Table 3: Active priority substances with a detection frequency higher than 1%

Active priority substance	Type	No. composite samples analysed	% samples with residue(s) detected	% samples with quantified residues	No. different foods with residue(s) detected	Food groups with residue(s) detected
Pirimiphos-methyl	I	1235	7.2	5.3	45	Cereals, wheat-based products, rice, vegetables, soups
Iprodione	F	1235	3.9	3.7	14	Fruits and vegetables, wine, hamburgers
Chlorpyriphos-ethyl	I	1235	3.4	1.1	11	Fruit and vegetables, merguez sausage
Chlorpyriphos-methyl	I	1235	2.3	0.9	17	Cereals, fruit and vegetables, wheat-based products, rice
Carbendazim	F	1143	1.3	0.7	5	Fruit, water
Imazalil	F	1072	1.1	0.7	10	fruit and fruit juices, potatoes

I: insecticide, F: fungicide

MRLs exceeded

The MRL is not a toxicological limit. Therefore, if it is exceeded, this does not necessarily pose a risk to human health. MRLs are set at EU level by the European Commission and at international level by Codex Alimentarius, for purposes of monitoring compliance of 'unit' samples (surveillance plans). MRLs are not defined for composite samples, which are likely to be a dilution of potential residual levels. Therefore, the analysis below should be considered as a guide and complementary to risk characterisation, in particular by informing discussion on substances exceeding the health-based guidance value. The EU MRLs used in this study were derived from (EC) Regulation No 396/2005, which came into effect on 1 September 2008. At the end of sampling, 171,770 MRLs were defined for 445 active substances and 386 foodstuffs and food groups.

Excluding piperonyl butoxide (not considered a plant protection substance within the meaning of Directive 91/414/EEC and for which no EU MRL has been defined), 27 composite samples (2.2% of samples analysed) had at least one exceeded MRL for the corresponding raw foods (see Article 20 of Regulation 396/2005/EC) or exceeded quality limit (QL) for the water in beverages:

- 20 samples of foods of plant origin;
- 2 samples of foods of animal origin;
- 4 mixed samples (animal and plant foods);
- 1 sample of tap water.

When cases of exceeded MRLs are observed, the origin of the products (country of production) is unknown, and the same sample, because of the way samples are selected, is likely to include products of different origins. Exceeded MRLs were observed for 10 active substances, including seven priority ones.

Substances authorised in Europe (listed in Annex 1):

- carbendazim* in tap water (quantified value of 7 µg/L higher than the LOQ of 0.1 µg/L). National agricultural usage was withdrawn in 2008;
- chlorothalonil* in a sample of fresh radish (quantified value three times the MRL). National use is still authorised on vegetable and cereal crops;
- chlorpropham in a sandwich sample (quantified value five times the MRL). National use is still authorised as a potato anti-sprouting agent and vegetable crop herbicide. No exceeded MRLs were observed for potato-based foods (MRL=10 mg/kg);
- chlorpyrifos-ethyl* in merguez sausage (quantified value 1.3 times the MRL). In France, use is still authorised as an insecticide in soil treatment or leaf treatment of fruit and vegetable crops, on vine crops, and as a biocide (livestock premises and transportation equipment);
- dimethoate* in a sample of endives (quantified value 1.2 times the MRL), a crop for which some use is still permitted (notably for the endive fly);
- orthophenylphenol (OPP) in 17 composite samples of fruit and vegetables (raw or processed/cooked) and foods made from wheat flour (quantified values between 1.1 and 7 times the default MRL of 0.01 mg/kg). Note that the only EU MRL existing at the time for OPP as a citrus fruit preservative (12 mg/kg) was not exceeded (Directive 95/2/EC). EU MRLs came into force on 1 January 2011 (Regulation 304/2010/EC). The OPP is authorised for use as a fungicide in post-harvest treatments of citrus fruit and pears.

Substances unauthorised in Europe (not listed in Annex 1):

- carbofuran* in a sample of fresh radish (quantified value 10 times the MRL). National use on vegetable crops was withdrawn in December 2008;
- endosulfan* in fresh strawberries (quantified value 1.4 times the MRL);
- lindane* in a sample of chicken (quantified value 20 times the MRL);
- procymidone in samples of spinach and lentils (quantified values 3.5 times the MRL).

In order to better understand these exceeded MRLs, one must take into account processing factors relating to processed food (not raw commodities), due to be published soon (Regulation (EC) no. 396/2005).

3.1.2. Risk Assessment and Characterisation

Among the 283 substances investigated, 254 including 62 priority ones had a chronic health-based guidance value validated at EU (European Food Safety Authority (EFSA)) or international (Joint FAO/WHO Meeting on Pesticide Residues (JMPR)) level, or by another health agency (ANSES, US EPA, TGA). This may be an acceptable daily intake (ADI) or provisional tolerable daily intake (PTDI). For the sake of clarity, in the following text, we refer to health-based guidance values. The risk characterisation was only conducted on these 254 substances. For the 29 other substances, no risk characterisation was performed.

These 29 substances without an ADI (screened for here in the context of multi-residue methods) were not detected either in foods as consumed (TDS 2) or in unprocessed plant- and animal-based foods (2008 surveillance plans of the authorities). In tap water (DGS surveillance plans), only anthraquinone was detected (0.35% of analyses in 2009, 0.19% in 2008 and 0.11% in 2007). This is a repellent whose use as a plant protection substance was withdrawn in Europe in 2008. These 29 substances without an ADI include:

- 22 former[3] active plant protection substances prohibited in Europe (18 not listed in 2002 in Annex 1 of Directive 91/414/EEC, one non-registered in 2008, two not mentioned in the Directive and one prohibited in 1987 before the Directive came into force);
- six metabolites and degradation products not included in the residue definition for substances screened for or not in the TDS 2;
- a biocide used as a wood preservative (2,4,6 tribromophenol).

These substances (excluding metabolites) could not be evaluated for two main reasons:

- no ADI has been proposed at European (EFSA, Member States) or international (JMPR, EPA) level: bioallethrin, chlormephos, cyanophos, desmetryn, di-allate, dichlofenthion, dienochlor, dioxacarb, ditalimfos, fenson (fenizon) furalaxyl, isazofos, monalide, tetrasul, tribromophenol (2,4,6);
- no ADI could be established due to incomplete or inadequate toxicological data: allethrin, anthraquinone, chloropropylate, cyanofenphos, formothion, nitrofen, trichloronat.

Coverage of the diet theoretically contributing to exposure

Any food that has an MRL above the LOQ is considered a theoretical dietary contributor to intake of a given pesticide. For substances only having default MRLs, the overall diet is considered to be a contributor. For any given substance, the rate of coverage of the diet theoretically contributing to exposure corresponds to the ratio between the theoretically contributing diet included in this study and the total theoretically contributing diet.

For half of the 254 substances evaluated (74% of priority substances), the rate of coverage of a theoretically contributing diet was above 80% (Table G2). This means that the exposure estimate is satisfactory, especially for priority substances on which tests were performed for the 194 foods in the study.

Sixteen priority substances had coverage rates for the theoretically contributing diet at below 80%: aldicarb, biphenyl, carbetamide, cyhexatin, diquat, disulfoton, dithiocarbamates, fenbutatin oxide, fenpropimorph, naled, ofurace, oxydemeton-methyl, rotenone, sulfotep, thiometon and triallate. For these substances, the rate ranged from 27% (naled) 75% (fenpropimorph). There are two main reasons for these low to medium rates: analytical barriers (ultimately non-validated methods for certain matrices and/or unsatisfactory test results following internal quality control) and to a lesser extent the sampling strategy (foods not sampled). Thus, some substances could be screened for only in foods of animal origin (carbetamide, cyhexatin, diquat, fenbutatin oxide, ofurace, rotenone and triallate), and others only in certain vegetable and/or beverage matrices (naled and biphenyl). Other substances, screened for in matrices of animal origin, could be screened for only in a limited number of plant foods or beverages (aldicarb, disulfoton, dithiocarbamates, fenpropimorph, oxydemeton-methyl, sulfotep and thiometon).

(3) Substances said to be 'in existence' before the entry into force of Directive 91/414/EEC. Note that some of these plant protection products may also be used as biocides, listed in the European Union and in France (allethrin, bioallethrin). Therefore, given their prohibition as a plant protection substance and lack of detection in foods, these substances must be screened for as a priority in terms of dermal exposure and inhalation. For these substances, some manufacturers of plant protection products (notifiers) did not voluntarily submit an application for inclusion in Annex 1 before 2003 for various reasons (high cost of 'support', adverse toxicological, ecotoxicological or environmental profiles, etc.).

Main foods contributing to exposure

Under the LB assumption, mostly affected by quantified detection and results, the main contributors varied depending on the substance and the type of associated usages. For example, for post-harvest organophosphate insecticides (pirimiphos-methyl, chlorpyrifos-methyl), the main contributors were cereals and wheat-flour based products such as bread, pasta, croissant-like pastries, breakfast cereals, rice and wheat products, sweet and savoury biscuits and bars, as well as pizzas, sandwiches and mixed dishes.

According to the UB assumption of contamination, affected mainly by analytical limits, the foods most contributing to exposure (more than 10% of total intake) were most frequently vegetables and beverages including fruit juices. These high theoretical contributions are linked to relatively high LOD values (Table G1) and to a significant level of beverage consumption (AFSSA 2009).

Risk characterisation

Table G2 shows the results of exposure and the likelihood of exceeding the health-based guidance value in adults and children. Of the 254 active substances assessed, 228 (90%) did not exceed the health-based guidance valuein children or adults, regardless of which contamination assumption was considered.

Considering only the 62 priority substances, 44 (71%) did not exceed the health-based guidance value in children or adults, regardless of which contamination assumption was considered.

Under the LB contamination assumption, only dimethoate (including omethoate in its residue definition) had a non-zero probability of exceeding the ADI (0.4% in adults and 0.6% in children) for heavy consumers of cherries (see Dimethoate data sheet). For this substance, a chronic risk to the consumer cannot be ruled out. Exceeded values under the LB assumption are explained by a low ADI (1 µg/kg bw/d) and a residue definition for risk assessment that includes a high adjustment factor for omethoate (x3) (EFSA 2006f). Exceeded values under the UB assumption were related to relatively high test limits for certain food groups (vegetables, beverages).

Under the UB contamination assumption, 26 substances (including 18 priority ones) had a non-zero probability of exceeding the health-based guidance value in children and/or adults. With the exception of dithiocarbamates, all these substances are insecticides from three chemical classes:

- carbamates: carbofuran;
- organochlorines (POPs): aldrin/dieldrin, endrin, HCH, heptachlor, mirex and toxaphene;
- organophosphates: diazinon, dimethoate/omethoate disulfoton ethoprophos, iodofenphos, mecarbam, methamidophos, methidathion, mevinphos, monocrotophos, oxydemeton-methyl, parathion, methyl parathion, phorate, phosphamidon, pirimiphos-ethyl, and prothiophos quinalphos.

Of these 26 substances, only three have actually been detected in foods as consumed: carbofuran, diazinon and dimethoate. The lack of detection for the other substances may be due to a dilution of potential residual levels related to the composite nature of the sample and the relatively high analytical limits for certain matrices.

Exceeded health-based guidance values under the UB assumption can mainly be explained by:

- particularly low health-based guidance values, ranging between 0.033 µg/kg bw/d (toxaphene) and 7 µg/kg bw/day (dithiocarbamates), while the health-based guidance values that were not exceeded for substances (UB) ranged from 0.4 to 1500 µg/kg bw/day;
- relatively high LODs for some substance-matrix combinations and in particular for foods consumed in large quantities, such as non-alcoholic beverages for children and coffee for adults, accounting for respectively 10% and 11% of the daily food intake (AFSSA 2009). For drinks, the LOD varied from 0.0005 to 0.02 mg/L. The relatively high LODs (0.01 to 0.02 mg/L) contributed significantly to increased exposure under the UB assumption.

It is important to remember that this upperbound greatly overestimates chronic exposure. Consequently, it is not possible to draw a conclusion as to chronic risk for these substances on the sole basis of these results. In order to better interpret these cases, hypotheses may be formulated regarding the possibility of finding these substances in foods as consumed, on the basis of authorised uses and the surveillance results available in Europe in unprocessed foodstuffs.

Considering the regulatory status, note that only dithiocarbamates (with the exception of zineb), ethoprophos and dimethoate are included in Annex 1 of Directive 91/414/EEC and their use is still authorised. The other substances were:

- either not authorised in Europe during the TDS 2 sampling (2007-2009) for the majority of the substances (not included in Annex 1 before 2005, since a two-year inventory depletion period is generally allowed for after non-inclusion in Annex 1);
- or authorised in Europe during the sampling (not included in Annex 1 after 2005): carbofuran, diazinon, methamidophos and oxydemeton-methyl;
- or POPs under the Stockholm Convention.

The following analysis, relating to the 25 substances for which the health-based guidance values were exceeded only under the upperbound (UB) assumption, is based on the results of the 2008 surveillance programmes for pesticide residues in unprocessed agricultural foodstuffs and tap water:

- from the 27 Member States for foodstuffs of plant origin (EFSA 2010a);
- from the General Directorate for Competition Policy, Consumer Affairs and Fraud Control (DGCCRF) for foodstuffs of plant origin in France;
- from the General Directorate for Food (DGAL) for foodstuffs of animal origin in France;
- from the General Directorate for Health (DGS) for tap water in France.

Among the 25 substances for which the health-based guidance value was exceeded for the upperbound assumption only, 20 were detected at least once in Europe, of which 15 were detected in France. In drinking water in France, only one of these substances was detected (carbofuran).

Case of substances for which the health-based guidance value was exceeded for the upperbound assumption only

Case no. 1: substances included in Annex 1 (Directive 91/414)

Dithiocarbamates (see data sheet)

The ADI was exceeded in 0.4% of children for the upperbound assumption only. The substance was not detected in any of the 95 food items that were analysed. The coverage rate of the theoretically contributing diet was 60% for adults and 70% for children (Table G2). In order to put the low levels by which the ADI was exceeded into perspective, it should be noted that the ADI considered here was that of propineb. That said, this is the lowest ADI for all the dithiocarbamates (DTCs), whereas the ADI for the compounds that are most commonly used in agriculture (maneb and mancozeb) is seven times higher.

DTCs are authorised for use in France on fruit and vegetable crops (mancozeb, maneb, thiram) and in vineyards (propineb). In the framework of the Member States' 2008 surveillance programmes and the European coordinated programme, DTCs were detected in 11.4% of the analysed fruit and vegetable samples and in one cereal sample (EFSA 2010a). In France in 2008, they were detected in 6% of the analysed fruit samples (seven crops) and in 19% of the vegetable samples (27 crops), and particularly in salads, leafy vegetables and herbs (respectively 28% and 26% of analyses).

The lack of detection in fruits and vegetables in TDS 2 was very likely due to a dilution of potential residual levels related to the composite nature of the sample and to relatively high LODs, particularly for fruits (up to 0.2 mg/kg), which were the main contributors to exposure in children for the upperbound assumption (18%). Consequently, in light of analytical uncertainties, it is recommended to undertake new analyses that use more sensitive analytical methods (GC-MS or even LC-MS), primarily for the main theoretical contributors such as fruits and vegetables (lowering the analytical limits by a factor of 100). It is also recommended to include assaying for ethylene thiourea, a major metabolite found in heated foods. It is also necessary to considerably improve the coverage rate of the contributing diet by testing for DTCs in more complex matrices (sandwiches, beverages).

Ethoprophos

For the upperbound assumption only, the ADI was exceeded in 3.6% of adults and 6.1% of children. The substance was not detected in any of the 132 foods that were analysed, which covered 97% of the theoretically contributing diet (Table G2).

This nematicide and insecticide substance has been used since 1966 for soil treatment in a wide variety of cultivated species. It was included in Annex 1 of Directive 91/414/EEC in 2007. In France, uses are authorised for

potatoes and for certain tropical crops (pineapple, banana). In the framework of the European Union Member States' 2008 surveillance programmes, the substance was detected in 17 fruit and vegetable samples (39,322 analyses) (EFSA 2010a). In France in 2008, the substance was detected in vegetables and particularly in lettuce and similar products (0.5% of analyses).

The lack of detection in vegetables in TDS 2 may have been due either to an actual absence of the substance, or to a dilution of potential residual levels related to the composite nature of the sample and/or to a relatively high LOD for vegetables (up to 0.02 mg/kg), fruits (0.01 mg/kg) and beverages (up to 0.01 mg/kg), the main theoretical contributors to exposure for the upperbound.

Consequently, considering that there are authorised uses in Europe and cases of detection in unprocessed vegetables, it is recommended to undertake new, more sensitive analyses in vegetables as consumed (fresh and processed), with lower analytical limits (by a factor of at least 10).

Case no. 2: substances not included in Annex 1 (Directive 91/414) after 2005

Carbofuran (see data sheet)

For the upperbound assumption only, the ADI was exceeded in 30% of adults and 45% of children. These cases were mainly due to a relatively low ADI for carbofuran (0.15 µg/kg bw/day) and relatively high analytical limits for vegetables. Out of the 180 analysed foods, only one radish sample had a quantified level of 0.22 mg/kg (the MRL was exceeded by 0.02 mg/kg) (Tables G3 and G4). The coverage rate of the potentially contributing diet was 89% for adults and 86% for children (Table G2).

An insecticide, nematicide and acaricide substance that has been used on numerous crops since the 1960s, it was not included in Annex 1 of Directive 91/414/EEC in 2007. In France, the corresponding uses were authorised until December 2008, or towards the end of the TDS 2 sampling. Also note that benfuracarb, an active substance that metabolises into carbofuran and hydroxycarbofuran (not tested in this study), had authorised uses in vegetable crops during the sampling.

As a comparison, in the Member States' 2008 surveillance programmes, the substance or its metabolite 3-hydroxy-carbofuran was detected in 78 fruit and vegetable samples (36,955 analyses), with non-conformities mainly identified in bell peppers, chilli peppers, coriander and beans from Thailand and the Dominican Republic (EFSA 2010a). In France, the substance or its metabolite was detected in tap water (0.07% of analyses), in mandarins and lemons (respectively 3.3% and 5% of analyses) and in one lettuce sample.

Consequently, in light of the analytical uncertainties and cases of detection in the framework of surveillance plans, it is recommended to undertake new analyses that use more sensitive analytical limits (by a factor of at least 10), mainly for the main theoretical contributors (vegetables and beverages).

Diazinon (see data sheet)

For the upperbound hypothesis only, the ADI was exceeded in 10% of adults and 28% of children. Out of the 193 analysed foods, only one merguez sausage sample had detected trace residues (Tables G3 and G4). Diazinon was authorised in the control of carrot flies, which attack cumin, one of the major ingredients in merguez. It is also authorised as a biocide (control of arthropods in houses and farm buildings) and as a veterinary antiparasitic for external use (pets and farm animals). The coverage rate of the theoretically contributing diet was 90% for adults and 87% for children (Table G2).

The substance was not included in Annex 1 of Directive 91/414/EEC after its assessment (Decision 2007/393). In France, the last date on which it could be used was 1 December 2008 (MAP 2007a). In the framework of the Member States' 2008 surveillance programmes and the European coordinated programme, the substance was detected in 125 fruit and vegetable samples (55,968 analyses) (EFSA 2010a). In France, the substance was detected in three samples (pears, artichokes and cow's milk).

The lack of detection in fruits and vegetables in TDS 2 was very likely due to a dilution of potential residual levels related to the composite nature of the sample and to relatively high LODs for vegetables (up to 0.02 mg/kg), which were the main theoretical contributors to exposure for the upperbound. For fruits, the LODs were satisfactory (0.003 mg/kg).

Consequently, considering that the substance was detected in unprocessed vegetables in the surveillance plans, it is recommended to undertake new, more sensitive analyses in vegetables as consumed (fresh and processed), with lower analytical limits (by a factor of 10).

Methamidophos

For the upperbound assumption only, the probability of exceeding the ADI was 0.6% in adults and 1.2% in children. The substance was not detected in any of the 132 foods that were analysed. The coverage rate of the theoretically contributing diet was 86% for adults and 81.5% for children (Table G2).

This substance has been used since 1970 as an insecticide and acaricide on a wide variety of cultivated species (Tomlin, 2006). It was not included in Annex 1 of Directive 91/414/EEC after its reassessment in 2006. In France, uses were authorised until 2007. In the framework of the European Union Member States' 2008 surveillance programmes and the European coordinated programme, it was detected in 56 samples of carrots, spinach, potatoes and cucumbers (the MRL was exceeded in 0.2% of subjects), out of 49,156 fruit and vegetable analyses (EFSA 2010a). In France, the substance was detected only in one lettuce sample (out of 757 analyses).

The lack of detection in vegetables in TDS 2 was very likely due to a dilution of potential residual levels related to the composite nature of the sample and to relatively high LODs for vegetables (up to 0.05 mg/kg), which were the main contributors to exposure for the upperbound (17% in adults and 22% in children).

Consequently, it is recommended to undertake additional analyses in fresh, cooked and processed vegetables, lowering the analytical limits (by a factor of 10).

Oxydemeton-methyl (see data sheet)

For the upperbound assumption only, the ADI was exceeded in 0.6% of children. The substance was not detected in any of the 88 foods that were analysed. The coverage rate of the theoretically contributing diet was 75% for adults and 63% for children (Table G2).

A systemic insecticide used on fruit, vegetable and cash crops, particularly to control aphids and other biting and sucking insects, the substance was not included in Annex 1 of Directive 91/414/EEC in 2007. In France, uses were authorised until November 2008 on beets, pears and apples (E-phy 2010). In the framework of the European Union Member States' 2008 surveillance programmes and the European coordinated programme, out of 30,918 fruit and vegetable analyses, the substance was detected in only one French apple sample (EFSA 2010a).

Consequently, considering a very low probability of exceeding the ADI in children but possible presence in fruits and vegetables from third countries, it could be recommended to undertake new analyses with lower analytical limits (by a factor of 10) for a wider range of theoretically contributing foods (namely fruits and fruit juices).

Case no. 3: substances not included in Annex 1 (Directive 91/414/EEC) before 2005

Disulfoton

For the upperbound assumption only, the ADI was exceeded in 9.3% of adults and 8.5% of children. The substance was not detected in any of the 69 foods that were analysed. The coverage rate of the theoretically contributing diet was 70% for adults and 65% for children (Table G2). Note that for analytical reasons the substance was not tested in bread or in products made with wheat flour, and that with the exception of ultra-fresh dairy products, the analysis results in foodstuffs of animal origin were considered unsatisfactory (see Method).

Disulfoton is a systemic insecticide and acaricide that has been used since 1956 (Tomlin 2006), and it was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2002. In France, uses were authorised until 2003. In the framework of the 2008 surveillance plans, the substance was detected in five beef samples (out of 1,435 analyses). This may have been due to the substance's lipophilic character (Footprint-PPDB 2010).

Consequently, it is recommended to improve the existing analytical methods, primarily in foodstuffs of animal origin (recovery rate) and beverages (lowering the analytical limits by a factor of 100).

Iodofenphos

For the upperbound assumption only, the probability of exceeding the ADI was 2.3% in adults and 2.1% in children. The substance was not detected in any of the 50 foods that were analysed. The coverage rate of the theoretically contributing diet was 53% for adults and 42% for children (Table G2). These levels were due to the fact that the substance was not tested in foodstuffs of animal origin but only in certain foodstuffs of plant origin (vegetables, beverages, sugars and sugar derivatives and chocolate) for reasons of analytical capacity.

The substance was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2002. In the framework of the Member States' 2007 and 2008 surveillance programmes, the substance was not detected in unprocessed fruits and vegetables (4,326 analyses) or in drinking water (2,996 French analyses).

Consequently, considering the substance's relatively early withdrawal, moderate persistence in the soil (a half-life of less than 100 days) (Footprint-PPDB 2010) and lack of detection in foods in the EU, it is advisable to use only the lowerbound contamination assumption for its risk assessment. Thus, chronic risk to consumers can be discarded, without requiring additional analyses or analytical improvements for this substance.

Mecarbam

For the upperbound assumption only, the probability of exceeding the ADI was 0.7% in adults and 1.6% in children. The substance was not detected in any of the 132 foods that were analysed, which covered the entire theoretically contributing diet for adults and children (Table G2).

Mecarbam is an insecticide and acaricide that was first marketed in the 1960s. It was not included in Annex 1 of Directive 91/414/EEC in 2002 after its assessment. In the framework of the Member States' 2008 surveillance programmes, the substance was detected in three fruit and vegetable samples (39,364 analyses) (EFSA 2010a). In France in 2008, mecarbam was not detected.

Consequently, considering probable uses of this insecticide by third countries, it could be recommended to refine the analyses in vegetables, the main theoretical contributors, by lowering the LODs (0.01 mg/kg in this study) to 0.003 mg/kg as for fruits.

Methidathion (see data sheet)

For the upperbound assumption only, the ADI was exceeded in 0.3% of children. The substance was not detected in any of the 194 foods that were analysed. The coverage rate of the theoretically contributing diet was 91% for adults and 90% for children (Table G2).

A non-systemic insecticide and acaricide that has been used for more than 40 years on a wide variety of cultivated species, the substance was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2004. According to the results of the 2008 European coordinated surveillance programme, the substance was detected in 1.3% of the analysed samples and particularly in oranges (6.1% of analyses), mandarins (3.8%) and pears (0.3%) (EFSA 2010a). In France, the substance was also detected in 3.5% of the analysed citrus fruits (oranges, grapefruits, mandarins and lemons).

Consequently, considering good coverage of the diet and sufficiently low analytical limits for fruits, it could be recommended to undertake new, more sensitive (by a factor of 10) analyses only for non-alcoholic beverages, potatoes and potato products and soups and broths, the main theoretical contributors for children.

Mevinphos

For the upperbound assumption only, the probability of exceeding the ADI was 19% in adults and 21% in children. The substance was not detected in any of the 193 foods that were analysed, which covered the entire theoretically contributing diet for adults and children (Table G2).

The substance was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2002. In the framework of the Member States' 2008 surveillance programmes, the substance was detected in only one fruit sample out of 38,002 analyses (EFSA 2010a). In France, the substance was not detected in 2008.

Considering the good coverage of the contributing diet and only exceptional detection, it could be recommended to refine the analyses (lowering the analytical limits) only for vegetables (by a factor of 10) and beverages (by a factor of 100), the main theoretical contributors.

Monocrotophos

For the upperbound assumption only, the probability of exceeding the ADI was 7% in adults and 6.4% in children. The substance was not detected in any of the 193 foods that were analysed, which covered almost the entire theoretically contributing diet for adults and children (Table G2).

An insecticide that has been used for 50 years on a wide variety of cultivated species, monocrotophos was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2002. In the framework of the Member States' 2008 surveillance programmes, the substance was detected in beans from the Dominican Republic (EFSA 2010a). In France, the substance was not detected in 2008.

Consequently, considering possible uses of this insecticide in third countries, it could be recommended to undertake new, more sensitive (by a factor of 10) analyses only in vegetables and vegetable products, and in soups and broths, the main theoretical contributors.

Parathion

For the upperbound assumption only, the probability of exceeding the ADI was 3% in adults and 21% in children. The substance was not detected in any of the 194 foods that were analysed, which covered almost the entire theoretically contributing diet (Table G2).

A non-systemic insecticide and acaricide that has been used for more than 50 years on a wide range of crops, the substance was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2001. In the framework of the Member States' 2008 surveillance programmes and the European coordinated programme, the substance was detected in eight mandarin samples out of 51,212 analysed fruit and vegetable samples, and the MRL was exceeded in one sample from Spain. Consequently, EFSA recommends monitoring unauthorised uses of parathion (EFSA 2010a). In France, the active substance was not detected in 2008.

In TDS 2, fruits contributed to less than 3% of theoretical intake for the upperbound, and the LODs were relatively low for fruits (0.005 mg/kg). Consequently, it could be recommended to undertake new, more sensitive analyses only for vegetables (by a factor of 10) and beverages (by a factor of 100), the main theoretical contributors. Moreover, it is recommended to include paraoxon, a relevant metabolite in terms of chronic risk, which was tested only in vegetables and not in fruits in TDS 2.

Parathion-methyl

For the upperbound assumption only, the probability of exceeding the ADI was zero in adults and low in children (1.1%). The substance was not detected in any of the 194 foods that were analysed. The coverage rate of the theoretically contributing diet was 92% for adults and 93% for children (Table G2).

A non-systemic insecticide that has been used for more than 50 years on a wide range of crops, the substance was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2003. According to the results of the 2008 European coordinated surveillance programme, the substance and/or its metabolite (paraoxon-methyl) were detected in 0.05% of the analysed fruit and vegetable samples and in one cereal sample (EFSA 2010a). In France, the substance was detected in one sample of table olives.

In TDS 2, fruits contributed to 3% of theoretical intake for the upperbound, and the limits of detection were low (0.005 mg/kg). Consequently, it could be recommended to lower the LODs only for non-alcoholic beverages (by a factor of 100), the main theoretical contributors for the upperbound. Moreover, it is recommended to include paraoxon-methyl, as specified in the residue definition, in future analyses, since this metabolite has not yet been tested in foodstuffs of plant origin.

Phorate (see data sheet)

For the upperbound assumption only, the ADI was exceeded in 50% of adults and 72% of children. The substance was not detected in any of the 169 foods that were analysed. The coverage rate of the theoretically contributing diet was 93% for adults and 94% for children. This was due to a relatively low ADI, a conservative definition of residue and high LODs for most of the food groups that were analysed (Tables G1 and G2).

An insecticide, acaricide and nematicide that has been used for more than 50 years, the substance was not included in Annex 1 of Directive 91/414/EEC in 2002, and has not been used in France since 2003 (MAP 2002). In the framework of the Member States' 2008 surveillance programmes, the substance was detected in five fruit and vegetable samples out of 44,290 analyses (EFSA 2010a). In France, phorate was detected in one milk sample out of 2,601 analyses undertaken in foodstuffs of animal origin.

In TDS 2, fruits and vegetables and milk contributed to less than 7% of theoretical intake for the upperbound. However, the LODs were high for fruits and vegetables (0.01 mg/kg). Consequently, it could be recommended to lower the analytical limits both for fruits and vegetables that may contain residues (by a factor of 10) and for wheat-based products, the main theoretical contributors (by a factor of 10 to 100). Moreover, it is recommended to include the relevant metabolites, phorate sulfone and phorate sulfoxide, in future analyses, as these substances were not tested in foodstuffs of plant origin.

Phosphamidon

For the upperbound assumption only, the probability of exceeding the ADI was 0.7% in adults and 2.1% in children. The substance was not detected in any of the 168 foods that were analysed. Coverage of the theoretically contributing diet was 94% for adults and 95% for children (Table G2).

An insecticide and acaricide substance that has been used for over 50 years on a very wide range of crops, it was not included in Annex 1 in 2002 and has not been used in France since 2003. In the framework of the Member States' 2008 surveillance programmes, the substance was detected in two samples out of 2086 analysed cereal

samples and in one sample out of 40,016 fruit and vegetable samples (EFSA 2010a). In France, the substance was not detected in 2008.

Consequently, it could be recommended to improve the existing analytical methods (lowering the LODs by a factor of 10) only for fruits and vegetables (which contribute to 10% to 16% of intake for the upperbound) and non-alcoholic beverages including fruit juices (up to 25% of intake in children).

Pirimiphos-ethyl

For the upperbound assumption only, the probability of exceeding the ADI was 3% in adults and 4.3% in children. The substance was not detected in any of the 67 foods that were analysed. Coverage of the theoretically contributing diet was 59% for adults and 48% for children (Table G2).

The substance was not included in Annex 1 of Directive 91/414/EEC after its assessment in 2002. In the framework of the Member States' 2008 surveillance programmes, it was not detected in unprocessed foodstuffs of plant origin (EFSA 2010a). In France, it was not detected in the framework of the 2007 and 2008 surveillance plans, either in foodstuffs of plant and animal origin (5000 analyses) or in tap water (10,415 analyses).

Consequently, considering the substance's relatively early withdrawal, moderate persistence in the soil (with a half-life of 45 days) (Footprint-PPDB 2010) and lack of detection in foods in the European Union, it is advisable to use only the lowerbound and rule out a theoretical risk highlighted for the upperbound, without requiring additional analyses or analytical improvements for this substance.

Prothiofos

For the upperbound assumption only, the probability of exceeding the ADI was 1.8% in adults and 4.9% in children. The substance was not detected in any of the 30 foods that were analysed (fruits and vegetables). Coverage of the theoretically contributing diet was low (respectively 32% and 33%). Consequently, the ADI was exceeded for the upperbound due solely to the use of a very low ADI (0.1 µg/kg bw/day) (Table G2).

A non-systemic insecticide that has been used since 1978 mainly on fruits and vegetables, prothiofos was not included in Annex 1 after its assessment in 2002. In the framework of the Member States' 2008 surveillance programmes, the substance was detected in five fruit and vegetable samples out of 30,814 analysed samples (EFSA 2010a). However, in France, the substance was not detected in the 2008 surveillance plans, either in foodstuffs of plant and animal origin (1785 analyses) or in tap water (645 analyses).

Consequently, in light of the low detection frequency observed in the European Community in unprocessed foods (less than 0.02%), analytical efforts do not appear relevant considering the extremely low ADI. However, although the LODs used in this study were acceptable for fruits (0.005 mg/kg), it could be recommended to lower them for vegetables (0.002 mg/kg instead of 0.02 mg/kg in TDS 2).

Quinalphos (see data sheet)

For the upperbound assumption only, the ADI was exceeded in 3% of adults and 11% of children. This was particularly due to a relatively low ADI (0.5 µg/kg bw/day) and high analytical limits for certain food groups. The substance was not detected in any of the 194 foods that were analysed, which covered the entire theoretically contributing diet for adults and children (Table G2).

A systemic insecticide and acaricide that has been used for over thirty years, it has been used on all crops in both temperate and tropical regions, particularly in rice, citrus fruit, coffee, cocoa and tea. It has not been used in the European Community since 2003 (Regulation 2076/2002/EC). In the framework of the Member States' 2008 surveillance programmes, the substance was detected in 15 fruit and vegetable samples out of 46,013 analysed samples (EFSA 2010a). In France in 2007, the substance was detected only in one grapefruit sample from China, but was not detected in foodstuffs of animal origin or in tap water (11,534 analyses).

Consequently, in light of recent uses of this insecticide in third countries and analytical uncertainties, it could be recommended to undertake new, more sensitive analyses (lowering the LODs respectively by a factor of 10 and 100) for vegetables and beverages, which accounted for 10% and 15% of theoretical intake for the upperbound.

Case no. 4: persistent organic pollutants

Aldrin and Dieldrin (see data sheet)

For the upperbound assumption only, the PTDI was exceeded in 98% of adults and 97% of children. The substances were not detected in any of the 194 foods that were analysed. Coverage of the theoretically contributing diet was 87% for adults and 89% for children. The PTDI was exceeded particularly due to a relatively low PTDI (0.1 µg/kg bw/day), a definition of residue that included aldrin, and relatively high analytical limits for certain food groups (Tables G1 and G2).

These old pesticides were considered priorities in TDS 2 as POPs under the Stockholm Convention (UNEP 2001) that have been banned in the European Community (Regulations 79/117/EEC and 850/2004/EC). In the framework of the Member States' 2008 surveillance programmes, the substances were detected in 29 fruit and vegetable samples out of 39,493 analysed samples (EFSA 2010a). In France, they were detected in 2008 in seafood products and freshwater (14% of analyses), milk and dairy products (4%) and poultry meat (2%). However, they were not detected in tap water from 2007 to 2009 (nearly 70,000 analyses).

The lack of detection in fruits and vegetables in TDS 2 was very likely due to a dilution of potential residual levels related to the composite nature of the sample and to relatively high LODs except for animal matrices (LODs from 1 to 2 µg/kg). Thus, for the upperbound, foodstuffs of animal origin contributed very little to total exposure. Consequently, it does not appear relevant to lower the analytical limits for these matrices. However, beverages (coffee and other hot drinks for adults and non-alcoholic beverages for children) appeared to be theoretical main contributors due to high analytical limits and their high consumption (AFSSA 2009). Consequently, in light of analytical uncertainties, it is recommended to undertake new analyses in beverages using more sensitive methods (by a factor of 100).

Endrin (see data sheet)

For the upperbound assumption only, the PTDI was exceeded in 5.5% of adults and 11% of children. The substance was not detected in any of the 169 foods that were analysed. Coverage of the theoretically contributing diet was 79% for adults and 81% for children. The PTDI was exceeded particularly due to a low PTDI (0.2 µg/kg bw/day) and relatively high analytical limits for certain food groups (Tables G1 and G2).

The substance was considered a priority in TDS 2 as a POP under the Stockholm Convention (UNEP 2001) that has been banned in the European Community (Regulation 850/2004/EC). This old pesticide was detected in the Directorate General for Food's 2008 surveillance programme in two samples of seafood products and freshwater (out of 216 analyses).

In spite of this detection in surveillance plans, seafood products contributed for the upperbound to no more than 0.3% of intake in TDS 2. Consequently, it does not appear relevant to recommend lowering the analytical limits for this group for which the LODs were satisfactory (1 µg/kg) with acceptable recovery rates (90-120%). However, vegetables (which contributed to more than 20% of intake) and beverages (15% for coffee in adults and 25% for non-alcoholic beverages in children) require analytical efforts (lowering the analytical limits by a factor of 100).

HCH (see data sheet)

For the upperbound assumption only, the health-based guidance value was exceeded in 0.4% of adults [0.3; 0.5] and 1.4% of children [1.3; 1.5]. The substance was not detected in any of the 1,034 foods that were analysed, which covered 80% of the theoretically contributing diet for adults and children. The health-based guidance value was exceeded particularly due to a low PTDI (0.6 µg/kg bw/day) and relatively high analytical limits for certain food groups (Tables G1 and G2).

The substance was considered a priority in TDS 2 as a POP under the Stockholm Convention (UNEP 2001) that has been banned in the European Community (Regulation 850/2004/EC). As a comparison, in the framework of the European Union Member States' 2008 surveillance plans, the isomers were detected in four fruit and vegetable samples out of 19,879 analysed samples (EFSA 2010a). In France, the substance was detected in 2008 particularly in seafood products and freshwater (1.4% of analyses), poultry meat (1.3%), pork (0.7%) and beef (0.3%). However, the substance was not detected in water. One of the factors that explain the lack of detection in foods as consumed is very likely a dilution of potential residual levels related to the TDS composite sample, in spite of satisfactory analytical limits in animal matrices (LODs of 1 and 2 µg/kg fresh weight) and acceptable recovery rates (90 to 120%). Consequently, it does not appear relevant to recommend lowering the LODs for these matrices. On the other hand, it could be recommended, in the framework of the TDS programme, to lower the analytical limits for the main theoretical contributors (by a factor of 10 for vegetables and a factor of 100 for beverages).

Heptachlor (see data sheet)

For the upperbound assumption only, the PTDI was exceeded in 96% of adults and 95% of children. The substance was not detected in any of the 169 foods that were analysed. Coverage of the theoretically contributing diet was 80% for adults and 82% for children. The PTDI was exceeded due to a particularly low PTDI (0.1 µg/kg bw/day), a definition of residue that included the metabolite epoxide, and relatively high analytical limits for vegetables (Tables G1 and G2).

The substance was considered a priority in TDS 2 as a POP under the Stockholm Convention (UNEP 2001) that has been banned in the European Community (Regulation 850/2004/EC). In the framework of the Member States' 2008 surveillance plans, heptachlor and/or its metabolite were detected in eight fruit and vegetable samples out

of 36,819 analyses (EFSA 2010a). In France, the substance was detected in 2008 particularly in seafood products and freshwater (1.4% of analyses), poultry meat (1.3%), pork (0.7%) and beef (0.3%).

The lack of detection in fruits and vegetables in TDS 2 was very likely due to a dilution of potential residual levels related to the composite nature of the sample and to relatively high LODs except for animal matrices (LODs from 1 to 2 µg/kg). Considering relatively low analytical limits, foodstuffs of animal origin contributed very little to total exposure for the upperbound. Consequently, it does not appear relevant to lower the analytical limits for these matrices. However, in light of analytical uncertainties, it is recommended to undertake new analyses in vegetables and beverages with sufficiently low analytical limits (by a factor of 10 for vegetables and a factor of 100 for beverages).

Mirex

For the upperbound assumption only, the probability of exceeding the PTDI was not significant in adults and very low in children (0.9%). The substance was not detected in any of the 21 foods that were analysed (vegetables and biscuits), which covered 28% and 30% of the theoretically contributing diet (Tables G2 and G3). The PTDI was exceeded due to a very low PTDI value (0.2 µg/kg bw/day).

In the framework of the Member States' 2008 surveillance plans, mirex was detected in two fruit and vegetable samples out of 10,018 analyses (EFSA 2010a). In France, the substance was not detected in 2008.

Consequently, considering the low quantities that were produced from 1959 to 1975 (Stringer and Johnston 2002) compared to other POPs, the low detection frequency in surveillance plans, and the very low probability of exceeding the PTDI, it is advisable to use only the lowerbound. For the population in mainland France, the theoretical risk highlighted for the upperbound assumption only can be discarded, without requiring additional analyses.

Toxaphene (see data sheet)

For the upperbound assumption only, the probability of exceeding the PTDI was not significant in adults and 20% in children. The substance was not detected in any of the 62 foods that were analysed, which covered over 90% of the theoretically contributing diet (Tables G2 and G3). The PTDI was exceeded for the upperbound assumption only due to a very low health-based guidance value (0.033 µg/kg bw/day), calculated with a high uncertainty factor. The substance was considered a priority in TDS 2 as a POP under the Stockholm Convention (UNEP 2001) that has been banned in the European Community (Regulation 850/2004/EC). As a comparison, in 2008, the substance was not detected in foodstuffs of plant origin in Europe (EFSA 2010a) or in foodstuffs of animal origin and tap water in France. In light of the absence of detection in unprocessed foodstuffs in Europe, The risk associated with toxaphene exposure is not a public health issue. For the population in mainland France, the theoretical risk highlighted for the upperbound assumption only can be ruled out, without requiring additional analyses.

In conclusion, this analysis highlights three situations in terms of chronic risk to consumers:

- risk that cannot be excluded regarding exposure to dimethoate considering that the ADI was exceeded, by a low but significant percentage, for the lowerbound;
- theoretical risk that cannot be excluded without additional analyses of the main contributors for the upperbound (more sensitive analytical methods and/or improved recovery rates): dithiocarbamates, ethoprophos, carbofuran, diazinon, methamidophos, disulfoton, dieldrin, endrin and heptachlor;
- risk that cannot be excluded for: iodofenphos, mirex, pirimiphos-ethyl, HCH, mecarbam, methidathion, mevinphos, monocrotophos, oxydemeton-methyl, parathion, parathion-methyl, phorate, phosphamidon, prothiofos, quinalphos and toxaphene. The risk associated with chronic exposure to these substances is not a public health issue.

Additional analyses should be undertaken in the food groups that contributed to over 10% of theoretical (UB) intake for adults or children (see sheets). These theoretical main contributors were vegetables, non-alcoholic beverages for children and coffee and other hot drinks for adults, and more rarely fruits and processed foods such as bread and potatoes. These additional analyses would refine the estimation of exposure and confirm the absence of chronic risk to consumers, observed for the lowerbound contamination assumption for these substances.

These findings confirm recent conclusions by ANSES regarding the need to improve the performance of analytical methods for dithiocarbamates, ethoprophos, carbofuran, diazinon, methamidophos, disulfoton, dieldrin, endrin, heptachlor, dimethoate and omethoate, in order to refine characterisation of dietary risk associated with chronic exposure of the general population (ANSES 2010a; Nougadère, Reninger *et al.* 2011).

Table G2: Estimated exposure (%ADI or PTDI), probability of exceeding the ADI/PTDI for adults and children (3-17 years) and definition of the residue taken into account for the risk assessment (priority substances in bold)

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
2,4-D	27	0.05	COM, 2001	0.0	0.0	0.0	0.0	0.0	0.0	-	-	85.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	87.5
2-Phenylphenol (OPP)	132	0.4	PRAPeR, 2008	0.0	0.0	0.0	0.2	0.4	0.0	-	-	95.8	0.0	0.1	0.0	0.3	0.7	0.0	-	-	94.1
Abamectin	15	0.0025	EFSA, 2008	0.0	0.0	0.0	0.8	2.4	0.0	-	-	63.5	0.0	0.0	0.0	0.9	2.7	0.0	-	-	71.9
Acephate	132	0.03	JMPR, 2005	0.0	0.0	0.0	1.4	2.5	0.0	-	-	99.2	0.0	0.0	0.0	1.4	2.8	0.0	-	-	98.8
Acetamiprid	109	0.07	COM, 2004	0.0	0.0	0.0	0.1	0.2	0.0	-	-	87.5	0.0	0.0	0.0	0.2	0.3	0.0	-	-	87.9
Acibenzolar-S-methyl	15	0.1	COM, 2002	0.0	0.0	0.0	0.0	0.0	0.0	-	-	77.8	0.0	0.0	0.0	0.0	0.0	0.0	-	-	76.4
Acrinathrin	99	0.001	DAR, 2007	0.1	0.4	0.0	6.1	10.7	0.0	-	-	84.4	0.1	0.4	0.0	9.1	17.5	0.0	-	-	78.5
Aldicarb*	**126**	**0.003**	**JMPR, 1995**	**0.0**	**0.0**	**0.0**	**5.4**	**9.9**	**0.0**	**-**	**-**	**61.9**	**0.0**	**0.0**	**0.0**	**10.4**	**23.1**	**0.0**	**-**	**-**	**68.2**
Alphamethrin	55	0.015	COM, 2004	0.0	0.0	0.0	0.7	1.3	0.0	-	-	38.2	0.0	0.0	0.0	0.9	2.0	0.0	-	-	39.9
Amitraz	50	0.003	CVMP, 2003	0.0	0.0	0.0	8.4	18.2	0.0	-	-	92.9	0.0	0.0	0.0	5.8	15.9	0.0	-	-	95.1
Atrazine*	99	0.005	ECCO, 2003	0.0	0.0	0.0	1.1	2.1	0.0	-	-	79.8	0.0	0.0	0.0	1.6	3.3	0.0	-	-	79.2
Azamethiphos	17	0.025	EMEA, 1999	0.0	0.0	0.0	0.1	0.2	0.0	-	-	26.7	0.0	0.0	0.0	0.1	0.3	0.0	-	-	28.8
Azinphos-ethyl	63	0.002	AUS	0.0	0.0	0.0	13.5	28.4	0.0	-	-	92.9	0.0	0.0	0.0	9.7	25.1	0.0	-	-	95.1
Azinphos-methyl	**194**	**0.005**	**DAR, 2006**	**0.1**	**0.3**	**0.0**	**8.0**	**14.6**	**0.0**	**-**	**-**	**95.0**	**0.1**	**0.3**	**0.0**	**8.8**	**17.7**	**0.0**	**-**	**-**	**93.1**
Azoxystrobin	132	0.1	COM, 1998	0.0	0.0	0.0	0.2	0.4	0.0	-	-	83.6	0.0	0.0	0.0	0.3	0.5	0.0	-	-	81.8
Benalaxyl	107	0.04	COM, 2004	0.0	0.0	0.0	0.5	0.9	0.0	-	-	77.4	0.0	0.0	0.0	0.5	1.1	0.0	-	-	77.0
Bendiocarb	30	0.004	JMPR, 1984	0.0	0.0	0.0	0.8	2.0	0.0	-	-	31.8	0.0	0.0	0.0	1.0	2.4	0.0	-	-	32.9
Benfuracarb	15	0.01	EFSA, 2006	0.0	0.0	0.0	0.1	0.3	0.0	-	-	77.9	0.0	0.0	0.0	0.1	0.3	0.0	-	-	91.6
Bifenthrin	132	0.015	EFSA, 2008	0.0	0.1	0.0	1.0	1.8	0.0	-	-	89.0	0.0	0.1	0.0	1.2	2.5	0.0	-	-	87.7
Binapacryl	30	0.002	AUS, 1984	0.0	0.0	0.0	2.2	5.2	0.0	-	-	92.9	0.0	0.0	0.0	2.4	6.3	0.0	-	-	95.1
Bioresmethrin	17	0.03	JMPR	0.0	0.0	0.0	0.1	0.2	0.0	-	-	26.7	0.0	0.0	0.0	0.1	0.3	0.0	-	-	28.8
Biphenyl	**48**	**0.125**	**JMPR, 1967**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.0**	**-**	**-**	**55.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.0**	**-**	**-**	**43.7**
Bitertanol	107	0.01	JMPR, 1998	0.0	0.0	0.0	3.2	6.3	0.0	-	-	77.8	0.0	0.0	0.0	2.6	6.2	0.0	-	-	75.5
Boscalid	99	0.04	JMPR, 2006	0.0	0.1	0.0	0.2	0.3	0.0	-	-	59.9	0.0	0.1	0.0	0.2	0.5	0.0	-	-	68.5
Bromophos methyl	67	0.04	JMPR, 1977	0.0	0.0	0.0	0.4	0.8	0.0	-	-	59.5	0.0	0.0	0.0	0.3	0.7	0.0	-	-	47.8
Bromophos-ethyl	111	0.003	JMPR, 1975	0.0	0.0	0.0	6.3	11.8	0.0	-	-	92.9	0.0	0.0	0.0	6.5	12.9	0.0	-	-	95.1
Bromopropylate	132	0.03	JMPR, 1993	0.0	0.0	0.0	0.6	1.2	0.0	-	-	91.4	0.0	0.0	0.0	0.6	1.2	0.0	-	-	90.6
Bromuconazole	61	0.01	EFSA, 2008	0.0	0.0	0.0	0.6	1.1	0.0	-	-	73.3	0.0	0.0	0.0	1.0	2.1	0.0	-	-	75.3
Bupirimate	132	0.05	DAR, 2007	0.0	0.0	0.0	0.4	0.7	0.0	-	-	85.2	0.0	0.0	0.0	0.4	0.8	0.0	-	-	81.2
Buprofezin	132	0.009	JMPR, 2008	0.0	0.0	0.0	2.2	4.0	0.0	-	-	88.2	0.0	0.0	0.0	2.2	4.4	0.0	-	-	87.0
Cadusafos	59	0.0004	EFSA, 2006	0.0	0.0	0.0	7.8	14.5	0.0	-	-	38.4	0.0	0.0	0.0	12.1	24.7	0.0	-	-	42.7
Captafol	30	0.002	EPA	0.0	0.0	0.0	1.5	3.5	0.0	-	-	58.1	0.0	0.0	0.0	1.7	4.4	0.0	-	-	56.9
Captan	194	0.1	EFSA, 2006	0.0	0.0	0.0	1.0	2.0	0.0	-	-	91.4	0.0	0.0	0.0	1.4	3.0	0.0	-	-	90.1

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
Carbaryl	**187**	**0.0075**	**EFSA, 2006**	**0.0**	**0.0**	**0.0**	**1.8**	**3.0**	**0.0**	**-**	**-**	**89.9**	**0.0**	**0.0**	**0.0**	**2.0**	**4.0**	**0.0**	**-**	**-**	**87.6**
Carbendazim*	**179**	**0.02**	**COM, 2007**	**0.1**	**0.6**	**0.0**	**0.6**	**1.2**	**0.0**	**-**	**-**	**90.4**	**0.1**	**0.4**	**0.0**	**0.9**	**1.9**	**0.0**	**-**	**-**	**89.5**
Carbetamide	**63**	**0.03**	**FR, 2010**	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.0**	**-**	**-**	**55.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.2**	**0.0**	**-**	**-**	**50.3**
Carbofuran	**180**	**0.00015**	**EFSA, 2009**	**0.4**	**1.1**	**0.0**	**89.2**	**152.1**	**30.1**	**28.0**	**32.2**	**89.1**	**0.4**	**0.0**	**0.0**	**103.4**	**200.9**	**44.6**	**42.1**	**47.2**	**86.3**
Carbophenothion	63	0.0005	JMPR, 1980	0.0	0.0	0.0	20.0	40.1	0.0	-	-	58.1	0.0	0.0	0.0	16.9	41.4	0.0	-	-	46.1
Carbosulfan	61	0.005	EFSA, 2009	0.0	0.0	0.0	1.3	2.3	0.0	-	-	50.6	0.0	0.0	0.0	2.0	4.2	0.0	-	-	48.6
Carboxin	17	0.0016	DAR, 2006	0.0	0.0	0.0	1.5	3.8	0.0	-	-	56.5	0.0	0.0	0.0	1.8	4.9	0.0	-	-	48.4
Chinomethionat	107	0.006	JMPR, 1987	0.0	0.0	0.0	3.0	5.7	0.0	-	-	67.5	0.0	0.0	0.0	2.6	5.9	0.0	-	-	58.3
Chlordane*	**136**	**0.0005**	**JMPR, 1994**	**0.0**	**0.0**	**0.0**	**16.2**	**28.5**	**0.0**	**-**	**-**	**92.3**	**0.0**	**0.0**	**0.0**	**30.5**	**61.1**	**0.0**	**-**	**-**	**94.2**
Chlorfenvinphos	**194**	**0.0005**	**JMPR, 1994**	**0.1**	**0.1**	**0.0**	**23.2**	**40.5**	**0.0**	**-**	**-**	**94.2**	**0.0**	**0.0**	**0.0**	**26.0**	**50.8**	**0.1**	**-0.1**	**0.3**	**94.6**
Chlorfluazuron	15	0.005	AUS, 1987	0.0	0.0	0.0	0.4	1.2	0.0	-	-	29.1	0.0	0.0	0.0	0.4	1.3	0.0	-	-	30.5
Chlorobenzilate	15	0.02	JMPR, 1980	0.0	0.0	0.0	0.1	0.2	0.0	-	-	92.9	0.0	0.0	0.0	0.1	0.2	0.0	-	-	95.1
Chlorofenizon	30	0.01	JMPR, 1965	0.0	0.0	0.0	0.3	0.8	0.0	-	-	92.9	0.0	0.0	0.0	0.4	1.0	0.0	-	-	95.1
Chlorothalonil	**194**	**0.015**	**COM, 2006**	**0.0**	**0.1**	**0.0**	**0.8**	**1.5**	**0.0**	**-**	**-**	**89.6**	**0.0**	**0.1**	**0.0**	**1.0**	**2.0**	**0.0**	**-**	**-**	**87.3**
Chlorpropham	132	0.05	COM, 2003	0.3	0.7	0.0	0.5	1.0	0.0	-	-	72.8	0.5	1.4	0.0	0.7	1.7	0.0	-	-	65.3
Chlorpyrifos-ethyl	**194**	**0.01**	**COM, 2005**	**0.1**	**0.5**	**0.0**	**1.4**	**2.6**	**0.0**	**-**	**-**	**88.0**	**0.1**	**0.4**	**0.0**	**1.5**	**3.0**	**0.0**	**-**	**-**	**86.4**
Chlorpyrifos-methyl	**194**	**0.01**	**COM, 2005**	**0.0**	**0.1**	**0.0**	**1.3**	**2.3**	**0.0**	**-**	**-**	**91.0**	**0.1**	**0.2**	**0.0**	**1.5**	**3.0**	**0.0**	**-**	**-**	**90.5**
Chlortal dimethyl	107	0.01	DAR, 2006	0.0	0.0	0.0	1.1	2.0	0.0	-	-	72.7	0.0	0.0	0.0	1.2	2.4	0.0	-	-	75.0
Chlozolinate	74	0.02	ECCO, 1998	0.0	0.0	0.0	0.4	0.6	0.0	-	-	92.9	0.0	0.0	0.0	0.5	1.1	0.0	-	-	95.1
Clofentezine	80	0.02	JMPR, 2005	0.0	0.0	0.0	0.6	1.2	0.0	-	-	89.3	0.0	0.0	0.0	0.9	1.8	0.0	-	-	87.8
Coumaphos	30	0.0005	AUS, 1971	0.0	0.0	0.0	12.6	31.4	0.0	-	-	31.8	0.0	0.0	0.0	13.9	36.5	0.03	-0.1	0.1	32.9
Cyfluthrin	111	0.003	COM, 2002	0.0	0.0	0.0	8.2	14.4	0.0	-	-	70.9	0.0	0.0	0.0	9.7	18.7	0.0	-	-	68.8
Cyhexatin*	**27**	**0.003**	**JMPR, 2005**	**0.0**	**0.0**	**0.0**	**0.3**	**0.8**	**0.0**	**-**	**-**	**45.7**	**0.0**	**0.0**	**0.0**	**0.9**	**2.4**	**0.0**	**-**	**-**	**55.6**
Cymoxanil	15	0.013	PRAPeR, 2008	0.0	0.0	0.0	0.2	0.5	0.0	-	-	62.9	0.0	0.0	0.0	0.2	0.5	0.0	-	-	65.2
Cypermethrin	132	0.05	COM, 2005	0.0	0.0	0.0	0.6	1.0	0.0	-	-	76.0	0.0	0.0	0.0	0.8	1.4	0.0	-	-	68.0
Cyproconazole	111	0.02	DAR, 2006	0.0	0.0	0.0	1.4	2.5	0.0	-	-	79.4	0.0	0.0	0.0	1.8	3.5	0.0	-	-	75.6
Cyprodinil	132	0.03	EFSA, 2005	0.1	0.4	0.0	0.6	1.2	0.0	-	-	86.2	0.1	0.3	0.0	0.5	1.2	0.0	-	-	85.1
Cyromazine	15	0.06	JMPR, 2006	0.0	0.0	0.0	0.0	0.1	0.0	-	-	63.3	0.0	0.0	0.0	0.0	0.1	0.0	-	-	62.4
DDT*	**169**	**0.01**	**JMPR, 2000**	**0.0**	**0.0**	**0.0**	**2.9**	**5.1**	**0.0**	**-**	**-**	**81.2**	**0.0**	**0.0**	**0.0**	**3.4**	**7.0**	**0.0**	**-**	**-**	**81.3**
Deltamethrin	**194**	**0.01**	**COM, 2002**	**0.0**	**0.0**	**0.0**	**2.8**	**4.8**	**0.0**	**-**	**-**	**88.8**	**0.0**	**0.0**	**0.0**	**3.5**	**6.8**	**0.0**	**-**	**-**	**87.6**
Dialifos	17	0.001	AUS, 1978	0.0	0.0	0.0	2.4	6.0	0.0	-	-	26.7	0.0	0.0	0.0	2.8	7.9	0.0	-	-	28.8
Diazinon	**193**	**0.0002**	**EFSA, 2006**	**0.0**	**0.1**	**0.0**	**66.7**	**112.3**	**10.2**	**8.9**	**11.6**	**89.8**	**0.0**	**0.1**	**0.0**	**82.1**	**157.4**	**28.2**	**25.9**	**30.6**	**86.9**
Dicamba	27	0.3	DAR, 2007	0.0	0.0	0.0	0.0	0.0	0.0	-	-	47.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	40.4
Dichlobenil	17	0.005	DAR, 2007	0.0	0.0	0.0	0.5	1.2	0.0	-	-	45.2	0.0	0.0	0.0	0.6	1.6	0.0	-	-	44.3
Dichlofluanid	132	0.007	NL, 2000	0.0	0.0	0.0	3.3	5.9	0.0	-	-	73.8	0.0	0.0	0.0	3.3	7.0	0.0	-	-	65.2
Dichlorprop-P	46	0.06	Dir. 06/74/EC	0.0	0.0	0.0	0.1	0.1	0.0	-	-	33.3	0.0	0.0	0.0	0.1	0.3	0.0	-	-	38.6

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
Dichlorvos	**153**	**0.004**	**JMPR, 1993**	**0.0**	**0.0**	**0.0**	**7.5**	**13.3**	**0.0**	**-**	**-**	**100.0**	**0.0**	**0.0**	**0.0**	**8.6**	**17.0**	**0.0**	**-**	**-**	**100.0**
Diclobutrazol	30	0.03	AUS, 1983	0.0	0.0	0.0	0.1	0.3	0.0	-	-	31.8	0.0	0.0	0.0	0.2	0.4	0.0	-	-	32.9
Dicloran	30	0.08	DAR, 2005	0.0	0.0	0.0	0.0	0.0	0.0	-	-	57.4	0.0	0.0	0.0	0.0	0.1	0.0	-	-	50.1
Dicofol*	**194**	**0.002**	**JMPR, 1992**	**0.0**	**0.0**	**0.0**	**11.8**	**20.3**	**0.0**	**-**	**-**	**87.7**	**0.0**	**0.0**	**0.0**	**12.8**	**25.4**	**0.0**	**-**	**-**	**87.7**
Dieldrin*	**194**	**0.0001**	**JMPR, 1994**	**0.0**	**0.0**	**0.0**	**284.6**	**523.2**	**97.7**	**97.1**	**98.4**	**87.0**	**0.0**	**0.0**	**0.0**	**296.0**	**587.9**	**96.9**	**96.0**	**97.8**	**88.6**
Diethofencarb	78	0.17	DAR, 2007	0.0	0.0	0.0	0.1	0.2	0.0	-	-	79.7	0.0	0.0	0.0	0.1	0.3	0.0	-	-	80.4
Difenoconazole	99	0.01	JMPR, 2007	0.0	0.0	0.0	1.1	2.0	0.0	-	-	72.3	0.0	0.0	0.0	1.7	3.5	0.0	-	-	67.7
Diflubenzuron	40	0.1	EFSA, 2009	0.0	0.0	0.0	0.2	0.4	0.0	-	-	56.2	0.0	0.0	0.0	0.2	0.5	0.0	-	-	55.2
Dimethoate*	**193**	**0.001**	**EFSA, 2006**	**1.8**	**4.3**	**0.4**	**123.9**	**234.9**	**59.1**	**56.9**	**61.3**	**89.1**	**2.0**	**2.5**	**0.6**	**120.4**	**251.3**	**53.0**	**50.4**	**55.6**	**87.1**
Dimethomorph	84	0.05	EFSA, 2006	0.0	0.0	0.0	0.2	0.3	0.0	-	-	77.6	0.0	0.0	0.0	0.3	0.5	0.0	-	-	83.1
Diniconazole	21	0.02	DAR, 2006	0.0	0.0	0.0	0.5	1.2	0.0	-	-	54.6	0.0	0.0	0.0	0.9	2.2	0.0	-	-	54.7
Dinocap	15	0.004	COM, 2006	0.0	0.0	0.0	0.5	1.5	0.0	-	-	87.7	0.0	0.0	0.0	0.6	1.7	0.0	-	-	89.5
Diphenylamine	132	0.075	PRAPeR, 2008	0.1	0.5	0.0	0.3	0.7	0.0	-	-	97.6	0.1	0.5	0.0	0.3	0.8	0.0	-	-	95.1
Diquat	**19**	**0.002**	**COM, 2001**	**0.0**	**0.0**	**0.0**	**0.5**	**1.2**	**0.0**	**-**	**-**	**72.9**	**0.0**	**0.0**	**0.0**	**1.5**	**4.0**	**0.0**	**-**	**-**	**74.4**
Disulfoton	**69**	**0.0003**	**JMPR, 1996**	**0.0**	**0.0**	**0.0**	**58.0**	**112.7**	**9.3**	**8.0**	**10.6**	**70.4**	**0.0**	**0.0**	**0.0**	**51.1**	**119.5**	**8.5**	**7.0**	**9.9**	**64.8**
Dithiocarbamates	**95**	**0.007**	**COM, 2003**	**0.0**	**0.0**	**0.0**	**23.2**	**42.1**	**0.0**	**-**	**-**	**60.6**	**0.0**	**0.0**	**0.0**	**32.6**	**67.6**	**0.4**	**0.1**	**0.8**	**70.1**
Diuron	15	0.007	EFSA, 2005	0.0	0.0	0.0	0.3	0.9	0.0	-	-	34.8	0.0	0.0	0.0	0.3	1.0	0.0	-	-	38.7
Endosulfan*	**194**	**0.006**	**COM, 2009**	**0.0**	**0.1**	**0.0**	**6.9**	**11.9**	**0.0**	**-**	**-**	**89.3**	**0.0**	**0.1**	**0.0**	**8.7**	**16.7**	**0.0**	**-**	**-**	**86.7**
Endrin	**169**	**0.0002**	**JMPR, 1994**	**0.0**	**0.0**	**0.0**	**56.0**	**101.5**	**5.5**	**4.5**	**6.5**	**78.5**	**0.0**	**0.0**	**0.0**	**60.1**	**122.8**	**10.9**	**9.3**	**12.5**	**81.1**
Epoxiconazole	59	0.008	EFSA, 2008	0.0	0.0	0.0	0.6	1.1	0.0	-	-	64.6	0.0	0.0	0.0	1.1	2.1	0.0	-	-	60.1
Esfenvalerate*	132	0.02	COM, 2005	0.0	0.0	0.0	4.0	7.9	0.0	-	-	73.8	0.0	0.0	0.0	5.6	11.6	0.0	-	-	65.2
Ethiofencarb	17	0.1	JMPR, 1982	0.0	0.0	0.0	0.0	0.1	0.0	-	-	26.7	0.0	0.0	0.0	0.0	0.1	0.0	-	-	28.8
Ethion	**194**	**0.002**	**JMPR, 1990**	**0.1**	**0.2**	**0.0**	**5.8**	**10.1**	**0.0**	**-**	**-**	**92.6**	**0.1**	**0.2**	**0.0**	**6.9**	**13.7**	**0.0**	**-**	**-**	**91.1**
Ethirimol	17	0.0075	BE, 1987	0.0	0.0	0.0	0.3	0.8	0.0	-	-	67.7	0.0	0.0	0.0	0.4	1.0	0.0	-	-	71.2
Ethoprophos	132	0.0004	EFSA, 2006	0.0	0.0	0.0	51.9	93.9	3.6	2.7	4.4	96.9	0.0	0.0	0.0	51.3	106.4	6.1	4.9	7.3	97.0
Ethoxyquin	**66**	**0.005**	**JMPR, 2005**	**0.1**	**0.8**	**0.0**	**1.7**	**4.7**	**0.0**	**-**	**-**	**98.3**	**0.2**	**1.1**	**0.0**	**5.2**	**13.9**	**0.0**	**-**	**-**	**96.6**
Etofenprox	15	0.03	JMPR, 1993	0.0	0.0	0.0	0.0	0.1	0.0	-	-	41.2	0.0	0.0	0.0	0.0	0.1	0.0	-	-	34.1
Etridiazole	17	0.005	DAR, 2007	0.0	0.0	0.0	0.5	1.2	0.0	-	-	92.6	0.0	0.0	0.0	0.6	1.6	0.0	-	-	92.0
Etrimfos	30	0.003	JMPR, 1986	0.0	0.0	0.0	1.1	2.7	0.0	-	-	31.8	0.0	0.0	0.0	1.3	3.2	0.0	-	-	32.9
Fenamidone	15	0.03	COM, 2003	0.0	0.0	0.0	0.0	0.1	0.0	-	-	72.3	0.0	0.0	0.0	0.0	0.1	0.0	-	-	75.7
Fenamiphos *	61	0.0008	EFSA, 2006	0.0	0.0	0.0	8.1	17.1	0.0	-	-	65.2	0.0	0.0	0.0	11.1	25.5	0.0	-	-	57.2
Fenarimol	132	0.01	COM, 2007	0.0	0.0	0.0	2.0	3.8	0.0	-	-	93.4	0.0	0.0	0.0	1.9	4.0	0.0	-	-	91.6
Fenazaquin	15	0.005	DAR, 2006	0.0	0.0	0.0	0.2	0.6	0.0	-	-	70.9	0.0	0.0	0.0	0.2	0.7	0.0	-	-	67.5
Fenbuconazole	74	0.006	EFSA, 2010	0.1	0.1	0.0	0.9	2.0	0.0	-	-	68.7	0.1	0.0	0.0	1.3	2.8	0.0	-	-	62.7
Fenbutatin oxide	**31**	**0.05**	**DAR, 2005**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**-**	**58.7**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**-**	**59.0**
Fenchlorphos	63	0.01	JMPR	0.0	0.0	0.0	0.9	1.8	0.0	-	-	92.9	0.0	0.0	0.0	0.7	1.8	0.0	-	-	95.1

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
Fenhexamid	132	0.2	JMPR, 2005	0.0	0.0	0.0	0.2	0.4	0.0	-	-	89.8	0.0	0.0	0.0	0.2	0.5	0.0	-	-	88.8
Fenitrothion	**194**	**0.005**	**EFSA, 2006**	**0.0**	**0.0**	**0.0**	**2.8**	**4.8**	**0.0**	**-**	**-**	**89.4**	**0.0**	**0.0**	**0.0**	**3.2**	**6.4**	**0.0**	**-**	**-**	**86.5**
Fenoxycarb	30	0.06	DAR, 2007	0.0	0.0	0.0	0.1	0.2	0.0	-	-	68.9	0.0	0.0	0.0	0.1	0.2	0.0	-	-	64.3
Fenpropathrin	132	0.03	JMPR, 1993	0.0	0.0	0.0	0.6	1.2	0.0	-	-	95.6	0.0	0.0	0.0	0.6	1.2	0.0	-	-	93.7
Fenpropidin	46	0.02	EFSA, 2007	0.0	0.0	0.0	0.1	0.2	0.0	-	-	66.9	0.0	0.0	0.0	0.2	0.4	0.0	-	-	61.1
Fenpropimorph	**84**	**0.003**	**EFSA, 2008**	**0.0**	**0.0**	**0.0**	**1.9**	**3.7**	**0.0**	**-**	**-**	**71.7**	**0.0**	**0.0**	**0.0**	**2.9**	**6.0**	**0.0**	**-**	**-**	**79.0**
Fenpyroximate	15	0.01	EFSA, 2008	0.0	0.0	0.0	0.1	0.3	0.0	-	-	44.6	0.0	0.0	0.0	0.1	0.3	0.0	-	-	52.3
Fenthion*	**194**	**0.007**	**COM, 2001**	**0.0**	**0.0**	**0.0**	**3.5**	**6.1**	**0.0**	**-**	**-**	**92.7**	**0.0**	**0.0**	**0.0**	**4.1**	**8.1**	**0.0**	**-**	**-**	**91.0**
Fentin acetate	**27**	**0.0004**	**ECCO, 2001**	**0.0**	**0.0**	**0.0**	**1.2**	**3.1**	**0.0**	**-**	**-**	**92.9**	**0.0**	**0.0**	**0.0**	**3.7**	**9.5**	**0.0**	**-**	**-**	**95.1**
Fentin hydroxide	**27**	**0.0004**	**ECCO, 2001**	**0.0**	**0.0**	**0.0**	**1.2**	**3.1**	**0.0**	**-**	**-**	**92.9**	**0.0**	**0.0**	**0.0**	**3.7**	**9.5**	**0.0**	**-**	**-**	**95.1**
Fipronil	59	0.0002	EFSA, 2006	0.0	0.0	0.0	20.5	42.2	0.06	-0.05	0.17	55.7	0.0	0.0	0.0	29.3	62.4	0.1	-0.1	0.3	50.3
Fluazifop-P-butyl	61	0.01	DAR, 2007	0.0	0.0	0.0	6.1	15.2	0.0	-	-	42.6	0.0	0.0	0.0	7.4	19.8	0.0	-	-	46.2
Flubenzimine	17	0.025	BE, 1987	0.0	0.0	0.0	0.1	0.2	0.0	-	-	26.7	0.0	0.0	0.0	0.1	0.3	0.0	-	-	28.8
Fludioxonil	132	0.37	EFSA, 2007	0.0	0.1	0.0	0.1	0.1	0.0	-	-	86.2	0.0	0.1	0.0	0.1	0.1	0.0	-	-	85.5
Flufenoxuron	15	0.0035	DAR, 2006	0.0	0.0	0.0	0.3	0.9	0.0	-	-	64.4	0.0	0.0	0.0	0.3	1.0	0.0	-	-	65.7
Fluquinconazole	59	0.002	PRAPeR, 2006	0.0	0.0	0.0	2.6	4.6	0.0	-	-	55.3	0.0	0.0	0.0	4.3	8.5	0.0	-	-	47.9
Flusilazole	99	0.002	COM, 2007	0.0	0.0	0.0	4.1	7.2	0.0	-	-	71.3	0.0	0.0	0.0	6.3	12.1	0.0	-	-	66.8
Flutolanil	50	0.09	EFSA, 2008	0.0	0.0	0.0	0.2	0.3	0.0	-	-	54.4	0.0	0.0	0.0	0.1	0.3	0.0	-	-	46.6
Flutriafol	74	0.01	DAR, 2006	0.0	0.0	0.0	0.7	1.3	0.0	-	-	64.2	0.0	0.0	0.0	1.1	2.3	0.0	-	-	59.5
Folpet	**194**	**0.1**	**EFSA, 2009**	**0.0**	**0.0**	**0.0**	**0.3**	**0.5**	**0.0**	**-**	**-**	**91.3**	**0.0**	**0.0**	**0.0**	**0.4**	**0.9**	**0.0**	**-**	**-**	**89.6**
Fonofos	111	0.002	BE, 1986	0.0	0.0	0.0	10.2	19.0	0.0	-	-	68.8	0.0	0.0	0.0	10.8	21.2	0.0	-	-	60.0
Furathiocarb	30	0.003	AUS	0.0	0.0	0.0	1.4	3.5	0.0	-	-	77.9	0.0	0.0	0.0	1.6	4.2	0.0	-	-	91.6
Haloxyfop	46	0.00065	EFSA, 2006	0.0	0.0	0.0	6.4	11.6	0.0	-	-	45.4	0.0	0.0	0.0	11.5	23.4	0.0	-	-	53.4
HCH*	**174**	**0.0006**	**ATSDR, 2005**	**0.0**	**0.0**	**0.0**	**34.5**	**60.3**	**0.4**	**0.1**	**0.7**	**85.3**	**0.0**	**0.0**	**0.0**	**40.8**	**77.3**	**1.5**	**0.9**	**2.2**	**85.0**
Heptachlor*	**169**	**0.0001**	**JMPR, 1991**	**0.0**	**0.0**	**0.0**	**264.9**	**467.9**	**96.3**	**95.5**	**97.2**	**80.1**	**0.0**	**0.0**	**0.0**	**299.4**	**619.6**	**95.3**	**94.2**	**96.4**	**81.6**
Heptenophos	132	0.002	DE, 1997	0.0	0.0	0.0	9.6	17.8	0.0	-	-	73.8	0.0	0.0	0.0	9.7	19.4	0.0	-	-	65.2
Hexachlorobenzene	**194**	**0.0008**	**EPA**	**0.0**	**0.0**	**0.0**	**12.9**	**23.1**	**0.0**	**-**	**-**	**88.1**	**0.0**	**0.1**	**0.0**	**13.9**	**27.5**	**0.0**	**-**	**-**	**88.7**
Hexaconazole	99	0.005	JMPR, 1990	0.0	0.0	0.0	1.6	3.1	0.0	-	-	68.0	0.0	0.0	0.0	2.3	5.4	0.0	-	-	84.3
Hexaflumuron	15	0.02	BE, 1994	0.0	0.0	0.0	0.1	0.3	0.0	-	-	29.1	0.0	0.0	0.0	0.1	0.3	0.0	-	-	30.5
Hexythiazox	40	0.03	JMPR, 1991	0.0	0.0	0.0	0.6	1.3	0.0	-	-	57.2	0.0	0.0	0.0	0.9	1.9	0.0	-	-	54.4
Imazalil	**171**	**0.025**	**COM, 2009**	**0.4**	**2.3**	**0.0**	**3.4**	**6.1**	**0.0**	**-**	**-**	**93.9**	**0.7**	**4.3**	**0.0**	**4.8**	**10.3**	**0.0**	**-**	**-**	**92.6**
Imidacloprid	65	0.06	EFSA, 2008	0.0	0.0	0.0	0.0	0.1	0.0	-	-	51.4	0.0	0.0	0.0	0.1	0.1	0.0	-	-	51.5
Indoxacarb	40	0.006	COM, 2005	0.0	0.0	0.0	1.4	3.1	0.0	-	-	57.0	0.0	0.0	0.0	2.2	4.7	0.0	-	-	45.8
Iodofenphos	50	0.0002	AUS, 1974	0.0	0.0	0.0	40.1	81.2	2.3	1.6	3.0	53.0	0.0	0.0	0.0	32.0	82.2	2.1	1.3	2.8	42.0
Iprodione	**194**	**0.06**	**COM, 2002**	**0.3**	**1.3**	**0.0**	**0.7**	**1.7**	**0.0**	**-**	**-**	**88.9**	**0.3**	**1.1**	**0.0**	**0.8**	**1.8**	**0.0**	**-**	**-**	**87.2**
Iprovalicarb	60	0.015	COM, 2002	0.0	0.0	0.0	1.7	3.8	0.0	-	-	82.9	0.0	0.0	0.0	1.3	3.3	0.0	-	-	82.9

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
Isofenphos	63	0.001	JMPR, 1986	0.0	0.0	0.0	9.0	17.8	0.0	-	-	58.1	0.0	0.0	0.0	7.4	17.9	0.0	-	-	46.1
Isofenphos-methyl	132	0.001	JMPR, 1986	0.0	0.0	0.0	14.6	24.6	0.0	-	-	73.8	0.0	0.0	0.0	17.2	33.5	0.0	-	-	65.2
Kresoxim-methyl	132	0.4	COM, 1998	0.0	0.0	0.0	0.0	0.1	0.0	-	-	91.4	0.0	0.0	0.0	0.0	0.1	0.0	-	-	90.4
Lambda-Cyhalothrin	132	0.005	COM, 2001	0.1	0.5	0.0	3.5	6.1	0.0	-	-	75.9	0.1	0.4	0.0	4.3	8.6	0.0	-	-	68.2
Lindane (gamma HCH)	**194**	**0.005**	**JMPR, 2002**	**0.0**	**0.2**	**0.0**	**3.5**	**5.7**	**0.0**	**-**	**-**	**90.2**	**0.0**	**0.2**	**0.0**	**4.8**	**9.2**	**0.0**	**-**	**-**	**90.3**
Linuron	40	0.003	COM, 2002	0.0	0.0	0.0	1.7	3.6	0.0	-	-	68.8	0.0	0.0	0.0	2.3	5.1	0.0	-	-	56.8
Malathion*	**194**	**0.03**	**EFSA, 2009**	**0.0**	**0.0**	**0.0**	**0.7**	**1.2**	**0.0**	**-**	**-**	**89.9**	**0.0**	**0.0**	**0.0**	**0.7**	**1.4**	**0.0**	**-**	**-**	**88.9**
Mecarbam	132	0.0005	Sc. Com., 1995	0.0	0.0	0.0	38.2	70.6	0.7	0.4	1.1	100.0	0.0	0.0	0.0	38.5	76.3	1.6	1.0	2.3	100.0
Mepanipyrim	132	0.02	COM, 2004	0.0	0.0	0.0	1.7	3.0	0.0	-	-	91.5	0.0	0.0	0.0	2.1	4.0	0.0	-	-	90.3
Mepiquat	15	0.2	EFSA, 2008	0.0	0.0	0.0	0.0	0.0	0.0	-	-	45.4	0.0	0.0	0.0	0.0	0.0	0.0	-	-	39.9
Mepronil	132	0.05	BE, 1986	0.0	0.0	0.0	0.4	0.8	0.0	-	-	98.3	0.0	0.0	0.0	0.5	0.9	0.0	-	-	98.5
Metalaxyl-M (Mefenoxam)	132	0.08	COM, 2002	0.0	0.0	0.0	0.2	0.3	0.0	-	-	85.5	0.0	0.0	0.0	0.2	0.4	0.0	-	-	81.2
Metconazole	74	0.01	EFSA, 2006	0.0	0.0	0.0	0.7	1.3	0.0	-	-	75.1	0.0	0.0	0.0	1.1	2.3	0.0	-	-	77.0
Methacrifos	74	0.006	JMPR, 1990	0.0	0.0	0.0	1.2	2.2	0.0	-	-	92.9	0.0	0.0	0.0	1.9	3.8	0.0	-	-	95.1
Methamidophos	132	0.001	COM, 2007	0.0	0.0	0.0	36.2	68.7	0.6	0.3	1.0	85.8	0.0	0.0	0.0	33.4	72.5	1.2	0.7	1.8	81.5
Methidathion	**194**	**0.001**	**JMPR, 1992**	**0.0**	**0.0**	**0.0**	**24.3**	**42.7**	**0.0**	**-**	**-**	**91.4**	**0.0**	**0.0**	**0.0**	**27.5**	**52.5**	**0.3**	**0.0**	**0.6**	**90.0**
Methiocarb*	80	0.013	EFSA, 2006	0.0	0.0	0.0	2.2	5.1	0.0	-	-	82.8	0.0	0.0	0.0	2.7	6.6	0.0	-	-	78.5
Methomyl*	**126**	**0.0025**	**EFSA, 2008**	**0.0**	**0.0**	**0.0**	**2.2**	**3.9**	**0.0**	**-**	**-**	**90.7**	**0.0**	**0.0**	**0.0**	**3.4**	**7.0**	**0.0**	**-**	**-**	**86.5**
Methoxychlor	74	0.1	JMPR, 1977	0.0	0.0	0.0	0.1	0.1	0.0	-	-	92.9	0.0	0.0	0.0	0.1	0.2	0.0	-	-	95.1
Metolachlor	74	0.1	DE, 2005	0.0	0.0	0.0	0.1	0.1	0.0	-	-	92.9	0.0	0.0	0.0	0.1	0.2	0.0	-	-	95.1
Metoxuron	27	0.005	NL, 1973	0.0	0.0	0.0	0.6	1.4	0.0	-	-	30.3	0.0	0.0	0.0	1.0	2.2	0.0	-	-	33.3
Metrafenone	15	0.25	EFSA, 2006	0.0	0.0	0.0	0.0	0.0	0.0	-	-	60.5	0.0	0.0	0.0	0.0	0.0	0.0	-	-	59.6
Metribuzin	30	0.013	EFSA, 2006	0.0	0.0	0.0	0.3	0.8	0.0	-	-	99.5	0.0	0.0	0.0	0.4	1.0	0.0	-	-	99.7
Mevinphos	**193**	**0.00025**	**BE, 2001**	**0.0**	**0.0**	**0.0**	**76.5**	**141.7**	**19.4**	**17.6**	**21.1**	**100.0**	**0.0**	**0.0**	**0.0**	**77.3**	**157.1**	**21.2**	**19.1**	**23.3**	**100.0**
Mirex	21	0.0002	EPA, 1992	0.0	0.0	0.0	20.3	42.3	0.04	-0.05	0.13	28.0	0.0	0.0	0.0	29.7	66.2	0.9	0.4	1.4	30.5
Monocrotophos	**193**	**0.0006**	**JMPR, 1993**	**0.0**	**0.0**	**0.0**	**54.9**	**106.0**	**7.0**	**5.9**	**8.2**	**98.9**	**0.0**	**0.0**	**0.0**	**49.7**	**107.3**	**6.4**	**5.1**	**7.6**	**97.1**
Myclobutanil	132	0.025	PRAPeR, 2007	0.0	0.0	0.0	0.5	0.8	0.0	-	-	91.3	0.0	0.0	0.0	0.5	1.0	0.0	-	-	90.4
Naled	**17**	**0.002**	**DAR, 2004**	**0.0**	**0.0**	**0.0**	**1.2**	**3.0**	**0.0**	**-**	**-**	**26.7**	**0.0**	**0.0**	**0.0**	**1.4**	**3.9**	**0.0**	**-**	**-**	**28.8**
Nitrothal-isopropyl	17	0.05	AUS, 1981	0.0	0.0	0.0	0.0	0.1	0.0	-	-	26.7	0.0	0.0	0.0	0.1	0.2	0.0	-	-	28.8
Nuarimol	17	0.021	BE, 1987	0.0	0.0	0.0	0.1	0.3	0.0	-	-	26.7	0.0	0.0	0.0	0.1	0.4	0.0	-	-	28.8
Ofurace	**63**	**0.0007**	**AUS, 1987**	**0.0**	**0.0**	**0.0**	**1.4**	**2.6**	**0.0**	**-**	**-**	**33.3**	**0.0**	**0.0**	**0.0**	**3.3**	**7.5**	**0.0**	**-**	**-**	**44.6**
Oxadixyl	132	0.01	FR	0.0	0.0	0.0	2.9	5.0	0.0	-	-	93.2	0.0	0.0	0.0	3.3	6.4	0.0	-	-	93.6
Oxamyl	65	0.001	EFSA, 2005	0.0	0.0	0.0	3.9	8.4	0.0	-	-	91.9	0.0	0.0	0.0	4.9	11.0	0.0	-	-	92.9
Oxydemeton-methyl*	**88**	**0.0003**	**EFSA, 2006**	**0.0**	**0.0**	**0.0**	**16.5**	**31.2**	**0.0**	**-**	**-**	**74.7**	**0.0**	**0.0**	**0.0**	**31.5**	**66.9**	**0.6**	**0.2**	**0.9**	**63.0**
Paraquat	8	0.004	COM, 2003	0.0	0.0	0.0	0.1	0.3	0.0	-	-	92.9	0.0	0.0	0.0	0.2	0.6	0.0	-	-	95.1

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
Parathion*	194	0.0006	ECCO, 2001	0.0	0.0	0.0	57.8	92.1	3.0	2.2	3.7	99.0	0.0	0.0	0.0	75.2	140.0	20.7	18.6	22.8	99.9
Parathion-methyl*	194	0.001	ECCO, 2002	0.0	0.0	0.0	30.9	50.0	0.0	-	-	91.8	0.0	0.0	0.0	40.5	75.3	1.1	0.5	1.6	93.1
Penconazole	132	0.03	DAR, 2007	0.0	0.0	0.0	0.7	1.3	0.0	-	-	92.6	0.0	0.0	0.0	0.8	1.5	0.0	-	-	90.8
Pencycuron	71	0.018	DAR, 2006	0.0	0.0	0.0	0.3	0.5	0.0	-	-	96.0	0.0	0.0	0.0	0.5	1.0	0.0	-	-	96.6
Pendimethalin	74	0.125	COM, 2003	0.0	0.0	0.0	0.0	0.1	0.0	-	-	82.5	0.0	0.0	0.0	0.1	0.1	0.0	-	-	84.4
Pentachlorophenol	21	0.03	EPA, 1993	0.0	0.0	0.0	0.1	0.2	0.0	-	-	28.0	0.0	0.0	0.0	0.1	0.3	0.0	-	-	30.5
Permethrin	132	0.05	JMPR, 1999	0.0	0.0	0.0	0.8	1.4	0.0	-	-	100.0	0.0	0.0	0.0	0.8	1.5	0.0	-	-	100.0
Phorate*	**169**	**0.0007**	**JMPR, 2004**	**0.0**	**0.0**	**0.0**	**104.6**	**171.8**	**49.5**	**47.3**	**51.8**	**92.7**	**0.0**	**0.0**	**0.0**	**148.9**	**289.5**	**71.9**	**69.6**	**74.2**	**94.2**
Phosalone	**194**	**0.01**	**EFSA, 2006**	**0.1**	**0.3**	**0.0**	**2.2**	**4.0**	**0.0**	**-**	**-**	**92.5**	**0.0**	**0.3**	**0.0**	**2.3**	**4.6**	**0.0**	**-**	**-**	**91.6**
Phosmet	**194**	**0.003**	**EFSA, 2006**	**0.1**	**0.7**	**0.0**	**7.0**	**12.5**	**0.0**	**-**	**-**	**90.4**	**0.1**	**0.5**	**0.0**	**7.7**	**15.0**	**0.0**	**-**	**-**	**88.4**
Phosphamidon	**168**	**0.0005**	**JMPR, 1986**	**0.0**	**0.0**	**0.0**	**38.8**	**72.2**	**0.7**	**0.3**	**1.1**	**94.3**	**0.0**	**0.0**	**0.0**	**38.9**	**80.2**	**2.1**	**1.4**	**2.9**	**95.5**
Phoxim	30	0.004	JECFA, 1999	0.0	0.0	0.0	1.1	2.6	0.0	-	-	49.5	0.0	0.0	0.0	1.2	3.1	0.0	-	-	63.3
Picoxystrobin	46	0.043	COM, 2003	0.0	0.0	0.0	0.1	0.2	0.0	-	-	86.6	0.0	0.0	0.0	0.2	0.4	0.0	-	-	90.9
Piperonyl butoxide	132	0.2	JMPR, 2001	0.1	0.2	0.0	0.1	0.2	0.0	-	-	73.8	0.1	0.3	0.0	0.2	0.4	0.0	-	-	65.2
Pirimiphos-ethyl	67	0.0002	AUS, 1978	0.0	0.0	0.0	46.0	90.2	3.0	2.3	3.8	59.5	0.0	0.0	0.0	44.4	91.1	4.3	3.2	5.3	47.8
Pirimiphos-methyl	**194**	**0.004**	**EFSA, 2005**	**1.8**	**3.4**	**0.0**	**5.2**	**8.6**	**0.0**	**-**	**-**	**88.6**	**2.9**	**5.9**	**0.0**	**7.4**	**13.9**	**0.0**	**-**	**-**	**87.3**
Prochloraz	**159**	**0.01**	**DAR, 2007**	**0.0**	**0.0**	**0.0**	**3.0**	**6.1**	**0.0**	**-**	**-**	**87.0**	**0.0**	**0.0**	**0.0**	**2.6**	**5.9**	**0.0**	**-**	**-**	**85.5**
Procymidone	132	0.025	DAR, 2007	0.1	0.5	0.0	0.7	1.4	0.0	-	-	90.2	0.1	0.5	0.0	0.9	1.8	0.0	-	-	90.1
Profenofos	117	0.03	JMPR, 2007	0.0	0.0	0.0	0.5	1.1	0.0	-	-	92.1	0.0	0.0	0.0	0.5	1.0	0.0	-	-	90.5
Promecarb	17	0.05	BE	0.0	0.0	0.0	0.0	0.1	0.0	-	-	26.7	0.0	0.0	0.0	0.1	0.2	0.0	-	-	28.8
Prometryn	59	0.04	BE, 1987	0.0	0.0	0.0	0.1	0.2	0.0	-	-	38.4	0.0	0.0	0.0	0.2	0.4	0.0	-	-	42.7
Propachlor	17	0.016	DAR, 2007	0.0	0.0	0.0	0.1	0.4	0.0	-	-	67.7	0.0	0.0	0.0	0.2	0.5	0.0	-	-	68.3
Propamocarb	17	0.29	EFSA, 2006	0.0	0.0	0.0	0.0	0.0	0.0	-	-	63.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-	63.8
Propargite	132	0.007	DAR, 2007	2.9	14.5	0.0	8.1	21.3	0.03	-0.05	0.10	72.3	2.2	11.5	0.0	7.4	18.7	0.03	-0.1	0.1	63.1
Propetamphos	17	0.001	AUS, 1985	0.0	0.0	0.0	2.4	6.0	0.0	-	-	26.7	0.0	0.0	0.0	2.8	7.9	0.0	-	-	28.8
Propham	88	0.02	EPA	0.0	0.0	0.0	0.8	1.5	0.0	-	-	100.0	0.0	0.0	0.0	0.9	1.9	0.0	-	-	100.0
Propiconazole	132	0.04	COM, 2003	0.0	0.0	0.0	0.5	1.0	0.0	-	-	94.0	0.0	0.0	0.0	0.5	1.1	0.0	-	-	91.6
Propoxur	63	0.02	JMPR, 1989	0.0	0.0	0.0	1.4	2.8	0.0	-	-	84.1	0.0	0.0	0.0	1.0	2.5	0.0	-	-	85.6
Propyzamide	132	0.02	COM, 2003	0.0	0.0	0.0	0.7	1.2	0.0	-	-	85.4	0.0	0.0	0.0	0.7	1.4	0.0	-	-	81.3
Prothiofos	30	0.0001	DE, 1998	0.0	0.0	0.0	33.5	79.9	1.8	1.2	2.4	31.8	0.0	0.0	0.0	38.2	97.3	4.9	3.8	6.0	32.9
Pymetrozine	40	0.03	COM, 2002	0.0	0.0	0.0	0.3	0.7	0.0	-	-	69.6	0.0	0.0	0.0	0.5	1.0	0.0	-	-	72.2
Pyraclostrobin	46	0.03	COM, 2004	0.0	0.0	0.0	0.1	0.1	0.0	-	-	58.0	0.0	0.0	0.0	0.1	0.3	0.0	-	-	61.2
Pyrazophos	99	0.001	ECCO, 1999	0.0	0.0	0.0	11.5	19.6	0.0	-	-	100.0	0.0	0.0	0.0	16.9	32.4	0.0	-	-	100.0

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
Pyrethrins	46	0.04	JMPR, 2003	0.0	0.0	0.0	0.1	0.1	0.0	-	-	42.0	0.0	0.0	0.0	0.1	0.2	0.0	-	-	50.7
Pyridaben	107	0.01	DAR, 2007	0.0	0.0	0.0	2.0	3.7	0.0	-	-	78.9	0.0	0.0	0.0	1.9	4.1	0.0	-	-	77.6
Pyridaphenthion	74	0.00085	JPN	0.0	0.0	0.0	9.9	18.0	0.0	-	-	41.2	0.0	0.0	0.0	14.3	29.0	0.0	-	-	45.2
Pyridate	17	0.036	COM, 2001	0.0	0.0	0.0	0.1	0.2	0.0	-	-	88.5	0.0	0.0	0.0	0.1	0.2	0.0	-	-	91.6
Pyrimethanil	132	0.17	EFSA, 2006	0.0	0.1	0.0	0.1	0.1	0.0	-	-	88.7	0.0	0.1	0.0	0.1	0.2	0.0	-	-	88.6
Pirimicarb	132	0.035	EFSA, 2006	0.0	0.0	0.0	0.3	0.6	0.0	-	-	83.5	0.0	0.0	0.0	0.4	0.7	0.0	-	-	81.9
Pyriproxyfen	132	0.1	JMPR, 2001	0.0	0.0	0.0	0.2	0.4	0.0	-	-	92.8	0.0	0.0	0.0	0.2	0.4	0.0	-	-	92.2
Quinalphos	**194**	**0.0005**	**EPA, 2010**	**0.0**	**0.0**	**0.0**	**53.5**	**90.7**	**3.0**	**2.2**	**3.8**	**100.0**	**0.0**	**0.0**	**0.0**	**63.5**	**121.2**	**10.7**	**9.1**	**12.3**	**100.0**
Quinoxyfen	117	0.2	COM, 2003	0.0	0.0	0.0	0.1	0.2	0.0	-	-	71.7	0.0	0.0	0.0	0.1	0.3	0.0	-	-	60.8
Quintozene *	132	0.01	ECCO, 2000	0.0	0.0	0.0	2.2	3.9	0.0	-	-	97.0	0.0	0.0	0.0	2.3	4.8	0.0	-	-	97.3
Rotenon	**41**	**0.001**	**FR, 2004**	**0.0**	**0.0**	**0.0**	**0.8**	**1.6**	**0.0**	**-**	**-**	**31.9**	**0.0**	**0.0**	**0.0**	**2.0**	**4.9**	**0.0**	**-**	**-**	**43.1**
Simazine	30	0.005	ECCO, 2003	0.0	0.0	0.0	0.9	2.1	0.0	-	-	53.7	0.0	0.0	0.0	1.0	2.5	0.0	-	-	50.4
Spiroxamine	88	0.025	COM, 1999	0.0	0.0	0.0	0.7	1.3	0.0	-	-	69.2	0.0	0.0	0.0	0.6	1.3	0.0	-	-	56.7
Sulfotep	**92**	**0.001**	**DE, 1990**	**0.0**	**0.0**	**0.0**	**11.4**	**21.9**	**0.0**	**-**	**-**	**41.3**	**0.0**	**0.0**	**0.0**	**23.9**	**53.5**	**0.1**	**-0.1**	**0.3**	**51.2**
Sulfur	17	1.5	DE, 2005	0.0	0.1	0.0	0.0	0.1	0.0	-	-	92.9	0.0	0.0	0.0	0.0	0.1	0.0	-	-	95.1
Tau-Fluvalinate	132	0.005	DAR, 2007	0.0	0.0	0.0	4.2	7.5	0.0	-	-	74.8	0.0	0.0	0.0	4.4	8.7	0.0	-	-	67.3
Tebuconazole	132	0.03	DAR, 2007	0.0	0.0	0.0	0.7	1.3	0.0	-	-	81.3	0.0	0.0	0.0	0.8	1.6	0.0	-	-	78.1
Tebufenozide	124	0.02	PRAPeR, 2007	0.0	0.0	0.0	0.5	0.8	0.0	-	-	66.2	0.0	0.0	0.0	0.7	1.3	0.0	-	-	82.6
Tebufenpyrad	74	0.01	PRAPeR, 2008	0.0	0.0	0.0	0.7	1.4	0.0	-	-	52.6	0.0	0.0	0.0	0.9	2.0	0.0	-	-	64.6
Tecnazene	74	0.02	JMPR, 1994	0.0	0.0	0.0	0.3	0.5	0.0	-	-	92.9	0.0	0.0	0.0	0.4	0.8	0.0	-	-	95.1
Teflubenzuron	40	0.01	DAR, 2007	0.0	0.0	0.0	7.8	17.9	0.0	-	-	64.1	0.0	0.1	0.0	12.1	27.1	0.0	-	-	62.4
Tefluthrin	74	0.005	DAR, 2006	0.0	0.0	0.0	1.5	2.7	0.0	-	-	47.5	0.0	0.0	0.0	2.2	4.6	0.0	-	-	49.6
Temefos	17	0.1	AUS, 1988	0.0	0.0	0.0	0.0	0.1	0.0	-	-	26.7	0.0	0.0	0.0	0.0	0.1	0.0	-	-	28.8
Terbufos	74	0.0006	JMPR, 2003	0.0	0.0	0.0	14.0	25.5	0.0	-	-	98.0	0.0	0.0	0.0	20.3	41.1	0.0	-	-	96.3
Tetrachlorvinphos	74	0.05	BE, 1988	0.0	0.0	0.0	0.1	0.2	0.0	-	-	41.2	0.0	0.0	0.0	0.2	0.4	0.0	-	-	45.2
Tetraconazole	99	0.004	EFSA, 2008	0.0	0.0	0.0	2.7	4.9	0.0	-	-	64.1	0.0	0.0	0.0	4.2	8.5	0.0	-	-	56.1
Tetradifon	132	0.015	DE, 2001	0.0	0.0	0.0	1.5	2.6	0.0	-	-	83.9	0.0	0.0	0.0	1.6	3.0	0.0	-	-	80.1
Tetramethrin	17	0.02	AUS, 1992	0.0	0.0	0.0	0.1	0.3	0.0	-	-	26.7	0.0	0.0	0.0	0.1	0.4	0.0	-	-	28.8
Thiabendazole	124	0.1	COM, 2001	0.2	0.9	0.0	0.3	0.9	0.0	-	-	85.0	0.2	0.8	0.0	0.3	0.9	0.0	-	-	84.5
Thiometon	**112**	**0.003**	**JMPR, 1979**	**0.0**	**0.0**	**0.0**	**3.6**	**6.9**	**0.0**	**-**	**-**	**66.6**	**0.0**	**0.0**	**0.0**	**3.5**	**7.8**	**0.0**	**-**	**-**	**63.5**
Tolclofos methyl	132	0.064	EFSA, 2005	0.0	0.0	0.0	0.2	0.3	0.0	-	-	84.1	0.0	0.0	0.0	0.2	0.4	0.0	-	-	81.1
Tolylfluanid	132	0.1	EFSA, 2005	0.0	0.0	0.0	0.2	0.4	0.0	-	-	89.9	0.0	0.0	0.0	0.2	0.5	0.0	-	-	88.5
Toxaphene	**62**	**0.000033**	**ATSDR, 2009**	**0.0**	**0.0**	**0.0**	**30.3**	**54.5**	**0.2**	**-0.01**	**0.38**	**92.9**	**0.0**	**0.0**	**0.0**	**69.7**	**157.6**	**20.8**	**18.7**	**22.9**	**95.1**
Tralomethrin	17	0.0075	EPA, 1990	0.0	0.0	0.0	0.3	0.8	0.0	-	-	26.7	0.0	0.0	0.0	0.4	1.0	0.0	-	-	28.8
Triadimenol *	132	0.05	EFSA, 2008	0.0	0.0	0.0	1.0	2.0	0.0	-	-	87.5	0.0	0.0	0.0	0.9	2.0	0.0	-	-	86.2
Tri-allate	**64**	**0.025**	**EFSA, 2008**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**-**	**-**	**33.4**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**	**0.0**	**-**	**-**	**44.7**

Active substance	No. foods	ADI (mg/kg bw/d)	Source (ADI)	Adults									Children								
				LB			UB						LB			UB					
				mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	mean (%ADI)	P95 (%ADI)	% > HBGV [CI95%]	lower CI	upper CI	Coverage of diet (%)
Triazophos	88	0.001	JMPR, 2002	0.0	0.0	0.0	17.6	33.6	0.0	-	-	100.0	0.0	0.0	0.0	15.5	33.9	0.0	-	-	100.0
Trichlorfon	30	0.002	JMPR, 2003	0.0	0.0	0.0	1.6	3.9	0.0	-	-	64.5	0.0	0.0	0.0	1.8	4.6	0.0	-	-	60.6
Trifloxystrobin	132	0.1	COM, 2003	0.0	0.0	0.0	0.1	0.2	0.0	-	-	85.1	0.0	0.0	0.0	0.1	0.3	0.0	-	-	82.3
Triflumuron	40	0.014	EFSA, 2008	0.0	0.0	0.0	1.2	2.7	0.0	-	-	75.0	0.0	0.0	0.0	1.9	4.0	0.0	-	-	68.6
Trifluralin	99	0.015	EFSA, 2005	0.0	0.0	0.0	0.6	1.0	0.0	-	-	83.8	0.0	0.0	0.0	0.9	1.7	0.0	-	-	86.8
Triforine	15	0.02	JMPR, 1997	0.0	0.0	0.0	0.1	0.2	0.0	-	-	55.7	0.0	0.0	0.0	0.1	0.2	0.0	-	-	56.2
Triticonazole	74	0.025	EFSA, 2006	0.0	0.0	0.0	0.3	0.5	0.0	-	-	92.9	0.0	0.0	0.0	0.4	0.9	0.0	-	-	95.1
Vamidothion	15	0.008	JMPR, 1988	0.0	0.0	0.0	0.1	0.4	0.0	-	-	29.1	0.0	0.0	0.0	0.1	0.4	0.0	-	-	30.5
Vinclozolin *	**194**	**0.005**	**COM, 2006**	**0.1**	**0.5**	**0.0**	**5.1**	**8.2**	**0.0**	**-**	**-**	**92.0**	**0.1**	**0.7**	**0.0**	**8.2**	**16.9**	**0.0**	**-**	**-**	**90.3**

* Grouping of substances and isomers, metabolites and/or degradation products according to the definition of the residue in a monitoring sense (Reg. (EC) No. 396/2005) and the analytical abilities, and adjustments according to the definition of the residue for the chronic risk assessment (conversion factors between brackets).
Aldicarb: combined total for aldicarb, aldicarb sulfoxide (0.92) and sulfone (0.86).
Atrazine: combined total for atrazine, atrazine desethyl (1.15), desisopropyl (1.24) and desethyl desisopropyl (1.48).
Carbendazim: combined total for carbendazim and (0.25 x thiophanate-methyl).
Chlordane: combined total for the alpha, beta and gamma isomers.
Cyhexatin: combined total for cyhexatin and azocyclotin.
DDT: combined total for p,p' DDT, o,p' DDT, p,p' DDE (1.1), p,p' TDE (DDD) (1.1).
Dicofol: combined total for p,p' and o,p' dicofol and p,p'-dichlorobenzophenone.
Dieldrin: combined total for Aldrin and Dieldrin.
Dimethoate: combined total for dimethoate and (3 x omethoate).
Endosulfan: combined total for the alpha and beta isomers and endosulfan sulfate (0.96).
Esfenvalerate: combined total for esfenvalerate and fenvalerate.
Fenamiphos: combined total for fenamiphos and fenamiphos sulfone (0.9).
Fenthion: combined total for fenthion, fenthion sulfone and sulfoxide.
HCH: combined total for the alpha, beta and delta isomers.
Heptachlor: Heptachlor, Heptachlor epoxide (cis and trans).
Malathion: malathion and malaoxon.
Methiocarb: methiocarb, methiocarb sulfoxide (0.93) and methiocarb sulfone (0.87).
Methomyl: Methomyl and thiodicarb (0.46).
Oxydemeton-methyl: oxidemeton-methyl and demeton S-methyl sulfone (0.94).
Parathion: parathion and paraoxon (1.06).
Parathion-methyl: parathion-methyl and paraoxon-methyl.
Phorate: phorate, phorate sulfoxide (1) and sulfone (0.89) (metabolites only screened for in foods of animal origin).
Quintozene: quintozene and pentachloroaniline (1.1) (fruits and vegetables only).
Triadimenol: triadimenol and triadimefon (1.01).
Vinclozolin: Vinclozolin and 3,5-dichloroaniline (1.76) (metabolite only screened for in vegetables and animal feeds).

Table G3: Summary of analytical results per active substance (priority substances in bold)

Active substance	Number of analyses conducted	minimum LOD (mg/kg)	maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)
2,4-D	57	0.0005	0.001	0	0		
2-Phenylphenol (OPP)	725	0.0010	0.250	7.9	3.9	0.010	0.130
Abamectin	75	0.0100	0.010	0	0		
Acephate	725	0.0050	0.050	0	0		
Acetamiprid	457	0.0005	0.010	0	0		
Acibenzolar-S-methyl	75	0.0050	0.005	0	0		
Acrinathrin	611	0.0010	0.010	0.49	0.49	0.010	0.020
Aldicarb*	**827**	**0.0005**	**0.020**	**0**	**0**		
Allethrin (bioallethrin)	211	0.0500	0.050	0	0		
Alphamethrin	487	0.0050	0.025	0	0		
Amitraz	313	0.0200	0.020	0	0		
Anthraquinone	286	0.0050	0.020	0	0		
Atrazine *	467	0.0001	0.020	0	0		
Azamethiphos	211	0.0200	0.020	0	0		
Azinphos-ethyl	388	0.0100	0.020	0	0		
Azinphos-methyl	**1235**	**0.0033**	**0.050**	**0.24**	**0.24**	**0.010**	**0.050**
Azoxystrobin	725	0.0030	0.050	1.1	0.69	0.010	0.040
Benalaxyl	512	0.0100	0.025	0	0		
Bendiocarb	286	0.0050	0.020	0	0		
Benfuracarb	75	0.0050	0.005	0	0		
Bifenthrin	725	0.0010	0.100	2.8	0.69	0.010	0.080
Binapacryl	286	0.0100	0.020	0	0		
Bioallethrin (Depallethrin)	211	0.0200	0.020	0	0		
Bioresmethrin	211	0.0200	0.020	0	0		
Biphenyl	**177**	**0.0050**	**0.005**	**0**	**0**		
Bitertanol	512	0.0050	0.025	0	0		
Boscalid	611	0.0020	0.010	3.4	3.1	0.010	0.250
Bromophos (bromophos-methyl)	400	0.0050	0.020	0	0		
Bromophos-ethyl	524	0.0050	0.020	0	0		
Bromopropylate	725	0.0030	0.025	0	0		
Bromuconazole	335	0.0100	0.020	0	0		
Bupirimate	713	0.0050	0.010	0.84	0.42	0.010	0.080
Buprofezin	713	0.0050	0.010	0	0		
Cadusafos	199	0.0050	0.005	0	0		
Captafol	286	0.0030	0.020	0	0		
Captan	1234	0.0030	0.250	0.16	0.16	0.030	0.030
Carbaryl	**1176**	**0.0017**	**0.025**	**0.09**	**0**		
Carbendazim*	**1143**	**0.0005**	**0.010**	**1.3**	**0.70**	**0.007**	**0.113**
Carbetamide	**494**	**0.0017**	**0.002**	**0**	**0**		
Carbofuran	**1127**	**0.0017**	**0.020**	**0.09**	**0.09**	**0.219**	**0.219**
carbophenothion	388	0.0050	0.020	0	0		
Carbosulfan	335	0.0100	0.020	0	0		
Carboxin	211	0.0200	0.020	0	0		
Chinomethionat	512	0.0050	0.020	0	0		
Chlordane*	**920**	**0.0030**	**0.020**	**0**	**0**		
Chlorfenvinphos	**1235**	**0.0017**	**0.010**	**0.32**	**0.32**	**0.020**	**0.200**
Chlorfluazuron	75	0.0100	0.010	0	0		
Chlormephos	512	0.0050	0.020	0	0		
Chlorobenzilate	75	0.0050	0.005	0	0		
Chlorofenizon	286	0.0050	0.020	0	0		
Chloropropylate	211	0.0200	0.020	0	0		
Chlorothalonil	**1235**	**0.0010**	**0.100**	**0.81**	**0.57**	**0.010**	**0.038**
Chlorpropham	725	0.0030	0.025	9.8	9.8	0.022	0.806
Chlorpyrifos-ethyl	**1235**	**0.0010**	**0.025**	**3.4**	**1.1**	**0.003**	**0.135**
Chlorpyrifos-methyl	**1235**	**0.0010**	**0.025**	**2.3**	**0.89**	**0.010**	**0.020**
Chlortal dimethyl	512	0.0010	0.010	1.8	0.98	0.010	0.020

Active substance	Number of analyses conducted	minimum LOD (mg/kg)	maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)
Chlozolinate	410	0.0030	0.020	0	0		
Clofentezine	544	0.0005	0.025	0	0		
Coumaphos	286	0.0200	0.020	0	0		
Cyanofenphos	211	0.0200	0.020	0	0		
Cyanophos	211	0.0200	0.020	0	0		
Cyfluthrin	524	0.0050	0.020	0.19	0		
Cyhexatin*	**195**	**0.0017**	**0.003**	**0**	**0**		
Cymoxanil	75	0.0100	0.010	0	0		
Cypermethrin	725	0.0050	0.025	0	0		
Cyproconazole	524	0.0020	0.100	0.19	0.19	0.030	0.030
Cyprodinil	725	0.0010	0.020	11.3	5.2	0.010	0.480
Cyromazine	75	0.0050	0.005	0	0		
DDT*	**1022**	**0.0010**	**0.020**	**0**	**0**		
Deltamethrin	**1235**	**0.0030**	**0.100**	**0**	**0**		
Desmetryne	211	0.0200	0.020	0	0		
dialiphos	211	0.0200	0.020	0	0		
Di-allate	510	0.0010	0.003	0	0		
Diazinon	**1233**	**0.0017**	**0.020**	**0.08**	**0**		
Dicamba	57	0.0005	0.001	0	0		
Dichlobenil	211	0.0200	0.020	0	0		
Dichlofenthion	177	0.0050	0.005	0	0		
Dichlofluanid	725	0.0030	0.050	0	0		
Dichloran	286	0.0050	0.005	0	0		
Dichlorprop-P	124	0.0100	0.010	0	0		
Dichlorvos	**860**	**0.0017**	**0.050**	**0.12**	**0**		
Diclobutrazol	286	0.0100	0.020	0	0		
Dicofol*	**1235**	**0.0017**	**0.020**	**0**	**0**		
Dieldrin*	**1235**	**0.0010**	**0.020**	**0**	**0**		
Dienochlor	211	0.0200	0.020	0	0		
Diethofencarb	422	0.0050	0.100	0.24	0.24	0.300	0.300
Difenoconazole	623	0.0050	0.100	0	0		
Diflubenzuron	276	0.0030	0.050	0.36	0		
Dimethoate*	**1219**	**0.0017**	**0.100**	**0.25**	**0.25**	**0.025**	**0.280**
Dimethomorph	400	0.0100	0.010	0	0		
Diniconazole	223	0.0200	0.100	0	0		
Dinocap	75	0.0100	0.010	0	0		
Dioxacarb	211	0.0200	0.020	0	0		
Diphenylamine	725	0.0010	0.100	4.4	3.7	0.010	0.370
Diquat	**131**	**0.0033**	**0.003**	**0**	**0**		
Disulfoton	**451**	**0.0100**	**0.020**	**0**	**0**		
Ditalimfos	211	0.0200	0.020	0	0		
Dithiocarbamates	**562**	**0.0033**	**0.200**	**0**	**0**		
Diuron	75	0.0100	0.010	0	0		
Endosulfan*	**1235**	**0.0010**	**0.025**	**0.24**	**0.08**	**0.072**	**0.072**
Endrin	**1022**	**0.0010**	**0.020**	**0**	**0**		
Endrin-ketone	510	0.0017	0.002	0	0		
Epoxiconazole	199	0.0050	0.010	0	0		
Esfenvalerate*	725	0.0050	0.100	0	0		
Ethiofencarb	211	0.0200	0.020	0	0		
Ethion	**1235**	**0.0010**	**0.020**	**0.49**	**0.08**	**0.042**	**0.042**
Ethirimol	211	0.0200	0.020	0	0		
Ethoprophos	713	0.0050	0.020	0	0		
Ethoxyquin	**391**	**0.0050**	**0.033**	**0.77**	**0.51**	**0.034**	**0.060**
Etofenprox	75	0.0030	0.005	1.3	1.3	0.090	0.090
Etridiazole	211	0.0200	0.020	0	0		
Etrimfos	286	0.0050	0.020	0	0		
Fenamidone	75	0.0050	0.005	0	0		
Fenamiphos *	335	0.0050	0.020	0	0		

Active substance	Number of analyses conducted	minimum LOD (mg/kg)	maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)
Fenarimol	713	0.0050	0.020	0	0		
Fenazaquin	75	0.0050	0.005	0	0		
Fenbuconazole	410	0.0050	0.020	0.49	0.49	0.040	0.100
Fenbutatin oxide	**135**	**0.0017**	**0.002**	**0**	**0**		
Fenchlorphos	388	0.0050	0.020	0	0		
Fenhexamid	713	0.0050	0.050	1.8	1.8	0.020	0.430
Fenitrothion	**1235**	**0.0010**	**0.025**	**0.08**	**0**		
Fenoxycarb	286	0.0100	0.020	0	0		
Fenpropathrin	725	0.0050	0.020	0	0		
Fenpropidin	124	0.0050	0.005	0	0		
Fenpropimorph	**527**	**0.0017**	**0.020**	**0**	**0**		
Fenpyroximate	75	0.0050	0.005	0	0		
Fenson	211	0.0200	0.020	0	0		
Fenthion*	**1235**	**0.0017**	**0.050**	**0**	**0**		
Fentin acetate	**195**	**0.0017**	**0.003**	**0**	**0**		
Fentin hydroxide	**195**	**0.0017**	**0.003**	**0**	**0**		
Fipronil	199	0.0050	0.010	0	0		
Fluazifop-P-butyl	335	0.0100	0.500	0	0		
Flubenzimine	211	0.0200	0.020	0	0		
Fludioxonil	725	0.0010	0.020	4.7	4.0	0.010	1.830
Flufenoxuron	75	0.0050	0.005	0	0		
Fluquinconazole	199	0.0050	0.010	0	0		
Flusilazole	611	0.0050	0.010	0	0		
Flutolanil	313	0.0100	0.020	0	0		
Flutriafol	410	0.0050	0.020	0.24	0.24	0.360	0.360
Fluvalinate	286	0.0050	0.020	0	0		
Folpet	**1235**	**0.0010**	**0.250**	**0.08**	**0.08**	**0.110**	**0.110**
Fonofos	524	0.0050	0.020	0	0		
Formothion	335	0.0050	0.020	0	0		
Furalaxyl	286	0.0100	0.020	0	0		
Furathiocarb	286	0.0100	0.020	0	0		
Haloxyfop	124	0.0100	0.010	0	0		
HCH*	**1034**	**0.0017**	**0.010**	**0**	**0**		
Heptachlor*	**1022**	**0.0010**	**0.020**	**0**	**0**		
Heptenophos	713	0.0050	0.010	0	0		
Hexachlorobenzene	**1223**	**0.0010**	**0.009**	**0.33**	**0**		
Hexaconazole	623	0.0050	0.100	0	0		
Hexaflumuron	75	0.0100	0.010	0	0		
Hexythiazox	276	0.0100	0.050	0	0		
Hydroxycarbofuran-3	211	0.0500	0.050	0	0		
Imazalil	**1072**	**0.0017**	**0.100**	**1.1**	**0.65**	**0.070**	**1.993**
Imidacloprid	333	0.0005	0.007	0.60	0		
Indoxacarb	276	0.0050	0.025	0	0		
Iodofenphos	313	0.0050	0.020	0	0		
Iprodione	**1235**	**0.0020**	**0.020**	**3.9**	**3.7**	**0.010**	**3.500**
Iprovalicarb	303	0.0100	0.020	0	0		
Isazofos	211	0.0200	0.020	0	0		
Isofenphos	388	0.0050	0.020	0	0		
Isofenphos-methyl	713	0.0050	0.020	0	0		
Kresoxim-methyl	725	0.0010	0.100	0.28	0.14	0.010	0.010
Lambda-Cyhalothrin	725	0.0020	0.100	2.1	0.97	0.010	0.200
Lindane (gamma HCH)	**1235**	**0.0010**	**0.020**	**0.24**	**0.08**	**0.043**	**0.043**
Linuron	276	0.0100	0.010	0	0		
Malathion*	**1235**	**0.0017**	**0.020**	**0.16**	**0**		
Mecarbam	713	0.0030	0.010	0	0		
Mepanipyrim	713	0.0030	0.050	0.70	0.28	0.020	0.040
Mepiquat	75	0.0100	0.010	0	0		
Mepronil	725	0.0050	0.020	0	0		

Active substance	Number of analyses conducted	minimum LOD (mg/kg)	maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)
Metalaxyl-M (Mefenoxam)	725	0.0050	0.050	3.3	1.4	0.010	0.050
Metconazole	410	0.0050	0.020	0	0		
Methacrifos	410	0.0050	0.020	0	0		
Methamidophos	725	0.0050	0.050	0	0		
Methidathion	1235	0.0017	0.025	0	0		
Methiocarb*	544	0.0001	0.200	0	0		
Methomyl*	**827**	**0.0005**	**0.010**	**0.24**	**0**		
Methoxychlor	410	0.0050	0.020	0	0		
Metolachlor	410	0.0050	0.020	0	0		
Metoxuron	201	0.0100	0.010	0	0		
Metrafenone	75	0.0050	0.005	0	0		
Metribuzin	286	0.0100	0.020	0	0		
Mevinphos	**1207**	**0.0017**	**0.020**	**0**	**0**		
Mirex	223	0.0200	0.020	0	0		
Monalid	211	0.0200	0.020	0	0		
Monocrotophos	**1202**	**0.0017**	**0.020**	**0**	**0**		
Myclobutanil	725	0.0020	0.020	1.2	0.69	0.010	0.040
Naled	**211**	**0.0200**	**0.020**	**0**	**0**		
Nitrofen	124	0.0050	0.005	0	0		
Nitrothal-isopropyl	211	0.0200	0.020	0	0		
Nuarimol	211	0.0200	0.020	0	0		
Ofurace	**494**	**0.0017**	**0.002**	**0**	**0**		
Oxadixyl	725	0.0030	0.100	0	0		
Oxamyl	333	0.0005	0.010	0	0		
Oxydemeton-methyl*	**695**	**0.0017**	**0.010**	**0**	**0**		
Paraquat	63	0.0033	0.003	0	0		
Parathion*	**1235**	**0.0017**	**0.020**	**0**	**0**		
Parathion-methyl*	1235	0.0017	0.020	0	0		
Penconazole	725	0.0010	0.025	1.10	0		
Pencycuron	325	0.0050	0.010	0	0		
Pendimethalin	410	0.0050	0.020	0	0		
pentachloroanisole	286	0.0030	0.020	0	0		
pentachlorophenol	223	0.0050	0.020	0	0		
Pentachlorophenol acetate	211	0.0200	0.020	0	0		
Permethrin	725	0.0030	0.100	0.14	0		
Phorate*	**1022**	**0.0017**	**0.100**	**0**	**0**		
Phosalone	**1235**	**0.0017**	**0.025**	**0.49**	**0.40**	**0.010**	**0.040**
Phosmet	**1235**	**0.0030**	**0.020**	**0.73**	**0.57**	**0.010**	**0.048**
Phosmet oxon	494	0.0333	0.033	0	0		
Phosphamidon	1006	0.0017	0.020	0	0		
Phoxim	286	0.0100	0.020	0	0		
Picoxystrobin	124	0.0100	0.010	0	0		
Piperonyl butoxide	725	0.0020	0.040	18.2	16.8	0.010	0.330
Pirimiphos-ethyl	400	0.0030	0.020	0	0		
Pirimiphos-methyl	**1235**	**0.0010**	**0.025**	**7.2**	**5.3**	**0.005**	**0.085**
Prochloraz	**927**	**0.0017**	**0.020**	**0**	**0**		
Procymidone	725	0.0010	0.025	3.6	3.0	0.010	0.800
Profenofos	502	0.0050	0.010	0	0		
Promecarb	211	0.0200	0.020	0	0		
Prometryn	199	0.0050	0.010	0	0		
Propachlor	211	0.0200	0.020	0	0		
Propamocarb	211	0.0200	0.020	0	0		
Propargite	725	0.0030	0.025	1.4	1.4	0.090	0.850
Propetamphos	211	0.0200	0.020	0	0		
Propham	601	0.0050	0.025	0	0		
Propiconazole	725	0.0050	0.100	0	0		
Propoxur	388	0.0100	0.020	0	0		
Propyzamide	725	0.0050	0.010	0	0		

Active substance	Number of analyses conducted	minimum LOD (mg/kg)	maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)
Prothiofos	286	0.0050	0.020	0	0		
Pymetrozine	276	0.0100	0.025	0	0		
Pyraclostrobin	124	0.0050	0.005	0	0		
Pyrazophos	611	0.0100	0.020	0	0		
Pyrethrins	124	0.0050	0.005	0	0		
Pyridaben	512	0.0100	0.020	0	0		
Pyridaphenthion	410	0.0100	0.020	0	0		
Pyridate	211	0.0200	0.020	0	0		
Pyrimethanil	725	0.0010	0.050	7.4	3.4	0.010	0.320
Pirimicarb	713	0.0020	0.010	1.12	0		
Pyriproxyfen	713	0.0010	0.010	0.42	0.28	0.010	0.018
Quinalphos	**1223**	**0.0033**	**0.020**	**0**	**0**		
Quinoxyfen	502	0.0030	0.020	0.80	0.40	0.020	0.030
Quintozene *	725	0.0050	0.100	0	0		
Rotenon	**348**	**0.0017**	**0.002**	**0**	**0**		
Simazine	286	0.0100	0.020	0	0		
Spiroxamine	589	0.0010	0.020	0.85	0		
Sulfotep	**796**	**0.0083**	**0.020**	**0**	**0**		
Sulfur	211	0.1000	0.100	11.8	0.47	8.730	8.730
Tau-Fluvalinate	725	0.0050	0.020	0	0		
Tebuconazole	725	0.0020	0.100	0.69	0.28	0.010	0.010
Tebufenozide	668	0.0005	0.010	0.15	0		
Tebufenpyrad	410	0.0020	0.025	0.24	0		
Tecnazene	410	0.0050	0.020	0	0		
Teflubenzuron	276	0.0020	0.250	2.2	0.36	0.050	0.050
Tefluthrin	410	0.0050	0.020	0	0		
Temefos	211	0.0200	0.020	0	0		
Terbufos	410	0.0100	0.020	0	0		
Tetrachlorvinphos	410	0.0050	0.010	0	0		
Tetraconazole	623	0.0050	0.100	0.16	0		
Tetradifon	725	0.0020	0.020	0.41	0.28	0.020	0.020
Tetramethrin	211	0.0200	0.020	0	0		
Tetrasul	211	0.0200	0.020	0	0		
Thiabendazole	681	0.0001	0.020	4.6	3.8	0.017	0.960
Thiometon	**844**	**0.0017**	**0.020**	**0**	**0**		
Tolclofos methyl	725	0.0050	0.010	0	0		
Tolylfluanid	725	0.0050	0.025	0	0		
Toxaphene	**510**	**0.0017**	**0.002**	**0**	**0**		
Tralomethrin	211	0.0200	0.020	0	0		
Triadimenol *	725	0.0020	0.010	0.69	0.55	0.020	0.060
Tri-allate	**510**	**0.0010**	**0.002**	**0**	**0**		
Triazophos	589	0.0100	0.010	0	0		
Tribromoanisole	288	0.0050	0.005	0	0		
Tribromophenol (2,4,6)	288	0.0050	0.005	0	0		
Trichlorfon	286	0.0100	0.010	0	0		
Trichloronat	388	0.0050	0.020	0	0		
Trifloxystrobin	713	0.0030	0.025	0.28	0		
Triflumuron	276	0.0020	0.050	2.2	0.72	0.020	0.044
Trifluralin	611	0.0050	0.010	0	0		
Triforine	75	0.0050	0.005	0	0		
Triticonazole	410	0.0050	0.020	0	0		
Vamidothion	75	0.0050	0.005	0	0		
Vinclozolin*	**1235**	**0.0050**	**0.025**	**0.32**	**0.16**	**0.020**	**0.210**

* See Table G2: grouping of substances and isomers, metabolites and/or degradation products according to the definition of the residue.

Table G4: Summary of analytical results per pesticide-food group combination concerned by at least one detection (priority substances in bold)

Active substance	Food group	Number of analyses conducted	Minimum LOD (mg/kg)	Maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)	Mean contamination (LB) (mg/kg)	Mean contamination (UB) (mg/kg)
2-Phenylphenol (OPP)	Soft drinks	26	0.0030	0.0050	11.5	11.5	0.044	0.130	0.0086	0.013
	Compotes and cooked fruit	8	0.0030	0.0030	12.5	0.0			0.0004	0.005
	Fruits	75	0.0030	0.0050	10.7	2.7	0.021	0.033	0.0010	0.006
	Vegetables**	267	0.0010	0.2500	13.9	6.7	0.010	0.070	0.0016	0.020
	Bread and dried bread products	14	0.0030	0.0030	14.3	7.1	0.017	0.017	0.0014	0.005
	Pastries and cakes	18	0.0030	0.0030	5.6	0.0			0.0002	0.004
	Mixed dishes	61	0.0050	0.2500	1.6	1.6	0.011	0.011	0.0001	0.248
	Potatoes and potato products	48	0.0050	0.2500	2.1	2.1	0.063	0.063	0.0013	0.227
	Soups and broths	22	0.0050	0.2500	4.5	0.0			0.0001	0.246
	Croissant-like pastries	6	0.0030	0.0030	33.3	33.3	0.027	0.055	0.0137	0.016
Acrinathrin	Fruits	75	0.0010	0.0030	4.0	4.0	0.010	0.020	0.0004	0.003
Azinphos-methyl	**Fruits**	**75**	**0.0050**	**0.0100**	**4.0**	**4.0**	**0.010**	**0.050**	**0.0004**	**0.010**
Azoxystrobin	Sweet and savoury biscuits and bars	24	0.0070	0.0500	4.2	4.2	0.033	0.033	0.0033	0.013
	Fruits	75	0.0030	0.0050	5.3	4.0	0.010	0.040	0.0006	0.005
	Vegetables**	267	0.0050	0.0500	0.4	0.4	0.012	0.012	0.0001	0.021
	Soups and broths	22	0.0050	0.0200	9.1	0.0			0.0002	0.020
Bifenthrin	Fruits	75	0.0010	0.0030	13.3	4.0	0.010	0.020	0.0003	0.004
	Vegetables**	267	0.0020	0.1000	3.7	0.7	0.060	0.080	0.0005	0.021
Boscalid	Fruits	75	0.0030	0.0050	22.7	20.0	0.010	0.090	0.0039	0.007
	Vegetables**	263	0.0020	0.0100	1.5	1.5	0.030	0.250	0.0013	0.010
Bupirimate	Fruits	75	0.0050	0.0100	6.7	4.0	0.010	0.080	0.0014	0.011
	Vegetables**	263	0.0050	0.0100	0.4	0.0			0.0000	0.006
Captan	Fruits	75	0.0030	0.0030	2.7	2.7	0.030	0.030	0.0003	0.003
Carbaryl	**Ultra-fresh dairy products**	**63**	**0.0017**	**0.0020**	**1.6**	**0.0**			**0.0000**	**0.002**
Carbendazim*	**Water**	**38**	**0.0001**	**0.0001**	**2.6**	**2.6**	**0.007**	**0.007**	**0.0002**	**0.000**
	Fruits	**75**	**0.0020**	**0.0100**	**18.7**	**9.3**	**0.030**	**0.110**	**0.0022**	**0.010**
Carbofuran	**Vegetables****	**263**	**0.0050**	**0.0200**	**0.4**	**0.4**	**0.219**	**0.219**	**0.0009**	**0.017**
Chlorfenvinphos	**Vegetables****	**267**	**0.0020**	**0.0100**	**1.5**	**1.5**	**0.020**	**0.200**	**0.0011**	**0.009**
Chlorothalonil	**Vegetables****	**267**	**0.0010**	**0.1000**	**3.7**	**2.6**	**0.010**	**0.038**	**0.0005**	**0.006**
Chlorpropham	Sweet and savoury biscuits and bars	24	0.0030	0.0150	66.7	66.7	0.041	0.806	0.0697	0.072
	Mixed dishes	61	0.0050	0.0100	16.4	16.4	0.028	0.089	0.0054	0.010
	Potatoes and potato products	48	0.0050	0.0150	87.5	87.5	0.023	0.730	0.1491	0.150
	Sandwiches and snacks	30	0.0050	0.0060	3.3	3.3	0.092	0.092	0.0029	0.008
	Soups and broths	22	0.0050	0.0100	9.1	9.1	0.022	0.023	0.0032	0.010

Active substance	Food group	Number of analyses conducted	Minimum LOD (mg/kg)	Maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)	Mean contamination (LB) (mg/kg)	Mean contamination (UB) (mg/kg)
Chlorpyrifos-ethyl	**Delicatessen meats**	**80**	**0.0010**	**0.0010**	**2.5**	**1.3**	**0.003**	**0.003**	**0.0001**	**0.001**
	Fruits	**75**	**0.0010**	**0.0040**	**48.0**	**17.3**	**0.010**	**0.135**	**0.0042**	**0.008**
	Vegetables**	**267**	**0.0010**	**0.0250**	**1.5**	**0.0**			**0.0001**	**0.020**
Chlorpyrifos-methyl	**Sweet and savoury biscuits and bars**	**24**	**0.0030**	**0.0100**	**8.3**	**0.0**			**0.0013**	**0.007**
	Fruits	**75**	**0.0010**	**0.0030**	**4.0**	**1.3**	**0.020**	**0.020**	**0.0001**	**0.003**
	Vegetables**	**267**	**0.0030**	**0.0250**	**0.4**	**0.0**			**0.0000**	**0.020**
	Pulses	**18**	**0.0030**	**0.0050**	**5.6**	**0.0**			**0.0002**	**0.004**
	Bread and dried bread products	**14**	**0.0030**	**0.0030**	**64.3**	**21.4**	**0.011**	**0.015**	**0.0041**	**0.008**
	Mixed dishes	**79**	**0.0010**	**0.0050**	**2.5**	**2.5**	**0.011**	**0.012**	**0.0003**	**0.004**
	Rice and wheat products	**6**	**0.0030**	**0.0030**	**16.7**	**0.0**			**0.0005**	**0.004**
	Sandwiches and snacks	**30**	**0.0050**	**0.0050**	**23.3**	**16.7**	**0.010**	**0.016**	**0.0025**	**0.007**
	Croissant-like pastries	**6**	**0.0030**	**0.0050**	**33.3**	**0.0**			**0.0017**	**0.009**
Chlortal dimethyl	Vegetables**	255	0.0010	0.0100	3.5	2.0	0.010	0.020	0.0003	0.006
Cyfluthrin	Fruits	75	0.0050	0.0050	1.3	0.0			0.0000	0.005
Cyproconazole	Vegetables**	259	0.0020	0.1000	0.4	0.4	0.030	0.030	0.0001	0.019
Cyprodinil	Fruits	75	0.0010	0.0020	37.3	24.0	0.010	0.090	0.0073	0.009
	Vegetables**	267	0.0010	0.0200	18.7	6.0	0.010	0.480	0.0051	0.011
	Sandwiches and snacks	30	0.0050	0.0050	13.3	13.3	0.010	0.032	0.0022	0.007
Diazinon	**Delicatessen meats**	**80**	**0.0030**	**0.0033**	**1.3**	**0.0**			**0.0001**	**0.003**
Dichlorvos	**Fruits**	**75**	**0.0050**	**0.0100**	**1.3**	**0.0**			**0.0000**	**0.010**
Diethofencarb	Vegetables**	259	0.0050	0.1000	0.4	0.4	0.300	0.300	0.0010	0.008
Diflubenzuron	Fruits	75	0.0030	0.0050	1.3	0.0			0.0000	0.005
Dimethoate*	**Fruits**	**75**	**0.0050**	**0.0100**	**2.7**	**2.7**	**0.180**	**0.280**	**0.0285**	**0.061**
	Vegetables**	**267**	**0.0060**	**0.0500**	**0.4**	**0.4**	**0.025**	**0.025**	**0.0003**	**0.063**
Diphenylamine	Compotes and cooked fruit	8	0.0030	0.0050	37.5	37.5	0.020	0.040	0.0113	0.014
	Dairy-based desserts	2	0.0050	0.0060	50.0	0.0			0.0030	0.013
	Fruits	75	0.0010	0.0030	36.0	32.0	0.010	0.370	0.0127	0.015
	Vegetables**	267	0.0010	0.1000	0.4	0.0			0.0000	0.021
Endosulfan*	**Fruits**	**75**	**0.0020**	**0.0050**	**4.0**	**1.3**	**0.072**	**0.072**	**0.0008**	**0.010**
Ethion	**Delicatessen meats**	**80**	**0.0017**	**0.0020**	**3.8**	**0.0**			**0.0001**	**0.002**
	Fruits	**75**	**0.0010**	**0.0030**	**1.3**	**0.0**			**0.0000**	**0.003**
	Soups and broths	**22**	**0.0050**	**0.0050**	**9.1**	**4.5**	**0.042**	**0.042**	**0.0007**	**0.006**
Ethoxyquin	**Compotes and cooked fruit**	**8**	**0.0050**	**0.0050**	**12.5**	**0.0**			**0.0006**	**0.007**
	Fruits	**2**	**0.0100**	**0.0100**	**100.0**	**100.0**	**0.034**	**0.060**	**0.0470**	**0.047**
Etofenprox	Fruits	75	0.0030	0.0050	1.3	1.3	0.090	0.090	0.0004	0.005
Fenbuconazole	Fruits	75	0.0050	0.0200	2.7	2.7	0.040	0.100	0.0054	0.010
Fenhexamid	Fruits	75	0.0050	0.0100	17.3	17.3	0.020	0.430	0.0111	0.020
Fenitrothion	**Vegetables****	**267**	**0.0050**	**0.0250**	**0.4**	**0.0**			**0.0000**	**0.020**

Active substance	Food group	Number of analyses conducted	Minimum LOD (mg/kg)	Maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)	Mean contamination (LB) (mg/kg)	Mean contamination (UB) (mg/kg)
Fludioxonil	Alcoholic beverages	8	0.0070	0.0100	12.5	0.0			0.0009	0.011
	Fruits	75	0.0050	0.0050	34.7	32.0	0.010	0.051	0.0050	0.009
	Vegetables**	267	0.0010	0.0200	2.2	1.9	0.010	1.830	0.0141	0.019
	Sandwiches and snacks	30	0.0050	0.0050	3.3	0.0			0.0002	0.005
Flutriafol	Vegetables**	255	0.0050	0.0200	0.4	0.4	0.360	0.360	0.0019	0.020
Folpet	**Fruits**	**75**	**0.0010**	**0.0030**	**1.3**	**1.3**	**0.110**	**0.110**	**0.0005**	**0.004**
Hexachlorobenzene	**Delicatessen meats**	**80**	**0.0017**	**0.0020**	**3.8**	**0.0**			**0.0001**	**0.002**
	Poultry and game	**38**	**0.0017**	**0.0020**	**2.6**	**0.0**			**0.0000**	**0.002**
Imazalil	**Soft drinks**	**26**	**0.0200**	**0.1000**	**3.8**	**3.8**	**0.140**	**0.140**	**0.0054**	**0.031**
	Crustaceans and molluscs	**1**	**0.0020**	**0.0020**	**100.0**	**0.0**			**0.0020**	**0.005**
	Dairy-based desserts	**28**	**0.0017**	**0.0100**	**7.1**	**0.0**			**0.0002**	**0.003**
	Fruits	**75**	**0.0200**	**0.0200**	**8.0**	**5.3**	**0.070**	**0.240**	**0.0244**	**0.042**
	Potatoes and potato products	**48**	**0.0100**	**0.1000**	**4.2**	**4.2**	**0.630**	**1.993**	**0.0546**	**0.072**
Imidacloprid	Vegetables**	8	0.0050	0.0070	25.0	0.0			0.0015	0.008
Iprodione	**Alcoholic beverages**	**8**	**0.0100**	**0.0100**	**12.5**	**12.5**	**0.020**	**0.020**	**0.0025**	**0.011**
	Fruits	**75**	**0.0050**	**0.0050**	**26.7**	**26.7**	**0.010**	**0.155**	**0.0271**	**0.030**
	Vegetables**	**267**	**0.0020**	**0.0200**	**9.4**	**9.0**	**0.020**	**3.500**	**0.0400**	**0.048**
	Mixed dishes	**79**	**0.0050**	**0.0167**	**1.3**	**0.0**			**0.0000**	**0.010**
	Sandwiches and snacks	**30**	**0.0060**	**0.0100**	**3.3**	**3.3**	**0.190**	**0.190**	**0.0068**	**0.016**
Kresoxim-methyl	Fruits	75	0.0010	0.0050	2.7	1.3	0.010	0.010	0.0001	0.005
Lambda-Cyhalothrin	Fruits	75	0.0020	0.0050	12.0	4.0	0.010	0.016	0.0012	0.006
	Vegetables**	267	0.0020	0.1000	2.2	1.5	0.030	0.200	0.0011	0.012
Lindane (gamma HCH)	**Eggs and egg products**	**30**	**0.0030**	**0.0033**	**3.3**	**0.0**			**0.0001**	**0.004**
	Meat	**64**	**0.0017**	**0.0020**	**1.6**	**0.0**			**0.0000**	**0.002**
	Poultry and game	**38**	**0.0017**	**0.0020**	**2.6**	**2.6**	**0.043**	**0.043**	**0.0007**	**0.002**
Malathion*	**Mixed dishes**	**79**	**0.0017**	**0.0100**	**2.5**	**0.0**			**0.0001**	**0.008**
Mepanipyrim	Fruits	75	0.0030	0.0100	6.7	2.7	0.020	0.040	0.0005	0.011
Metalaxyl-M (Mefenoxam)	Soft drinks	26	0.0050	0.0050	3.8	0.0			0.0002	0.005
	Fruits	75	0.0050	0.0050	6.7	4.0	0.010	0.020	0.0004	0.005
	Vegetables**	267	0.0050	0.0500	6.7	2.6	0.010	0.050	0.0010	0.010
Methomyl*	**Fruits**	**75**	**0.0030**	**0.0100**	**2.7**	**0.0**			**0.0000**	**0.008**
Myclobutanil	Fruits	75	0.0020	0.0050	9.3	6.7	0.010	0.040	0.0006	0.006
	Vegetables**	267	0.0050	0.0200	0.4	0.0			0.0000	0.009
	Soups and broths	22	0.0050	0.0070	4.5	0.0			0.0001	0.005
Penconazole	Fruits	75	0.0010	0.0100	10.7	0.0			0.0004	0.011

Active substance	Food group	Number of analyses conducted	Minimum LOD (mg/kg)	Maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)	Mean contamination (LB) (mg/kg)	Mean contamination (UB) (mg/kg)
Permethrin	Vegetables**	267	0.0030	0.1000	0.4	0.0			0.0000	0.012
Phosalone	**Delicatessen meats**	**80**	**0.0030**	**0.0033**	**1.3**	**0.0**			**0.0001**	**0.003**
	Fruits	**75**	**0.0030**	**0.0100**	**6.7**	**6.7**	**0.010**	**0.040**	**0.0006**	**0.010**
Phosmet	**Fruits**	**75**	**0.0030**	**0.0100**	**12.0**	**9.3**	**0.010**	**0.048**	**0.0012**	**0.011**
Piperonyl butoxide	Sweet and savoury biscuits and bars	24	0.0030	0.0100	20.8	16.7	0.045	0.067	0.0226	0.027
	Breakfast cereals	6	0.0030	0.0100	50.0	33.3	0.026	0.054	0.0142	0.018
	Dairy-based desserts	2	0.0050	0.0050	50.0	50.0	0.025	0.025	0.0125	0.015
	Vegetables**	267	0.0030	0.0250	0.4	0.4	0.011	0.011	0.0001	0.019
	Pulses	18	0.0020	0.0050	88.9	83.3	0.030	0.330	0.0730	0.075
	Bread and dried bread products	14	0.0030	0.0100	85.7	85.7	0.020	0.116	0.0496	0.050
	Pasta	4	0.0030	0.0100	100.0	75.0	0.012	0.039	0.0198	0.025
	Pastries and cakes	18	0.0030	0.0100	83.3	72.2	0.030	0.097	0.0361	0.039
	Pizzas, quiches and savoury pastries	2	0.0050	0.0050	50.0	50.0	0.054	0.054	0.0270	0.030
	Mixed dishes	61	0.0020	0.0400	55.7	50.8	0.011	0.300	0.0464	0.049
	Rice and wheat products	6	0.0030	0.0050	83.3	66.7	0.016	0.080	0.0273	0.030
	Sandwiches and snacks	30	0.0020	0.0200	96.7	96.7	0.010	0.270	0.0703	0.070
	Soups and broths	22	0.0050	0.0050	4.5	4.5	0.020	0.020	0.0025	0.007
	Croissant-like pastries	6	0.0030	0.0100	83.3	83.3	0.047	0.085	0.0575	0.058
Pirimiphos-methyl	**Sweet and savoury biscuits and bars**	**24**	**0.0030**	**0.0200**	**29.2**	**12.5**	**0.037**	**0.063**	**0.0184**	**0.028**
	Breakfast cereals	**6**	**0.0030**	**0.0090**	**33.3**	**0.0**			**0.0023**	**0.010**
	Chocolate	**8**	**0.0050**	**0.0050**	**12.5**	**0.0**			**0.0006**	**0.006**
	Dairy-based desserts	**28**	**0.0020**	**0.0050**	**10.7**	**10.7**	**0.010**	**0.030**	**0.0037**	**0.007**
	Vegetables**	**267**	**0.0010**	**0.0250**	**0.4**	**0.4**	**0.018**	**0.018**	**0.0001**	**0.020**
	Pulses	**18**	**0.0030**	**0.0050**	**16.7**	**5.6**	**0.010**	**0.010**	**0.0006**	**0.004**
	Bread and dried bread products	**14**	**0.0030**	**0.0090**	**100.0**	**92.9**	**0.015**	**0.085**	**0.0429**	**0.044**
	Pasta	**4**	**0.0030**	**0.0100**	**100.0**	**50.0**	**0.011**	**0.024**	**0.0135**	**0.024**
	Pastries and cakes	**18**	**0.0030**	**0.0100**	**61.1**	**22.2**	**0.020**	**0.029**	**0.0079**	**0.016**
	Pizzas, quiches and savoury pastries	**4**	**0.0033**	**0.0050**	**25.0**	**25.0**	**0.020**	**0.020**	**0.0050**	**0.008**
	Mixed dishes	**79**	**0.0010**	**0.0050**	**24.1**	**22.8**	**0.005**	**0.041**	**0.0054**	**0.009**
	Rice and wheat products	**6**	**0.0030**	**0.0050**	**83.3**	**50.0**	**0.015**	**0.030**	**0.0138**	**0.018**
	Sandwiches and snacks	**30**	**0.0010**	**0.0050**	**36.7**	**36.7**	**0.020**	**0.066**	**0.0115**	**0.015**
	Soups and broths	**22**	**0.0050**	**0.0050**	**4.5**	**0.0**			**0.0006**	**0.006**
	Ultra-fresh dairy products	**75**	**0.0020**	**0.0033**	**1.3**	**1.3**	**0.010**	**0.010**	**0.0001**	**0.003**
	Croissant-like pastries	**6**	**0.0030**	**0.0090**	**83.3**	**66.7**	**0.039**	**0.066**	**0.0362**	**0.040**

Active substance	Food group	Number of analyses conducted	Minimum LOD (mg/kg)	Maximum LOD (mg/kg)	Frequency of detection (%)	Frequency of quantification (%)	Minimum quantified value (mg/kg)	Maximum quantified value (mg/kg)	Mean contamination (LB) (mg/kg)	Mean contamination (UB) (mg/kg)
Procymidone	Fruits	75	0.0010	0.0030	5.3	5.3	0.030	0.070	0.0017	0.005
	Vegetables**	267	0.0020	0.0250	7.9	6.4	0.010	0.800	0.0045	0.010
	Pulses	18	0.0030	0.0250	5.6	5.6	0.070	0.070	0.0022	0.015
Propargite	Fruits	75	0.0030	0.0100	13.3	13.3	0.090	0.850	0.0275	0.037
Pyrimethanil	Alcoholic beverages	8	0.0050	0.0050	25.0	12.5	0.030	0.030	0.0044	0.009
	Soft drinks	26	0.0050	0.0050	3.8	0.0			0.0002	0.005
	Compotes and cooked fruit	8	0.0050	0.0050	25.0	0.0			0.0013	0.008
	Fruits	75	0.0020	0.0050	17.3	10.7	0.010	0.320	0.0031	0.008
	Vegetables**	267	0.0010	0.0500	12.7	6.0	0.010	0.180	0.0024	0.008
	Pastries and cakes	18	0.0050	0.0070	5.6	0.0			0.0004	0.006
	Soups and broths	22	0.0050	0.0050	4.5	0.0			0.0001	0.005
Pirimicarb	Compotes and cooked fruit	8	0.0050	0.0050	50.0	0.0			0.0025	0.010
	Fruits	75	0.0030	0.0070	4.0	0.0			0.0001	0.005
	Vegetables**	263	0.0020	0.0100	0.4	0.0			0.0000	0.009
Pyriproxyfen	Vegetables**	263	0.0010	0.0100	1.1	0.8	0.010	0.018	0.0001	0.006
Quinoxyfen	Fruits	75	0.0030	0.0100	5.3	2.7	0.020	0.030	0.0004	0.010
Spiroxamine	Fruits	75	0.0010	0.0100	6.7	0.0			0.0000	0.010
Sulfur	Vegetables**	211	0.1000	0.1000	11.8	0.5	8.730	8.730	0.0487	0.246
Tebuconazole	Fruits	75	0.0050	0.0100	4.0	2.7	0.010	0.010	0.0009	0.010
	Vegetables**	267	0.0020	0.1000	0.7	0.0			0.0000	0.008
Tebufenozide	Fruits	75	0.0030	0.0100	1.3	0.0			0.0000	0.010
Tebufenpyrad	Fruits	75	0.0020	0.0100	1.3	0.0			0.0000	0.010
Teflubenzuron	Fruits	75	0.0020	0.0100	8.0	1.3	0.050	0.050	0.0004	0.010
Tetraconazole	Fruits	75	0.0050	0.0100	1.3	0.0			0.0000	0.010
Tetradifon	Vegetables**	267	0.0020	0.0200	1.1	0.7	0.020	0.020	0.0002	0.018
Thiabendazole	Soft drinks	15	0.0001	0.0050	6.7	0.0			0.0002	0.001
	Compotes and cooked fruit	8	0.0050	0.0050	37.5	37.5	0.096	0.120	0.0408	0.044
	Fruits	75	0.0040	0.0100	33.3	29.3	0.017	0.960	0.0403	0.044
	Vegetables**	267	0.0050	0.0200	0.4	0.0			0.0000	0.005
	Pastries and cakes	18	0.0050	0.0050	5.6	5.6	0.072	0.072	0.0040	0.009
Triadimenol*	Fruits	75	0.0050	0.0100	4.0	2.7	0.040	0.060	0.0006	0.020
	Vegetables**	267	0.0020	0.0100	0.7	0.7	0.020	0.020	0.0003	0.047
Trifloxystrobin	Fruits	75	0.0030	0.0050	2.7	0.0			0.0000	0.005
Triflumuron	Fruits	75	0.0020	0.0100	8.0	2.7	0.020	0.044	0.0005	0.010
Vinclozolin*	**Vegetables****	**267**	**0.0050**	**0.0200**	**1.5**	**0.7**	**0.020**	**0.210**	**0.0008**	**0.035**

* See Table G2: Grouping of substances and isomers, metabolites and/or degradation products according to the definition of the residue.
** Excluding potatoes.

3.2. Substance data sheets

In order to limit the number of data sheets, these deal only with the 50 priority substances (out of 62) that were likely to be most frequently found in foods during the TDS 2 sampling period (June 2007 to January 2009), i.e.

- priority substances likely to have been used in Europe during the sampling period, i.e. substances included in Annex 1, and those that were the subject of a non-inclusion decision in or after 2005 (considering a two-year period of use following non-inclusion in Annex 1);
- priority substances that were the subject of a non-inclusion decision before 2005 but were detected in unprocessed foodstuffs in the 2005 and 2007 French surveillance plans;
- POPs in light of their bioaccumulation and bioamplification potential in the food chain.

On the data sheets, only toxicological effects by ingestion are mentioned. A full toxicological classification is given in Table G5 and Annex 1.

The number following the name of the active substance is the CAS (Chemical Abstract Services) number, a unique international registry number given to every chemical substance.

The values given in parentheses after the intake and exposure levels correspond to the minimum and maximum mean and 95th percentile values observed in the various regions. Given the censoring rate (>60%), two hypotheses were considered: the lowerbound (LB) and upperbound (UB). In this case, the values shown in parentheses correspond to the minimum regional LB and maximum regional UB values.

Tables G3 and G4 summarise the analysis results respectively by active substance and by substance-food group combination. Table G2 presents, for each active substance, the results for estimated chronic exposure and dietary risk.

3.2.1. Active plant protection substances within the scope of application of Directive 91/414/EEC

3.2.1.1. Carbamates

Carbamates are esters of carbamic acid. From a chemical point of view, there are three groups: carbocyclic (carbaryl), heterocyclic (pirimicarb) and aliphatic (aldicarb) substances. Oxime-carbamates (aldicarb, methomyl, etc.) and phenylmethyl carbamates (propoxur, etc.) account for three quarters of the carbamates that are referenced around the world (Regnault-Roger and Philogène 2005).

Carbamates are mainly used as insecticides to treat buildings and in vector control, but are also used as nematicides, fungicides and herbicides (Regnault-Roger and Philogène 2005; Reichl 2004). Their use has expanded particularly as organochlorines have been banned. Carbamates are mainly non-selective and can combine various modes of action (contact, fumigant and/or systemic). As with organophosphate compounds, the insecticides in the carbamate family act on the nervous system of pests by reversibly inhibiting acetylcholinesterase. Active herbicide substances act by inhibiting certain proteins that contribute to photosynthesis or by blocking cellular division (Regnault-Roger, Fabres *et al.* 2005).

Carbaryl

Carbaryl (63-25-2) was the first carbamate to be widely marketed around the world since its introduction in 1957. It is characterised by superior efficacy, a broad spectrum of activity and relatively low toxicity to mammals (Regnault-Roger and Philogène 2005). A per os contact insecticide for use in agriculture, as a growth regulator for fruit, and for veterinary use (Tomlin 2006), it was considered a priority by the ORP in 2006 given a theoretical maximum daily intake (TMDI) in children and adults above 80% of the ADI (Ménard, Héraud *et al.* 2008a). At the European level, this substance was not included in Annex 1 of Council Directive 91/414/EEC (Decision 2007/355). In France, the expiry date for use of proprietary plant protection products containing this active substance was set for 20 November 2008 (MAP 2008b).

Hazard characterisation

Toxicokinetic studies conducted in animals show that carbaryl is widely distributed throughout the body, especially in the kidneys, but does not accumulate there. It is rapidly eliminated after being metabolised, primarily through urine (91% in 24h) (EFSA 2006h). According to Regulation (EC) 1272/2008, carbaryl is not classified as a mutagenic or reprotoxic substance. However, it is classified as a category 3 carcinogen according to this regulation (R40: 'limited evidence of a carcinogenic effect') and by the IARC (group 3: 'not classifiable as to its carcinogenicity to humans') (IARC 2009). An ADI of 0.0075 mg/kg bw/d was established from a two-year study conducted in mice, according to a lowest observed adverse effect level (LOAEL) of 15 mg/kg bw/d, the dose at which vascular tumours are observed in males (EFSA 2006h; JMPR 2001a). An ARfD of 0.01 mg/kg bw/d was established from anticholinesterase effects observed in rats during a 13-week neurotoxicity study (no observed adverse effect level (NOAEL) of 1 mg/kg bw/d) (EFSA 2006h).

Risk assessment and characterisation

No analysed sample (n=1176) presented any quantified value. It was detected in only one sample (non-fat yogurt) (Tables G3 and G4). The estimated mean concentrations for ultra-fresh dairy products were between 3.10-5 (LB) and 0.002 mg/kg (UB). Under the upperbound (UB) assumption, the highest estimated mean concentrations were those in vegetables excluding potatoes (UB=0.02 mg/kg) (Table G6).

The estimated mean exposure of the adult population was between 2.10-5 µg/kg bw/day (0-3.10-5) (LB) and 0.13 µg/kg bw/day (0.12-0.14) (UB). The estimated mean exposure of children was between 3.10-5 µg/kg bw/day (0-3.10-5) (LB) and 0.15 µg/kg bw/day (0.14-0.16) (UB). At the 95th percentile, estimated exposure (UB) was 0.23 µg/kg bw/day in adults (0.21-0.25) and 0.30 µg/kg bw/day in children (0.26-0.37). Under the lowerbound (LB) assumption, ultra-fresh dairy products were the only contributors to carbaryl exposure in adults and children (Tables G7 and G8). Irrespective of the assumption considered, the ADI was not exceeded in adults or children. Under the upperbound (UB) assumption, the 95th percentile of exposure was equal to 3% of the ADI in adults and 4% of the ADI in children. Therefore, the risk associated with carbaryl exposure is not a public health issue.

Carbendazim

Carbendazim or methyl-1H-benzimidazole-2-carbamate (10605-21-7) belongs to the chemical class of benzimidazoles, along with benomyl and thiabendazole. The residue is defined as the sum of benomyl and carbendazim, expressed as carbendazim (Regulation (EC) no. 396/2005). Carbendazim has been used worldwide since 1974 as a biocide and fungicide on fruit and vegetable crops, cash crops and vine fruit (INRS 2009; Tomlin 2006). The ORP considered the substance to be a priority in 2004 (AFSSA, AFSSE *et al.* 2004). At the EU level, it was included in Annex 1 of Council Directive 91/414/EEC until 31 December 2010 (Directive 2009/152). However, in France carbendazim was withdrawn under the Ecophyto 2018 National Action Plan. The expiry date of related plant protection products was set for 30 June 2008 (MAP 2007e). Carbendazim is also a metabolite of thiophanate-methyl, an active substance authorised at the national level that is included in the residue definition for the risk assessment (Table G5).

Hazard characterisation

Toxicokinetic studies conducted in animals show that carbendazim is rapidly metabolised and eliminated primarily through urine (INRS 2009). According to Regulation (EC) 1272/2008, carbendazim is not classified as a carcinogen. However, the substance is classified as a category 2 mutagen (R46) and category 2 reprotoxic substance (R60/61). Its genotoxic action occurs in vitro and in vivo on body and germ cells above a certain threshold (European Commission 2007a; INRS 2009). The target organ for medium and long-term effects is the liver, with histopathological alterations (INRS 2009; Scientific Committee on Plants 2001). Carbendazim administered orally to rats and rabbits showed effects on male fertility as well as teratogenic effects at maternotoxic doses (INRS 2009). An ADI and ARfD of 0.02 mg/kg bw/d were established from a no-effect dose for embryo-foetal toxicity of 10 mg/kg bw/d (European Commission 2007a).

Risk assessment and characterisation

No residues were detected for 98.7% of the samples analysed (n=1143) and 99.3% presented no quantified value. Only eight samples had quantified values (apples, pears, grapes, strawberries and tap water) (Tables G3 and G4). The estimated mean concentrations were between 0.002 mg/kg (LB) and 0.01 mg/kg (UB) in fruit and between 0.19 µg/L (LB) and 0.23 µg/L (UB) in water intended for human consumption. However, under the upperbound assumption, the highest estimated mean concentrations concerned processed foods, although no value had been quantified in these matrices (Table G6).

The estimated mean exposure in the adult population was between 0.02 µg/kg bw/d (0-0.06) (LB) and 0.13 µg/kg bw/d (0.1-0.18) (UB). The estimated mean exposure in children was 0.02 µg/kg bw/d (0-0.07) (LB) and 0.19 µg/kg bw/d (0.16-0.25) (UB). At the 95th percentile, the estimated exposure was between 0.11 and 0.24 µg/kg bw/d in adults (0-0.37) and between 0.09 and 0.37 µg/kg bw/d in children (0-0.47). In adults and children, fruits were the main contributors to exposure (respectively 71% and 58% under the lowerbound (LB) assumption and 23% and 14% under the upperbound (UB) assumption) (Tables G7 and G8). Irrespective of the assumption considered, the ADI was not exceeded in adults or children. Under the upperbound assumption, the 95th percentile of exposure was equal to 1.2% of the ADI in adults and 1.9% of the ADI in children. Therefore, the risk associated with carbendazim exposure is not a public health issue.

Carbetamide

Carbetamide (16118-49-3) is a selective herbicide absorbed primarily by plant roots and leaves. It has been used for over 40 years, especially on legumes, brassicas, sugar beets, rapeseed, sunflower and vine fruits (Tomlin 2006). Carbetamide was not included in Annex 1 of Council Directive 91/414/EEC (Decision 2008/934). In France, the expiry date for use of proprietary carbetamide-based plant protection products was set for 31 December 2011 (MAP 2009c).

Hazard characterisation

Toxicokinetic studies conducted in animals show that carbetamide is metabolised rapidly and eliminated primarily through urine (81% in 24h). The substance is poorly distributed and does not accumulate in the body (European Commission: France 2010). Carbetamide is not classified as a mutagen according to Regulation (EC) 1272/2008. The Member State rapporteur (France) proposed classifying it as a category 3 carcinogen (R40) and category 3 reprotoxic substance (R63). The proposed ADI was 0.03 mg/kg bw/d, from a study in dogs (NOAEL of 3 mg/kg bw/d based on neuromuscular clinical symptoms) (European Commission: France 2010). An ARfD of 0.05 mg/kg bw/d was established from teratogenic effects observed in rabbits (NOAEL of 5 mg/kg bw/d) (European Commission: France 2010).

Risk assessment and characterisation

No residues were detected among 63 foods analysed (n=494 samples) (Table G3). This substance was not screened for in unprocessed plant foodstuffs, but only in animal foodstuffs and in some processed foods (pizzas, quiches, etc.) for analytical reasons (Table G6). Under the upperbound (UB) assumption, mean concentrations were 0.002 mg/kg for all food groups (except water). For information purposes, In the framework of the Member States' 2008 surveillance programmes, the substance was detected in only one sample of fruit and vegetables out of 7332 samples analysed (EFSA, 2010).

The coverage rate of the theoretically contributing diet by estimation is 55% in adults and 50% in children (Table G2). Under the upperbound (UB) assumption, the estimated mean exposure of the adult population was 0.009 µg/kg bw/d (0.009-0.010) and that of children was 0.023 µg/kg bw/d (0.021-0.025). At the 95th percentile (UB), estimated exposure was 0.018 µg/kg bw/d in adults (0.016-0.021) and at 0.052 µg/kg bw/d in children (0.046-0.066) (Tables G7 and G8). No exceeding of the ADI was observed in adults or children. Under the upperbound assumption, the 95th percentile of exposure was below 0.2% of ADI in adults and children. Therefore, the risk associated with carbetamide exposure is not a public health issue.

Carbofuran

Carbofuran (1563-66-2) has been used for its insecticide, nematicide and acaricide properties on many agricultural crops around the world since the 1960s (Suett, Fournier *et al.* 1996; UNU-IWEH 2009). This pesticide was considered a priority in 2006 by the ORP given a TMDI (for children and adults) above 80% of the ADI. At the European level, this substance was not included in Annex 1 of Council Directive 91/414/EEC following its reassessment (Directive 2007/416). In France, the expiry date for use of plant protection formulations containing this active substance was set for 13 December 2008, and therefore during the sampling period of the TDS (MAP 2007b). It should also be noted that benfuracarb, the active substance degrading to carbofuran and hydroxycarbofuran, was authorised for use in vegetable crops during the TDS sampling period.

Hazard characterisation

Toxicokinetic studies conducted in animals show that carbofuran is rapidly metabolised and eliminated primarily through urine. The substance does not accumulate in the body (EFSA 2009a). According to Regulation (EC) 1272/2008 carbofuran is not classified as a carcinogenic, mutagenic or reprotoxic substance. The substance is classified as highly toxic if ingested (T+, R28). Short- and long-term oral exposure causes an inhibition of cholinesterase activity, inducing neurotoxicity. An ADI and ARfD of 0.00015 mg/kg bw/d were established from an LOAEL of 0.03 mg/kg bw/d after a neurotoxicity study conducted in rats (EFSA 2009a).

Risk assessment and characterisation

For 99.9% of the samples analysed (n=1127), no residue was detected. A single sample (radish) had a concentration of 0.22 mg/kg with the MRL being exceeded (0.02 mg/kg) (Tables G3 and G4). The highest estimated mean concentrations were between 0.001 mg/kg (LB) and 0.017 mg/kg (UB) in vegetables (excluding potatoes) (Table G6). In the framework of the Member States' 2008 surveillance programmes, the substance was detected in 78 samples of fruit and vegetables (n=36,955), with non-conformities identified mainly in bell peppers, chilli peppers, coriander and beans from Thailand and the Dominican Republic, primarily (EFSA 2010a). In France, the substance was detected in tap water (0.07% of analyses), mandarins and lemons (respectively 3.3% and 5% of analyses) and in a lettuce sample.

Under the upperbound (UB) assumption, estimated average exposure of the adult population was 0.13 µg/kg bw/d (0.13-0.15) and that of children was 0.15 µg/kg bw/d (0.15-0.16). At the 95th percentile (UB), estimated adult exposure was 0.23 µg/kg bw/d (0.21-0.26) and that of children was 0.3 µg/kg bw/d (0.26-0.36). In adults and children, vegetables excluding potatoes were the only contributors to exposure under the lowerbound (LB) assumption and the main contributors under the upperbound (UB) assumption (respectively 19% and 20%) (Tables G7 and G8). The ADI was exceeded in 30% of adults [28; 32] and in 45% of children [42; 47] under the upperbound assumption but in no cases under the lowerbound assumption. The relatively low ADI value of carbofuran and relatively high analytical limits for vegetables and beverages account for the ADI being exceeded under the upperbound assumption.

Therefore, given the analytical uncertainties and detection within the framework of regulatory monitoring plans, risk cannot be ruled out with certainty. It is advisable to conduct further analyses using more sensitive analytical methods (LODs lower by a factor of at least 10) primarily in theoretical main contributors under the upperbound assumption (vegetables and beverages), in order to refine the exposure estimate.

Methomyl/Thiodicarb

Methomyl (16752-77-5), a mildly systemic contact fumigant insecticide, has been used since 1968 on a wide variety of crops as well as for controlling flies in livestock and livestock buildings (Regnault-Roger and Philogène 2005; Tomlin 2006). Another source of methomyl, thiodicarb (59669-26-0) is an insecticidal seed dressing and molluscicide, consisting of two molecules of methomyl. Methomyl and thiodicarb have a comparable toxicological profile. Thiodicarb is rapidly metabolised to methomyl in treated plants and also in humans, once it is absorbed (in the liver). The residue is defined as the sum of methomyl and thiodicarb, expressed as methomyl (EFSA 2008a; European Commission 2007a; JMPR 2000b). Methomyl was considered a priority in 2006 by the ORP given a TMDI above 80% of the ADI in children (Ménard, Héraud *et al.* 2008a). It was included in Annex 1 of Council Directive 91/414/EEC (Directive 2009/115). However, in France it is no longer authorised for plant protection uses as of 31 December 2008 (banned under the Ecophyto 2018 action plan). To date, only the disinsectisation of domestic animal housing and transportation equipment is authorised in France (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals and humans show that methomyl is widely distributed and metabolised, then eliminated primarily through urine (80% in rats in 24h), without accumulating in the body (EFSA 2008a). According to Regulation (EC) 1272/2008, methomyl is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is classified as highly toxic if ingested (T+, R28). An ADI and ARfD of 0.0025 mg/kg bw/d were established from an NOAEL of 0.25 mg/kg bw/d determined on the basis of a neurotoxicity study in rats showing a reversible inhibition of brain and plasma cholinesterase activity (EFSA 2008a). An oral study, conducted in volunteers, showed a decrease in cholinesterase activity associated with increased salivation and headaches from 0.2 mg/kg bw/d (EFSA 2008a).

Risk assessment and characterisation

No residues were detected in 99.8% of the samples analysed (n=827). Two samples (fresh pear and white grapes) contained unquantified residues (Tables G3 and G4). Under the upperbound (UB) assumption, the highest estimated mean concentrations concerned fruit (UB=0.008 mg/kg) (Table G6).

The estimated mean exposure of the adult population was between 8.10-5 µg/kg bw/d (0-5.10-4) (LB) and 0.05 µg/kg bw/d (0.05-0.06) (UB). The estimated mean exposure of children was between 7.10-5 µg/kg bw/d (0-5.10-4) (LB) and 0.09 µg/kg bw/d (0.08-0.09) (UB). At the 95th percentile, estimated exposure was between 0 (LB) and 0.1 µg/kg bw/d (0.08-0.13) (UB) in adults and between 0 and 0.18 µg/kg bw/d (0.15-0.2) in children. In adults as well as in children, fruits are the only contributors to exposure under the lowerbound (LB) assumption and the main contributors under the upperbound (UB) assumption (respectively 28% and 18%) (Tables G7 and G8). Irrespective of the assumption considered, the ADI was not exceeded in adults or children. Under the upperbound assumption, the 95th percentile of exposure remains below 10% of the ADI in adults and children. Therefore, the risk associated with methomyl exposure is not a public health issue.

Triallate

Triallate (2303-17-5) is a thiocarbamate herbicide placed on the market in 1970 for the maintenance of cash crops (grains, legumes, oil seeds, maize, etc) and vegetable crops. Triallate was selected as a priority in 2006 by the ORP due to a TMDI above the ADI in children (Ménard, Héraud *et al.* 2008a). Following its reassessment in the EU under Council Directive 91/414/EEC, the substance was included in the 1 January 2010 Annex 1 and therefore authorised in Europe until 2020 (Directive 2009/77). In France, six commercial products are available for 19 authorised uses on beets, grains, oil seeds, alfalfa, peas and clover (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals show that triallate is rapidly absorbed, metabolised and eliminated through urine without accumulating in the body (EFSA 2008c). According to Regulation (EC) 1272/2008, triallate is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, it is classified as capable of "causing serious effects for health in case of prolonged exposure by ingestion" (Xn, R48/22). An ADI of 0.025 mg/kg bw/d was established from a two-year oral study in rats (NOAEL of 2.5 mg/kg bw/d established on the basis of increased mortality and the incidence of chronic nephropathies) (EFSA 2008c). An ARfD of 0.6 mg/kg bw/d was established from reduced motor activity observed in rats in studies of acute neurotoxicity (NOAEL of 60 mg/kg bw/d) (EFSA 2008c).

Risk assessment and characterisation

No residues were detected among 64 foods analysed (n=510 samples) (Table G3). The substance could not be screened for in plant foodstuffs but only in foodstuffs of animal origin and certain mixed foods (pizzas, quiches, cakes and pastries, etc.) for analysis reasons (Table G6). Under the upperbound (UB) assumption, estimated mean concentrations were from 0.001 mg/kg (mixed dishes) to 0.002 mg/kg (eggs, seasonings and sauces). For information purposes, in the framework of the EU Member States' 2008 surveillance programmes, this substance was only detected in one fruit and vegetable sample out of 12,491 samples analysed (EFSA, 2010). In France, the substance is not routinely screened for as part of surveillance programmes.

The coverage rate of the theoretically contributing diet by estimation was 33% in adults and 45% in children (Table G2). Under the upperbound (UB) assumption, the estimated mean exposure of the adult population was 0.006 µg/kg bw/d (0.006-0.007) and that of children was 0.015 µg/kg bw/d (0.014-0.016). At the 95th percentile (UB), estimated exposure was 0.01 µg/kg bw/d in adults (0.01-0.013) and 0.03 µg/kg bw/d in children (0.03-0.04) (Tables G7 and G8). Irrespective of the assumption considered, the ADI was not exceeded in children or adults. The 95th percentile of exposure was below 0.2% of the ADI in adults and children.

The risk associated with triallate exposure is not a public health issue. However, given the low level of coverage of the theoretical diet and the inclusion of triallate in Annex 1, it might be advisable to screen for this substance as part of the national programmes for monitoring plant foodstuffs (including grains and protein and oil-seed crops).

3.2.1.2. Bipyridinium derivatives

Paraquat and diquat are quaternary ammonium compounds derived from bipyridinium. These broad-spectrum non-selective herbicides are absorbed by leaves and migrate to the xylem of adventive plants in order to destroy them. The phytotoxic effect of quaternary ammonium compounds is due to an inhibition of photosynthesis (Reichl 2004). Only diquat was considered to be a priority in 2006 by the ORP due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a).

Diquat

Diquat (85-00-7) was first marketed in 1962 (Tomlin 2006). It is used before planting or at harvest on numerous cultivated species (Tomlin 2006). The substance is highly adsorbed by the soil and its bioaccumulation potential is extremely high (European Commission 2001). In the European Community, diquat was included in Annex 1 of Directive 91/414/EEC (Directive 2001/21). In France, 29 plant protection uses are authorised on 20 annual and perennial crops (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that diquat is poorly absorbed when administered orally (<10% in rats) and is primarily eliminated in the urine and bile. Highly water-soluble and not very fat-soluble, it does not accumulate in the body (European Commission 2001; Marrs and Ballantyne 2004b). According to Regulation 1272/2008/EC, diquat is not classified as a carcinogenic, mutagenic or reprotoxic substance. The substance "can cause serious damage to health by prolonged exposure if swallowed (Xn, R48/22)". Chronic ingestion of diquat has caused cataracts to form in rats and dogs. Diquat's ADI of 0.002 mg/kg bw/day was determined based on these effects observed in a two-year study in rats (NOAEL of 0.2 mg/kg bw/day) (European Commission 2001; JMPR 1993b). The establishment of an ARfD was not deemed necessary by the assessment authorities. In humans, cases of accidental oral exposure to high concentrations have shown neurological signs (stage 1 coma), digestive signs, hepatic cytolysis, thrombocytopenia and kidney failure (Saviuc 1998).

Risk assessment and characterisation

Diquat was not tested in plant products due to the lack of a validated analytical method for the matrices under study. For foodstuffs of animal origin, it was tested only in milk, the ultra-fresh dairy group, dairy-based desserts and certain cakes, pastries and quiches, in light of milk's theoretical contribution levels. No residues were detected in the 131 dairy product samples that were analysed (Table G9). For information, in the framework of the Member States' 2008 surveillance programmes, the substance was detected in 15 fruit and vegetable samples out of 1592 that were analysed (EFSA 2010a). In France, diquat is not routinely tested in the framework of surveillance programmes.

The coverage rate of the theoretically contributing diet from the estimation was 73% in adults and 74% in children (Table G2). This coverage level was due firstly to the fact that the substance was tested only in foodstuffs of animal origin, for analytical reasons, and secondly to the exclusion of the analysis results for cheese and butter (in which recovery rates were too low).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.009 µg/kg bw/day (0.008-0.01) and that of children was estimated at 0.030 µg/kg bw/day (0.029-0.031). At the 95th percentile (UB), exposure was estimated at 0.025 µg/kg bw/day in adults (0.022-0.028) and at 0.081 µg/kg bw/day in children (0.068-0.101) (Tables G10 and G11). The ADI was not exceeded by any adults or children. The 95th exposure percentile did not exceed 4% of the ADI (in children). Consequently, in light of an average coverage level for the theoretical diet and the inclusion of diquat in Annex 1, it could be recommended to include testing for this substance in national surveillance programmes for plant-based foodstuffs. The risk associated with diquat exposure is not a public health issue.

3.2.1.3. Dicarboximides

Dicarboximides (captan, chlozolinate, folpet, iprodione, procymidone and vinclozolin) were introduced in the late 1970s as an alternative to the use of benzimidazoles to which Botrytis cinerea (grey mould) had developed high resistance. In light of their efficacy against other fungal diseases, their low phytotoxicity and their rapid action before harvesting, they are also used on fruit and vegetable crops. But in a period of a few years, intense use of dicarboximides in European vineyards in turn led to significant cross-resistance. Regarding their mode of action, dicarboximides are said to affect the osmoregulation of fungi by altering hyphal morphology and the cytoplasmic accumulation of polyols (Leroux P 2005; Martin, Beresford *et al.* 2005).

Three active substances from this chemical family (folpet, iprodione and vinclozolin) have been identified as priorities by the ORP (AFSSA, AFSSE *et al.* 2004).

Folpet

Folpet (133-07-3) is a multi-site contact fungicide used mainly in vineyards against mildew, red fire disease and dead-arm disease, and can have secondary action on powdery mildew and botrytis (BASF 2008). The substance does not accumulate in the environment and its primary metabolites are phthalimide, phthalic acid, and phthalamic acid (Tomlin 2006). Folpet was included in Annex 1 of Directive 91/414/EC (Directive 2007/5). In France, there are 87 proprietary plant protection products associated with 13 authorised uses on wheat and barley, apple and pear trees and vegetable crops (lettuce, tomato, potato) and in vineyards (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that folpet is widely distributed in the body. Due to its rapid excretion, mainly in the urine, its accumulation in tissues is very low (FAO/WHO 2004). According to Regulation 1272/2008/EC, folpet is not classified as mutagenic or reprotoxic. However, the substance is classified as a category 3 carcinogen (R40) (EFSA 2009b). An ADI of 0.1 mg/kg bw/day was established based on a one-year study undertaken in dogs (NOAEL of 10 mg/kg bw/day based on modified biochemical parameters) (EFSA 2009b). An ARfD of 0.2 mg/kg bw/day was set based on an NOAEL of 20 mg/kg bw/day obtained in a developmental toxicity study undertaken in rabbits, based on the occurrence of hydrocephalus at the highest tested doses (EFSA 2009b; European Commission: Italy 2004; FAO/WHO 2004).

Risk assessment and characterisation

No residues were detected for 99.9% of the analysed samples (n=1235). Only one sample (pears) had a quantified folpet value (0.11 mg/kg) (Tables G3 and G4). The estimated mean levels in fruits varied from 0.5 µg/kg (LB) to 4 µg/kg (UB). For the upperbound (UB), the highest estimated mean levels were found in potatoes and potato-based products (0.09 mg/kg) (Table G12).

Mean exposure in the adult population was estimated to be between 0.001 µg/kg bw/day (0-0.007) (LB) and 0.29 µg/kg bw/day (0.27-0.31) (UB). Mean exposure in the child population was estimated to be between 0.002 µg/kg bw/day (0-0.01) (LB) and 0.41 µg/kg bw/day (0.38-0.45) (UB). At the 95th percentile, exposure was estimated to be between 0 and 0.51 µg/kg bw/day in adults (0-0.65) and between 0 and 0.86 µg/kg bw/day in children (0-0.99). In both adults and children, fruits were the only contributors for the lowerbound (LB) (Tables G13 and G14). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. The 95th exposure percentile was lower than 1% of the ADI in children and adults. The risk associated with folpet exposure is therefore not a public health issue.

Iprodione

Iprodione (36734-19-7) belongs to the group of hydantoins. First referenced in 1974, this preventive contact fungicide is effective against numerous phytopathogenic fungi. It is rapidly metabolised in soil with the formation of carbon dioxide (BASF 2008; Tomlin 2006). Iprodione was included in Annex 1 of Directive 91/414/EC (Directive 2003/31/EC). In France, there are 13 proprietary plant protection products associated with 110 authorised uses on fruit and vegetable crops and in vineyards (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that iprodione is widely distributed and metabolised in the body, then mainly excreted in the urine (98% in 96 hrs.) (European Commission 2002b). According to Regulation 1272/2008/EC, iprodione is not classified as mutagenic or reprotoxic. However, the substance is classified as a category 3 carcinogen (R40). The European Union considers iprodione to be a 'category 2 endocrine disruptor' (there is at least some in vitro evidence of biological activity related to endocrine disruption) (DHI 2007). An ATI of 0.06 mg/kg bw/day was established by the JMPR based on a two-year study undertaken in rats (NOAEL of 6 mg/kg bw/day on the basis of histopathological modifications to the liver, kidneys, adrenal glands and testicles) (European Commission 2002b; JMPR 1995b). No ARfD was set in the framework of its assessment for inclusion in Annex 1 of Directive 91/414/EC (European Commission 2002b).

Risk assessment and characterisation

For 96.1% of the analysed samples (n=1235), no residues were detected. Forty-six samples (fresh or cooked fruits and vegetables, wine, hamburgers) had quantified values ranging from 0.01 mg/kg (peach) to 3.5 mg/kg (miscellaneous salads) (Tables G3 and G4). The highest estimated mean levels were found in fruits and vegetables. These levels ranged from 0.04 mg/kg (LB) to 0.05 mg/kg (UB) for vegetables excluding potatoes, from 0.027 mg/kg (LB) to 0.030 mg/kg (UB) for fruits, from 0.002 (LB) to 0.01 (UB) for alcoholic beverages and from 0.007 (LB) to 0.016 (UB) for sandwiches (Table G12).

Mean exposure in the adult population was estimated to be between 0.21 µg/kg bw/day (0.05-0.41) (LB) and 0.44 µg/kg bw/day (0.29-0.65) (UB). Mean exposure in the child population was estimated to be between 0.16 µg/kg bw/day (0.04-0.32) (LB) and 0.46 µg/kg bw/day (0.35-0.64) (UB). At the 95th percentile, exposure was estimated to be between 0.76 and 1.05 µg/kg bw/day in adults (0.15-1.46) and between 0.65 and 1.08 µg/kg bw/day in children (0.16-1.48). In both adults and children, vegetables excluding potatoes were the main contributors to exposure (respectively 79% and 83% for the lowerbound and 39% and 31% for the upperbound) (Tables G13 and G14). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. For the upperbound, the 95th exposure percentile was lower than 2% of the ADI in children and adults. The risk associated with iprodione exposure is therefore not a public health issue.

Vinclozolin

First used in 1976, this contact fungicide is effective against numerous phytopathogenic fungi. Added to the soil, the substance is rapidly metabolised (a half-life of a few weeks) with the formation of residues and 3,5-dichloroaniline (Tomlin 2006). The residue is defined as the sum of vinclozolin and all metabolites containing 3,5 dichloroaniline, expressed as vinclozolin (Regulation (EC) n°396/2005). The substance was identified as a priority in 2006 by the ORP due to a TMDI greater than the ADI in children and adults (Ménard, Héraud *et al.* 2008a). Further to its European Community assessment, vinclozolin was not included in Annex 1 of Directive 91/414/EC (Regulation 1335/2005/EC). In France, the last date on which proprietary plant protection products made with vinclozolin could be used was 31 December 2007 (MAP 2007c).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that vinclozolin is widely distributed in the body. After metabolisation, it is eliminated rapidly both in the urine and faeces (80% eliminated in 48 hrs) (JMPR 1995c). According to Regulation 1272/2008/EC, vinclozolin is not classified as mutagenic. However, the substance is classified as category 3 carcinogenic (R40) and category 2 reprotoxic (R60/61) (Regulation 1272/2008/EC). Europe classified vinclozolin as a category 1 endocrine disruptor (evidence of endocrine disrupting activity in at least one living species) on account of its anti-androgen activity (DHI 2007; JMPR 1995c). An ADI of 0.005 mg/kg bw/day was established based on a two-year study in rats (NOAEL of 1.2 mg/kg bw/day, based on increased cataract incidence and histological modifications to the liver and adrenal glands). An ARfD of 0.06 mg/kg bw/day was calculated based on a foetal NOAEL of 6 mg/kg bw/day in rats, based on anti-androgen effects (European Commission 2006a; European Commission: France 1998).

Risk assessment and characterisation

For 99.8% of the analysed samples (n=1235), no residues were detected. Only 2 bean samples had quantified levels of vinclozolin (0.02 and 0.21 mg/kg) (Tables G3 and G4). The metabolite 3,5-dichloroaniline was tested only in foodstuffs of animal origin and vegetables. The highest estimated mean levels were found in vegetables (excluding potatoes). These ranged from 0.8 µg/kg (LB) to 35 µg/kg (UB) (Table G12).

Mean exposure in the adult population was estimated to be between 0.005 µg/kg bw/day (0-0.032) (LB) and 0.25 µg/kg bw/day (0.24-0.28) (UB). Mean exposure in the child population was estimated to be between 0.006 µg/kg bw/day (0-0.032) (LB) and 0.41 µg/kg bw/day (0.38-0.44) (UB). At the 95th percentile, exposure was estimated to be between 0.025 and 0.41 µg/kg bw/day in adults (0-0.46) and between 0.036 and 0.84 µg/kg bw/day in children (0-0.91). In both adults and children, vegetables excluding potatoes were the main contributors (100% for the lowerbound and respectively 23% and 17% for the upperbound) (Tables G13 and G14). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. For the upperbound, the 95th exposure percentile was equal to 8% of the ADI in adults and 17% of the ADI in children. The risk associated with vinclozolin exposure is therefore not a public health issue.

3.2.1.4. Dithiocarbamates

Dithiocarbamates (DTCs) are esters and salts of dithiocarbamic acid. They are the sulfur analogues of carbamates (Marrs and Ballantyne 2004b). Some are used to make rubber (zinc dialkyldithiocarbamates) and paper, and in human medicine to treat skin conditions and alcoholism (disulfiram) (Reichl 2004). In crop protection, there are two groups of active substances that were marketed from 1940 to 1965 as non-systemic contact fungicides: dialkyl- derivatives of dithiocarbamic acid (metam-sodium, metiram-zinc, ferbam, thiram and ziram) and ethylenebisdithiocarbamates (EBDCs) (mancozeb, maneb, propineb and zineb) (Marrs and Ballantyne 2004a; Reichl 2004; Tomlin 2006). DTCs are not persistent in the environment and break down in the aquatic and terrestrial compartments in the space of a few hours or a few days (European Commission 2009; Tomlin 2006). Regarding their mode of action, they are fungicides that affect the respiratory processes of phytopathogenic fungi and are capable of inhibiting the germination of fungal spores. They are consequently characterised by strong preventive activity (Leroux P 2005; Tomlin 2006).

In the framework of this study, six DTCs were considered priorities: mancozeb, maneb, metiram, propineb, thiram and zineb (the only substance not included in Annex 1). DTCs are authorised for use in France on fruit and vegetable crops (mancozeb, maneb, thiram) and in vineyards (propineb). Propineb was included in Annex 1 of Directive 91/414/EEC in 2003 (Directive 2003/39), with two authorised plant protection uses in France: control of mildew in vineyards and potatoes (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that DTCs are rapidly absorbed after oral administration. They have numerous metabolites but the primary one is ethylene thiourea (ETU), which is probably at the origin of the compounds' toxicity. DTCs are rapidly eliminated, mainly in the urine. The substance does not accumulate in the body (IPCS 1988). As shown in Table G5, the toxicological classification varies depending on the substance (Regulation 790/2009/EC; Regulation 1272/2008/EC). Studies have shown that no DTCs are mutagenic. The IARC assessed thiram, ziram, maneb and mancozeb and concluded that these substances were "not classifiable as to their carcinogenicity to humans" (category 3) (IARC 1987; IARC 1991b). According to Regulation 1272/2008/EC, maneb and mancozeb are classified as reprotoxic category 3 (R63: possible risk of harm to the unborn child). ETU probably plays a role in this toxicity. Propineb's reference ADI of 0.007 mg/kg bw/day was based on a 62-day study in rats (NOAEL of 0.74 mg/kg bw/day, based on T4 concentration changes and increased thyroid weight) (European Commission 2003).

Risk assessment and characterisation

Considering the analytical method used (NF-EN-12396), the results are expressed in carbon disulfide (CS_2), representing the total level of dithiocarbamates with no distinction between active substances. Likewise, the maximum residue level (MRL) of dithiocarbamates defined in Regulation (EC) no. 396/2005 is expressed in CS_2.

No residues were detected in the TDS foods of plant and animal origin that were analysed (n=562 samples). That said, dithiocarbamates are among the most frequently detected active substances in unprocessed vegetables and particularly leafy vegetables.

The absence of detection in fruits and vegetables as consumed could be due to a 'dilution' of potential residual levels related to the TDS sample (composite) and the particularly high analytical limits for fruits and vegetables (LODs ranging from 0.025 to 0.2 mg/kg). However, the preparation practices for the composite samples described in Section 2 do not appear to be involved in any loss of dithiocarbamate residues. In fact, firstly, the sub-samples were ground in the presence of liquid nitrogen to avoid a loss of dithiocarbamates by enzymatic degradation before the analysis. Secondly, the samples were not thawed before the analysis. However, before cryogenic grinding, each sub-sample underwent single cutting and rapid mixing. Although this single cutting may contribute to increased dithiocarbamate loss at ambient temperature, it generally reflects the culinary practice of cutting foods before consumption, which is consistent with the very objective of the TDS.

For the upperbound, the highest estimated mean levels were found in fruits and compotes, beverages, cakes and pastries and wheat-based products (UB=0.2 mg/kg) (Table G15).

For the upperbound (UB), the adult population's mean exposure was estimated at 1.63 µg/kg bw/day (1.48-1.91) and that of children was estimated at 2.28 µg/kg bw/day (2.08-2.48). At the 95th percentile, exposure was estimated at 2.94 µg/kg bw/day in adults (2.58-3.37) and 4.73 µg/kg bw/day in children (3.88-5.24). The ADI was not exceeded by any adults (Tables G16 and G17). The ADI was exceeded in 0.4% of children [0.1; 0.8] for the upperbound, but by no children for the lowerbound. In the framework of the Member States' 2008 surveillance programmes and the European coordinated programme, DTCs were detected in 11.4% of analysed fruit and vegetable samples and one cereal sample (EFSA 2010a). In France, in the framework of the 2008 surveillance programmes, they were detected in 6% of analysed fruit samples (seven crops) and in 19% of vegetable samples (27 crops), and particularly in salads and leafy vegetables and herbs (respectively 28% and 26% of analyses).

Relatively high analytical limits for this substance partly explain why the ADI was exceeded for the upperbound. However, this small percentage of children who exceeded the ADI was linked to a low ADI used here (propineb), whereas the most frequently used dithiocarbamates in agriculture are maneb and mancozeb (with an ADI seven times higher: 0.05 mg/kg bw/day).

As a result, in light of analytical uncertainties, it is not possible to exclude the risk with certainty. It is recommended to undertake new analyses using more sensitive analytical methods (LC-MS for example), primarily for the main theoretical contributors such as fruits and vegetables and non-alcoholic beverages (especially fruit juices), while also including an assay for ethylene thiourea (ETU) in heated foods, a major metabolite not tested in this study. After refining the estimation, it will be possible to draw a conclusion in terms of chronic risk, highlighted at this stage only for the upperbound in children.

It is also necessary to significantly improve the coverage rate for the diet that theoretically contributes to exposure (60% in adults and 70% in children). Whereas the sampling strategy explains respectively 27% and 44% of the theoretical diet not covered by the assessment, analytical capacities ultimately explain respectively 73% and 56% of the diet that was not covered. Indeed, these compounds could not be tested in certain beverages or in matrices considered complex such as dried fruits and sandwiches. And yet, the significant share of beverages in diets should be noted (10% for coffee in adults and 11% for non-alcoholic beverages in children according to INCA 2).

3.2.1.5. Imidazoles

Imidazoles are part of a group that inhibits sterol biosynthesis, and more specifically the biosynthesis of 14α-demethylase (IDM). This group makes up around 25% of the fungicide market and is frequently used in human and veterinary medicine. Imidazoles have experienced sharp growth over the past 20 years since they have good preventive and curative effects and a broad spectrum of action. Their use has been extended to cereals and fruit trees. Limiting their use and their combination with other fungicide types has limited the development of resistance (Leroux P 2005). The two active substances that were studied were imazalil and prochloraz.

Imazalil

Imazalil or enilconazole (35554-44-0) was introduced in 1977 as a systemic fungicide in fruit (citrus fruits, bananas) and vegetable (potato) crops and as a seed dressing for cereals (Tomlin 2006). The substance was identified as a priority by the ORP due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a). Imazalil has been included in Annex 1 of Directive 91/414 until 31 December 2011 (Directive 2007/21). In France, seven proprietary plant protection products containing imazalil are authorised for the treatment of potato seedlings, the storage of harvested bananas and the treatment of ornamental crops, as well as for the treatment of local farm animals (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that imazalil is not widely distributed in the body and is highly metabolised and eliminated in the urine (55%) or faeces (45%) (European Commission 2007b). According to Regulation 1272/2008, imazalil is not carcinogenic, mutagenic or reprotoxic. An ADI of 0.025 mg/kg bw/day was established on the basis of a one-year study in dogs (NOAEL of 2.5 mg/kg bw/day based on increased alkaline phosphatase activity and liver weight) (European Commission: The Netherlands 2009; FAO/WHO 2006). An ARfD of 0.05 mg/kg was established by the JMPR in 2005 based on the results of a developmental toxicity study in rabbits (foetal and maternal NOAEL of 5 mg/kg bw/day) (EFSA 2007; European Commission 2007b; FAO/WHO 2006). Various clinical effects have been observed in humans further to occupational overexposure: nausea during accidental oral exposure, ataxia, lethargy and dyspnoea (European Commission: The Netherlands 2009)

Risk assessment and characterisation

For 98.9% of the analysed samples (n=1072), no residues were detected. Seven samples (citrus fruit, orange juice, pears and processed potato-based products) had quantified values (from 0.07 mg/kg to 2 mg/kg) and five samples (soy dessert, grapefruit, oysters) contained non-quantified residues. Regarding oysters, it is likely that residues were found due to the proximity of lemons on the stands. Estimated mean levels ranged from 0.055 mg/kg (LB) to 0.07 mg/kg (UB) for potatoes and potato products and from 0.024 mg/kg (LB) to 0.04 mg/kg (UB) for fruits (Table G18).

Mean exposure in the adult population was estimated to be between 0.11 µg/kg bw/day (0.03-0.43) (LB) and 0.84 µg/kg bw/day (0.74-1.16) (UB). Mean exposure in the child population was estimated to be between 0.19 µg/kg bw/day (0.03-0.79) (LB) and 1.2 µg/kg bw/day (1.02-1.82) (UB). At the 95th percentile, exposure was estimated to be between 0.56 and 1.52 µg/kg bw/day in adults (0.13-2) and between 1.09 and 2.58 µg/kg bw/day in children (0.17-3.5). In both adults and children, the main contributors to exposure were potatoes and potato products (respectively 58% and 69% for the lowerbound and 9% and 13% for the upperbound), fruits (31% and 17%; 9% and 6%) and non-alcoholic beverages (10% and 14%; 6% and 11%) (Tables G19 and G20). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. The 95th exposure percentile reached no more than 6% of the ADI in adults and 10% in children for the upperbound. The risk associated with imazalil exposure is therefore not a public health issue.

Prochloraz

Prochloraz (67747-09-5) was first referenced in 1977 as a systemic fungicide in fruit and vegetable crops and as a seed dressing for cereals. Like imazalil, it is frequently used for the transport and storage of harvested plants (Tomlin 2006). The substance is a priority according to the French Observatory on Pesticide Residues due to a TMDI greater than 80% of the ADI in adults and children (Ménard, Héraud *et al.* 2008a). The substance was not included in Annex 1 of Directive 91/414 but there are exceptions at the European Community level until 31 December 2011 (Decision 2008/934). In France, 46 plant protection uses are authorised for cereals, peas, oil crops, beets, maize, flax, flower crops and alliaceous crops (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that prochloraz is widely distributed and metabolised in the body, does not accumulate and is rapidly eliminated (European Union: Ireland 2007). According to Regulation 1272/2008/EC, prochloraz is not classified as a carcinogenic, mutagenic or reprotoxic substance (European Union: Ireland 2007; JMPR 2001b). Long-term administration of the substance has primarily caused liver damage in dogs (NOAEL of 0.9 mg/kg bw/day) and rats (NOAEL of 1.3 mg/kg bw/day) (European Union: Ireland 2007; JMPR 2001b). An ADI of 0.01 mg/kg bw/day was established based on these effects. An ARfD of 0.1 mg/kg bw/day was established based on an NOAEL of 10 mg/kg bw/day for liver effects observed in a 14-day study in dogs (European Union: Ireland 2007).

Risk assessment and characterisation

None of the analysed samples (n=927) had any residues. For the upperbound (UB), with the exception of water (0.1 µg/L), estimated mean levels ranged from 0.002 mg/kg for seafood products and dairy products to 0.02 mg/kg for alcoholic and non-alcoholic beverages and chocolate (Table G18). For the upperbound (UB), the adult population's mean exposure was estimated at 0.3 µg/kg bw/day (0.28-0.32) and that of children was estimated at 0.26 µg/kg bw/day (0.24-0.28). At the 95th percentile, exposure was estimated at 0.61 µg/kg bw/day in adults (2.58-3.37) and 0.59 µg/kg bw/day in children (0.44-0.69) (Tables G19 and G20). The ADI was not exceeded by any adults or children. The 95th exposure percentile was 6% of the ADI in children and adults. The risk associated with prochloraz exposure is therefore not a public health issue.

3.2.1.6. Morpholines

Morpholines are inhibitors of sterol biosynthesis that more specifically inhibit 14Δ-reductase (Leroux, Delorme *et al.* 2002). This class of inhibitors is comprised of active substances having an amine function protonated at biological pH levels and included in a heterocycle named morpholine. Morpholines (fenpropimorph, tridemorph) have developed over the last few decades thanks to their marked specificity against powdery mildew and rust on cereals (E-phy 2010; Leroux P 2005). Although they have good curative action, their phytotoxicity on dicotyledons has limited their use on other crops, and particularly in vineyards, with the exception of spiroxamine (Leroux, Delorme *et al.* 2002). In the framework of this study, only fenpropimorph was considered to be a priority by the ORP due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a).

Fenpropimorph

Fenpropimorph (67564-91-4) has been used as a fungicide on cash crops in Europe since 1983 (Tomlin 2006). Included in Annex 1 of Directive 91/414/EC in May 2009 (Directive 2008/107/EC), the substance is used alone or in combination with other fungicides. In France, 30 proprietary plant protection products are available on the market for 31 authorised uses in cash crops (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that fenpropimorph is largely distributed in the liver and fat, fully metabolised and eliminated in both the urine and faeces. No bioaccumulation in the body has been observed (EFSA 2008b). According to Regulation 1272/2008/EC, fenpropimorph is not carcinogenic or mutagenic. However, it is classified as reprotoxic category 3 (R63: possible risk of harm to the unborn child). Short-term administration studies have shown that the liver is the main target organ. An ADI of 0.003 mg/kg bw/day was established based on the results of a two-year study in rats (NOAEL of 0.3 mg/kg bw/day, the level above which hepatic hypertrophy with histopathological changes is observed) (EFSA 2008b; FAO/WHO 2004). An ARfD of 0.03 mg/kg was established based on teratogenic effects observed in rabbits (NOAEL of 15 mg/kg bw/day) (EFSA 2008b).

Risk assessment and characterisation

None of the analysed samples (n=527) had any residues. For the upperbound, the highest estimated mean levels were found in vegetables excluding potatoes (UB=0.017 mg/kg) (Table G9).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.06 µg/kg bw/day (0.05-0.06) and that of children was estimated at 0.09 µg/kg bw/day (0.07-0.1). At the 95th percentile (UB), exposure was estimated at 0.11 µg/kg bw/day in adults (0.10-0.13) and at 0.18 µg/kg bw/day in children (0.15-0.23) (Tables G10 and G11). The ADI was not exceeded by any adults or children. The 95th exposure percentile was 4% of the ADI in adults and 6% in children. The risk associated with fenpropimorph exposure is therefore not a public health issue.

3.2.1.7. Organochlorines

Organochlorine insecticides were the first synthetic pesticides to be used on a large scale after World War II. These insecticides have at least one carbon-chlorine bond in their structure. There are three groups of organochlorine insecticides: DDT, HCH (hexachlorocyclohexane) and cyclodienes (Regnault-Roger and Philogène 2005).

This section describes only three organochlorines (chlorothalonil, dicofol and endosulfan) that are not considered as persistent organic pollutants under the Stockholm Convention. Persistent organic pollutants are described in a later section.

Chlorothalonil

A contact fungicide with good preventive efficacy, chlorothalonil (1897-45-6), which belongs to the benzenedicarbonitrile family, is used to control a large number of fungal diseases in a wide range of fruit, vegetable and cash crops, including in tropical regions. On plants, chlorothalonil remains primarily unchanged. In the soil, the substance has very little mobility and it is broken down mainly in the aquatic environment with the formation of numerous metabolites that are also biodegraded (Tomlin 2006). This fungicide has been included in Annex 1 of Directive 91/414/EC since 2005 (Directive 2005/53/EC). In France, 40 proprietary plant protection products are available on the market for 73 authorised uses in vegetable crops, cash crops and vineyards (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that chlorothalonil is widely distributed in the body, essentially in the kidneys, and is easily metabolised and excreted mainly in the faeces (>80% in rats) (European Commission, 2006). Chlorothalonil is not classified as mutagenic or reprotoxic. However, the substance is classified as a carcinogenic substance, category 3 (R40) according to Regulation (EC) No. 1272/2008 and in category 2B according to the IARC ('possibly carcinogenic to humans') (IARC 1999). Carcinogenesis studies in animals have highlighted an increased incidence of the onset of pre-neoplastic lesions of the kidneys and fore-stomach (European Commission 2006). On the basis of these histopathological observations, an ADI was set at 0.015 mg/kg bw/day based on an NOAEL of 1.5 mg/kg bw/day in a 90-day study in rats. After a single oral administration in rats, an ARfD of 0.6 mg/kg bw/day was established based on kidney effects (NOAEL of 60 mg/kg bw/day) (European Commission 2006). The available epidemiological data show that occupational exposure to chlorothalonil causes cutaneous lesions (contact dermatitis) (Bruynzeel and Van Ketel 1986; Dannaker, Maibach *et al.* 1993; Penagos, Jimenez *et al.* 1996).

Risk assessment and characterisation

For 99.2% of the analysed samples (n=1235), no residues were detected. Seven samples (tomatoes, cucumbers, radishes) had quantified values (0.01 to 0.04 mg/kg). Estimated mean levels in vegetables excluding potatoes ranged from 0.5 µg/kg (LB) to 6 µg/kg (UB). For the upperbound (UB), the highest estimated mean levels were found in potato-based products (21 µg/kg) (Table G21). Note that initial mean yields ranged from 62 to 106% for foodstuffs of animal origin and were 44% for fruits and vegetables (10 trials undertaken in November 2009 in the framework of the method's validation by the SCL35 laboratory).

Mean exposure in the adult population was estimated to be between 0.002 µg/kg bw/day (0.0001-0.005) (LB) and 0.12 µg/kg bw/day (0.10-0.15) (UB). Mean exposure in the child population was estimated to be between 0.002 µg/kg bw/day (0.0003-0.005) (LB) and 0.14 µg/kg bw/day (0.02-1.82) (UB). At the 95th percentile, exposure was estimated to be between 0.008 and 0.22 µg/kg bw/day in adults (0.0007-0.25) and between 0.01 and 0.3 µg/kg bw/day in children (0.0011-0.40). For the lowerbound (LB), vegetables excluding potatoes were the only contributors to exposure in both adults and children (Tables G22 and G23). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. The 95th exposure percentile was lower than 2% of the ADI for the two population sub-groups for the upperbound. The risk associated with chlorothalonil exposure is therefore not a public health issue.

Dicofol

Technical dicofol (115-32-2) is a mixture of p,p'-dicofol (80-85%) and o-p'-dicofol (15-20%) (JMPR 2002). The residue is defined as the sum of these isomers, expressed as dicofol (Regulation (EC) no. 396/2005). This non-systemic acaricide has been used since 1957 on a wide range of fruit, vegetable and cash crops (Tomlin 2006). It was considered a priority by the ORP due to a TMDI greater than 80% of the ADI and has high bioaccumulation potential in the soil (WHO 1996). In the European Community, the substance was not included in Annex 1 of Directive 91/414/EEC (Decision 2008/764). In France, the last date on which proprietary products made with dicofol could be used was 30 March 2010 (MAP 2009a)

Hazard characterisation

Toxicokinetic studies undertaken in animals show that dicofol is rapidly metabolised and eliminated mainly in the faeces. Lipophilic, it has high bioaccumulation potential in the adipose tissue (JMPR 2002). According to Regulation 1272/2008, dicofol is not classified as a carcinogenic, mutagenic or reprotoxic substance. Short- and long-term ingestion of dicofol causes histopathological and enzymatic modifications to the liver (JMPR 2002). An ADI of 0.002 mg/kg bw/day (set for the sum of p,p'-dicofol and o,p'-dicofol) was established based on these observed effects in a two-year study in rats (NOAEL of 0.22 mg/kg bw/day) (JMPR 2002). No ARfD has been established. The available epidemiological data show that occupational exposure to dicofol can cause severe neurological symptoms such as nausea, vomiting and dizziness (JMPR 2002).

Risk assessment and characterisation

No residues were detected in the analysed samples (n=1235). For the upperbound (UB), the highest estimated mean levels were found in vegetables excluding potatoes (0.02 mg/kg) (Table G21).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.24 µg/kg bw/day (0.22-0.25) and that of children was estimated at 0.26 µg/kg bw/day (0.24-0.28). At the 95th percentile (UB), exposure was estimated at 0.41 µg/kg bw/day in adults (0.38-0.46) and at 0.51 µg/kg bw/day in children (0.43-0.59) (Tables G22 and G23). The contributions of beverages for the upperbound were particularly due to relatively high LODs (Table G1). The ADI was not exceeded by any adults or children. The 95th exposure percentile was 20% and 25% of the ADI respectively in adults and children. The risk associated with dicofol exposure is therefore not a public health issue.

Endosulfan

Endosulfan is a combination of two stereoisomers. A non-systemic insecticide and acaricide, it acts by contact and ingestion. It has been used since the late 1950s on fruit and vegetable crops, but also on cash crops (cereals, maize, sorghum, etc.) (Tomlin 2006). It was considered a priority in this study since it was included in the exhaustive list of the food contamination monitoring and assessment programme GEMS/Food (WHO 2002). Unlike other organochlorines, it has moderate persistence in the soil with a half-life of 30 to 90 days and is mainly metabolised into endosulfan sulfate which breaks down more slowly (Footprint-PPDB 2010; Tomlin 2006). Endosulfan was not included in Annex 1 of Directive 91/414/EEC (Decision 2005/864). In France, the last date on which proprietary products containing this substance could be used was 20 November 2008 (MAP 2006).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that endosulfan is widely distributed, mainly in the liver and kidneys. It is easily metabolised and excreted mainly in the faeces (72% in rats). Endosulfan accumulates in the adipose tissue but is less lipophilic than most organochlorines. According to Regulation 1272/2008, endosulfan is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is classified as highly toxic if swallowed (T+, R28). In animals, short- and long-term exposure to endosulfan causes kidney failure (increased kidney size, modified pigmentation, toxic nephropathy) and affects the central nervous system (intense tremors, behavioural changes) (FAO/WHO 1999). An ADI of 0.006 mg/kg bw/day was determined for endosulfan (sum of endosulfan alpha, beta and sulfate) on the basis of effects on the kidneys (NOAEL of 0.6 mg/kg bw/day based on a two-year study in rats). An ARfD of 0.015 mg/kg bw/day was also set on the basis of neurotoxic effects (NOAEL of 1.5 mg/kg bw/day based on an acute neurotoxicity study in rats) (European Commission 2009).

Risk assessment and characterisation

For 99.8% of the analysed samples (n=1235), no residues were detected. One strawberry sample had a quantified residue level (0.07 mg/kg) and two samples (strawberries and melon) contained non-quantified residues. For the upperbound, the highest estimated mean levels were found in vegetables excluding potatoes (UB=0.06 mg/kg) (Table G21).

Mean exposure in the adult population was estimated to be between 0.001 µg/kg bw/day (0-0.004) (LB) and 0.42 µg/kg bw/day (0.4-0.46) (UB). Mean exposure in the child population was estimated to be between 0.001 µg/kg bw/day (0-0.004) (LB) and 0.52 µg/kg bw/day (0.51-0.54) (UB). At the 95th percentile, exposure was estimated to be between 0.005 and 0.71 µg/kg bw/day in adults (0-0.81) and between 0.007 and 1 µg/kg bw/day in children (0-1.14). For the lowerbound (LB), only fruits contributed to exposure (Tables G22 and G23). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. For the upperbound (UB), the 95th exposure percentile was equal to 12% of the ADI in adults and 17% of the ADI in children. The risk associated with endosulfan exposure is therefore not a public health issue.

3.2.1.8. Organotins

Organotins or organostannic compounds (OTCs) are organometallic compounds characterised by at least one direct bond between a carbon atom and a tin atom. Depending on the number of carbon-tin bonds, the compounds have different properties. Tri-substituted OTCs are used as biocides, wood protection products, antifouling paints and pesticides (EFSA 2004; IPCS 1980)[-]. Other OTCs are used as chemical catalysts and to manufacture plastics and food packaging (ATSDR 2005b). These compounds are easily adsorbed onto particles and their high lipophilia gives them high bioaccumulation potential in aquatic organisms. In animals and humans, triorganotins are metabolised into di- and mono-organotin compounds (EFSA 2004).

The four OTC fungicides tested in this study were cyhexatin, fenbutatin oxide, fentin acetate and fentin hydroxide. Their antifungal mode of action is based on the inhibition of oxidative phosphorylation, which stops the formation of ATP (Leroux P 2005). Fentin acetate and fentin hydroxide, which have low selectivity, were used in Europe until 2003, following their non-inclusion in Annex 1 of Directive 91/414/EC (Decision 2002/478; Decision 2002/479). Cyhexatin and fenbutatin oxide were also the subject of a decision in 2008 to not be included in Annex 1. These two substances were tested due to a TMDI greater than 80% of the ADI in children and/or adults (Ménard, Héraud *et al.* 2008a).

Cyhexatin

Cyhexatin (13121-70-5) is also referred to as tricyclohexyltin hydroxide. Marketed for the first time in 1972 as a miticide (US EPA 1988), it was then used as an acaricide on fruit crops and grapevines in particular in France (ACTA 2005). The residue is defined as the sum of azocyclotin and cyhexatin, expressed in cyhexatin (EC Regulation 396/2005). Cyhexatin and azocyclotin were withdrawn from the European market in 2008 following an investigation concerning their inclusion in Annex 1 to Directive 91/414/EC (Decision 2008/296). The deadline for using commercial plant protection products containing these active substances was set for 4 October 2009 (MAP 2008a).

Hazard characterisation

Cyhexatin is poorly absorbed orally (15%). It is eliminated within 48 hours, predominantly unchanged in the faeces (90%), and through urine for its metabolites (European Commission: Italy 2006; FAO/WHO 2006). According to Regulation 1272/2008/EC, cyhexatin is not classified as a carcinogenic, mutagenic or reprotoxic substance (European Commission: Italy 2006; FAO/WHO 2006). An ADI of 0.003 mg/kg bw/day was established based on a chronic oral exposure study in rats (NOAEL of 0.34 mg/kg bw/day based on the increased incidence of retinal atrophies and on hyperplasia of the bile ducts) (FAO/WHO 2006). An ARfD of 0.02 mg/kg bw/day was established, based on an NOAEL of 1.5 mg/kg bw/day from the embryotoxic effects observed in rabbits (FAO/WHO 2006).

Risk assessment and characterisation

No residues were detected in the 27 food products of animal origin analysed (n=195 samples), which included fishery products (Tables G3 and G24). Under the upperbound assumption (UB), the estimated mean concentrations varied between 0.003 mg/kg (seafood products, milk and ultra-fresh dairy products) and 0.005 mg/kg (eggs and egg products) (Table G24). As a guide, in the 2008 monitoring programmes undertaken by the European Union Member States, azocyclotin was detected in eight samples of fruit and vegetables of the 2444 samples analysed (EFSA, 2010). Monitoring programmes in France do not screen for cyhexatin and azocyclotin.

The coverage rate of the theoretically contributing diet by estimation was 46% for adults and 56% for children (Table G2). This level of coverage can be explained in part by the fact that the substance was not screened for in foods of plant origin, but only in foods of animal origin for analytical reasons, and in part by the exclusion of analytical results for cheese and butter (recovery rates were too high) (Table G24).

Under the upperbound assumption (UB), the mean exposure was estimated at 0.008 µg/kg bw/day (0.007-0.009) in the adult population and 0.027 µg/kg bw/day (0.025-0.03) in the child population. In the 95th percentile, exposure was estimated at 0.023 µg/kg bw/day in adults (0.021-0.025) and 0.073 µg/kg bw/day in children (0.064-0.099) (Tables G25 and G26). The ADI was not exceeded in adults or children. The 95th percentile of exposure was less than 3% of the ADI for adults and children. The risk associated with exposure to cyhexatin is therefore not a public health issue.

Fenbutatin oxide

Fenbutatin oxide (13356-08-6) was first placed on the market in 1974 as an acaricide for fruit, vegetable and ornamental crops (US EPA 1988). The substance is not included in Annex 1 to Directive 91/414/EEC (Decision 2008/934). In France, the deadline for using the corresponding proprietary plant protection products on nine vegetable crops and grapevines was set for 31 December 2010 (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals show that fenbutatin oxide, like cyhexatin, is poorly absorbed orally. It is not widely distributed in the organism and does not accumulate there. It has limited biotransformation and the substance is eliminated mainly through faeces (European Commission: Belgium 2006; Tomlin 2006). According to Regulation 1272/2008/EC, fenbutatin oxide is not classified as a carcinogenic, mutagenic or reprotoxic substance. Most of the effects observed are the consequence of the substance's irritant effect on the digestive tract: alteration of the intestinal mucous membrane, lower foetal weight and pre- and post-implantation loss (European Commission: Belgium 2006; Tomlin 2006). An ADI of 0.05 mg/kg bw/day was established from an NOAEL of 5 mg/kg bw/day based on irritation of the intestinal mucous membrane in a two-year study in rats (European Commission: Belgium 2006). It was not considered necessary to establish an ARfD when it was included in Annex 1 to Directive 91/414/EEC (European Commission: Belgium 2006).

Risk assessment and characterisation

No residues were detected in the 31 food products of animal origin analysed (n=135 samples), which included fishery products (Table G3). Under the upperbound assumption (UB), the mean concentrations were estimated at 0.002 mg/kg for all food groups (Table G24). As a guide, in the 2008 surveillance programmes undertaken by the European Union Member States, fenbutatin oxide was detected in 83 samples of fruit and vegetables of the 4781 samples analysed (EFSA, 2010). Monitoring programmes in France do not screen for fenbutin oxide.

The coverage rate of the theoretically contributing diet by estimation is 59% for adults and children (Table G2). This level of coverage can be explained in part by the fact that the substance was not screened for in foods of plant origin, but only in foods of animal origin for analytical reasons, and in part by the exclusion of analytical results for milk, ultra-fresh dairy products and eggs (recovery rates were too high) (Table G24).

Under the upperbound assumption (UB), the mean exposure was estimated at 0.003 µg/kg bw/day (0.0026-0.0031) in the adult population and 0.005 µg/kg bw/day (0.0044-0.0062) in the child population. In the 95th percentile (UB), exposure was estimated at 0.006 µg/kg bw/day in adults (0.0031-0.0065) and 0.014 µg/kg bw/day in children (0.0104-0.0159) (Tables G25 and G26). The ADI was not exceeded in adults or children. The 95th percentile of exposure was less than 0.03% of the ADI for adults and children. The risk associated with exposure to fenbutatin oxide is therefore not a public health issue.

3.2.1.9. Organophosphates

Organophosphorus pesticides are derived from phosphoric acid. They fall into three groups: aliphatic derivatives (acephate, dichlorvos, dimethoate, disulfoton, malathion, methamidophos, mevinphos and phorate), phenylic derivatives (fenitrothion, fenthion and parathion) and heterocyclic derivatives (phosmet, phosalone, endothion, etc.). Most of these lipophilic compounds are insoluble in water. They affect the nervous system of insects by inhibiting acetylcholinesterase, an enzyme that regulates nerve impulse. Organophosphates can be surface-acting, penetrating directly into the organism of insects, or systemic, taken up by the plant (Regnault-Roger and Philogène 2005).

This second generation of synthetic organic insecticides arrived on the market in the early 1950s, gradually replacing organochlorines because of their lower persistence in the environment. Currently with 152 molecules (Wood 2004), organophosphates remain the most widely used insecticides in the world due to their manifold modes of action and uses: plant protection substances, anti-parasitic veterinary products, etc.

Azinphos-methyl

Azinphos-methyl (86-50-0) is an insecticide/acaricide that has been used on a number of crops around the world since the early 1960s (Barnes and Moffitt 1963). The French Observatory on Pesticide Residues (ORP) considered this pesticide a priority in 2006 due to a TMDI exceeding 80% of the ADI for children (Ménard, Héraud *et al.* 2008a). Its reassessment prompted the decision at European level not to include the substance in Annex 1 (Regulation 1335/2005). In France, the deadline to use up stocks of preparations containing this active substance was set for 31 December 2007 (Opinion of 24 March 2007).

Hazard characterisation

Toxicokinetic studies conducted in animals show that azinphos-methyl is metabolised in the liver and kidneys and excreted mainly in urine (>60% in 48 hours for rats), without accumulating in the body (JMPR 1991). According to Regulation 1272/2008/EC, azinphos-methyl is not classified as a carcinogenic, mutagenic or reprotoxic substance. The substance is nevertheless classified as very toxic if swallowed (T+, R28). Short- and long-term exposure to azinphos-methyl in animals leads mainly to an inhibition of acetylcholinesterase activity (JMPR 1991). Reprotoxicity studies conducted in animals show that the substance causes a drop in fertility and lower maternal body weight. On the other hand, the substance does not produce any teratogenic effects (JMPR 1991). An ADI of 0.005 mg/kg bw/day was established based on the effects observed on reproduction from an NOAEL of 0.48 mg/kg bw/day in a study conducted in rats. The ARfD of 0.01 mg/kg is based on cholinesterase inhibition (NOAEL of 1 mg/kg bw/day in an acute toxicity study conducted in humans) (JMPR 1991).

Risk assessment and characterisation

No residues were detected in 99.7% of the samples analysed (n=1235). Only three samples of fresh apple contained 0.01 to 0.05 mg/kg of residue. The mean concentrations estimated for fruit varied between 0.0004 (LB) and 0.01 mg/kg (UB). Under the upperbound assumption, the highest mean concentrations estimated concerned vegetables excluding potatoes (UB = 0.04 mg/kg) (Table G27). The estimated mean exposure of the adult population was between 0.003 µg/kg bw/day (0-0.011) (LB) and 0.4 µg/kg bw/day (0.37-0.42) (UB). The estimated mean exposure for children was between 0.003 µg/kg bw/day (0-0.014) (LB) and 0.44 µg/kg bw/day (0.42-0.46) (UB). At the 95th percentile, estimated exposure was between 0.02 and 0.73 µg/kg bw/day for adults (0-0.81) and between 0.02 and 0.89 µg/kg bw/day for children (0-1.14). Under the lowerbound assumption (LB), fruit was the only contributor to exposure (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in adults or children. Under the upperbound assumption (UB), the 95th percentile of exposure was between 15% and 18% of the ADI respectively for adults and children. The risk associated with exposure to azinphos-methyl is therefore not a public health issue.

Chlorfenvinphos

Chlorfenvinphos has been used for around forty years for crops, seed dressing, agricultural and livestock buildings, and as an anti-parasitic veterinary product in tropical countries in particular (INERIS 2009). The French Observatory on Pesticide Residues (ORP) considered this pesticide a priority in 2006 due to a TMDI exceeding 80% of the ADI for children and adults (Ménard, Héraud *et al.* 2008a). The substance was not included in Annex 1 to Directive 91/414/EEC (Regulation 2076/2002/EC). In France, the deadline for using plant protection preparations containing this active substance was set for 31 December 2007 (MAP 2007d).

Hazard characterisation

Toxicokinetic studies conducted in animals show that chlorfenvinphos is metabolised and excreted mainly in urine (>50% in 24 hours for rats) (FAO/WHO 1994). According to Regulation 1272/2008/EC, chlorfenvinphos is not classified as a carcinogenic, mutagenic or reprotoxic substance. The substance is nevertheless classified as very toxic if swallowed (T+, R28). Short- and long-term exposure to chlorfenvinphos in animals leads to an inhibition of acetylcholinesterase activity (FAO/WHO 1994). Reprotoxicity studies conducted in animals show that the substance causes a drop in fertility and maternal post-implantation loss. On the other hand, exposure to chlorfenvinphos does not produce any teratogenic effects (FAO/WHO 1994). An ADI of 0.0005 mg/kg bw/day was established based on the effects observed on reproduction from an NOAEL of 0.05 mg/kg bw/day in a two-generation study conducted in rats (FAO/WHO 1994). No ARfD was retained at the European level.

Risk assessment and characterisation

No residues were detected for 99.7% of the samples analysed (n=1235). Four samples (turnip and radish) had quantified concentrations of residue (from 0.02 to 0.05 mg/kg). The mean concentrations estimated for vegetables excluding potatoes varied between 0.001 (LB) and 0.009 mg/kg (UB). This mean (UB) is the highest of all food groups (Table G27).

Mean exposure in the adult population is estimated between 0.0006 µg/kg bw/day (0-0.003) (LB) and 0.12 µg/kg bw/day (0.11-0.12) (UB). The mean exposure for children is estimated between 0.0001 µg/kg bw/day (0-0.0002) (LB) and 0.13 µg/kg bw/day (0.12-0.14) (UB). In the 95th percentile, exposure is estimated between 0.0003 and 0.20 µg/kg bw/day for adults (0-0.23) and between 0 and 0.25 µg/kg bw/day for children (0-0.29). Vegetables excluding potatoes are the only contributors to exposure under the lowerbound assumption (LB) and the main contributors to exposure under the upperbound (UB) (12% for adults and children) (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in adults or children. Under the upperbound assumption (UB), the 95th percentile of exposure was between 40% and 50% of the ADI respectively for adults and children. The risk associated with exposure to chlorfenvinphos is therefore not a public health issue.

Chlorpyrifos-ethyl

Chlorpyrifos-ethyl or chlorpyrifos (2921-88-2), a non-systemic insecticide, was first marketed in 1965 for the protection of a hundred or so crop species, including a number of tree species. It has also been identified for its use as a biocide (animal dwellings) and to control mosquitoes. In the soil, chlorpyrifos slowly breaks down into other organochlorine compounds and carbon dioxide (Tomlin 2006). This pesticide was considered a priority in 2006 in view of its inclusion in the GEMS-Food list (WHO 2002). The substance is included in Annex 1 to Directive 91/414 (Directive 2005/72). In France, 57 uses are authorised for fruit and vegetable crops, vine fruits, and the disinsectisation of farmland, buildings and livestock transport equipment (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals show that chlorpyrifos is metabolised and excreted mainly in urine (>80% in 48 hours for rats) (European Commission 2005b). According to Regulation 1272/2008/EC, chlorpyrifos is not classified as a carcinogenic, mutagenic or reprotoxic substance. The substance is nevertheless classified as toxic if swallowed (T, R25). Reprotoxicity studies conducted in rabbits and rats show that the substance causes post-implantation loss and alterations in the maternal adrenal glands. On the other hand, exposure to chlorpyrifos does not produce any teratogenic effects or signs of delayed neurotoxicity. Short- and long-term exposure to chlorpyrifos mainly leads to an inhibition of acetylcholinesterase activity, regardless of animal species (European Commission 2005b). An ADI of 0.01 mg/kg bw/day was established based on the inhibition of brain cholinesterase activity, from an NOAEL of 1 mg/kg bw/day in a two-year study on rats (European Commission 2005b). Based on these effects observed, an ARfD of 0.1 mg/kg bw/day was established with an NOAEL of 10 mg/kg bw/day from a neurotoxicity study conducted in rats (European Commission 2005b).

Risk assessment and characterisation

No residues were detected for 96.6% of the samples analysed (n=1235). Only 14 samples (apple, peach, pear and white grape as well as cooked merguez sausage) had quantified concentrations of residue between 0.003 and 0.135 mg/kg. The estimated mean concentrations of fruit varied from 0.004 (LB) to 0.008 mg/kg (UB), while those of delicatessen meats did not exceed 0.001 mg/kg (UB). Under the upperbound assumption (UB), the highest mean concentrations estimated were for vegetables excluding potatoes (0.02 mg/kg) and fruit (0.008 mg/kg) (Table G27).

The estimated mean exposure of the adult population was between 0.01 µg/kg bw/day (0.01-0.03) (LB) and 0.14 µg/kg bw/day (0.13-0.16) (UB). The estimated mean exposure for children was between 0.01 µg/kg bw/day (0.005-0.012) (LB) and 0.15 µg/kg bw/day (0.14-0.16) (UB). At the 95th percentile, exposure was estimated between 0.05 and 0.26 µg/kg bw/day for adults (0.03-0.3) and between 0.04 and 0.3 µg/kg bw/day for children (0.02-0.37). Under the lowerbound assumption (LB), fruit was the main contributor to exposure for adults and children alike (98%), followed by vegetables excluding potatoes (< 2%) and delicatessen meats (<0.5%) (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in adults or children. Under the upperbound assumption (UB), the 95th percentile of exposure was less than 3% of the ADI in adults and children. The risk associated with exposure to chlorpyrifos-ethyl is therefore not a public health issue.

Chlorpyrifos-methyl

Chlorpyrifos-methyl (5598-13-0) is a non-systemic insecticide and acaricide. Its primary uses are for citrus fruit, grapevines, the post-harvest treatment of cereal grains before storage, the treatment of storage facilities and vector control (Tomlin 2006). The French Observatory on Pesticide Residues (ORP) considered this pesticide a priority in 2006 due to a TMDI exceeding 80% of the ADI and its inclusion in the GEMS-food list (Ménard, Héraud *et al.* 2008a; WHO 2002). The compound was included in Annex 1 to Directive 91/414/EEC (Directive 2005/72). In France, 10 commercial products are authorised for all of these plant protection uses, as well as against owlet moths on all crops ('blanket treatments') (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals show that chlorpyrifos-methyl is metabolised and excreted mainly in urine (European Commission 2005a). According to Regulation 1272/2008, chlorpyrifos-methyl is not classified as a carcinogenic, mutagenic or reprotoxic substance. Reprotoxicity studies conducted in rabbits and rats show that the substance causes post-implantation loss and alterations in the maternal adrenal glands. On the other hand, exposure to chlorpyrifos-methyl does not produce any teratogenic effects or signs of delayed neurotoxicity (European Commission 2005a). Short- and long-term exposure to chlorpyrifos-methyl leads mainly to an inhibition of acetylcholinesterase activity, regardless of animal species. An ADI of 0.01 mg/kg bw/day was established based on the inhibition of brain cholinesterase activity, from an NOAEL of 1 mg/kg bw/day based on a two-year study in rats (European Commission 2005a). Based on these effects observed, an ARfD of 0.1 mg/kg bw/day was established based on an NOAEL of 10 mg/kg bw/day in a neurotoxicity study conducted in rats) (European Commission 2005a).

Risk assessment and characterisation

For 97.7% of the analysed samples (n=1235), no residues were detected. Eleven samples (breads, sandwiches, pancakes and fresh green grapes) had quantified values ranging from 0.01 to 0.02 mg/kg. Trace residues were detected in croissant-like pastries, biscuits, lentils and bell peppers. For the upperbound (UB), the highest estimated mean levels were found in vegetables excluding potatoes (0.02 mg/kg), croissant-like pastries (0.009 mg/kg), bread (0.008 mg/kg), sweet and savoury biscuits and bars (0.007 mg/kg) and sandwiches (0.007 mg/kg) (Table G27).

Mean exposure in the adult population was estimated to be between 0.005 µg/kg bw/day (0.004-0.005) (LB) and 0.135 µg/kg bw/day (0.128-0.142) (UB). Mean exposure in the child population was estimated to be between 0.007 µg/kg bw/day (0.005-0.008) (LB) and 0.15 µg/kg bw/day (0.144-0.163) (UB). At the 95th percentile, exposure was estimated to be between 0.01 and 0.23 µg/kg bw/day in adults (0.01-0.25) and between 0.02 and 0.3 µg/kg bw/day in children (0.01-0.34). For the lowerbound (LB), bread was the main contributor to exposure in adults and children (respectively 75% and 54%), together with biscuits and bars (respectively 7% and 23%) and sandwiches and snacks (respectively 10% and 11%) (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in any subjects. For the upperbound (UB), the 95th exposure percentile was lower than 3% of the ADI in children and adults. The risk associated with chlorpyrifos-methyl exposure is therefore not a public health issue.

Diazinon

Diazinon (333-41-5) is used as a non-systemic insecticide, acaricide and nematicide. Developed in 1952, it is used in agriculture (fruits and vegetables, cash crops, soil treatment), as a biocide (control of arthropods in houses and farm buildings) (Regulation 1451/2007/EC) and as a veterinary antiparasitic for external use (pets and farm animals) (ANSES 2010b; Directive 2001/82). This pesticide was considered a priority in 2006 by the ORP due to a TMDI greater than 80% of the ADI in children and adults (Ménard, Héraud *et al.* 2008a). The substance was not included in Annex 1 of Directive 91/414/EEC further to its reassessment (Decision 2007/393). In France, the last date on which it could be used was 1 December 2008 (MAP 2007a).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that diazinon is mainly distributed in the red blood cells, fat and ovaries, metabolised and then excreted primarily in the urine (EFSA 2006d). Diazinon is not classified as a carcinogenic, mutagenic or reprotoxic substance. In animals, short- and long-term exposure to diazinon primarily inhibits acetylcholinesterase activity (EFSA 2006d). Reprotoxicity studies undertaken in animals show that the substance causes maternal toxicity, decreased litter size and increased offspring mortality. However, exposure to diazinon does not cause teratogenic effects or signs of delayed neurotoxicity (EFSA 2006d). The ADI of 0.0002 mg/kg bw/day was established on the basis of inhibited erythrocyte acetylcholinesterase activity based on an NOAEL of 0.02 mg/kg bw/day from 90-day and one-year studies in dogs (EFSA 2006d). An ARfD of 0.025 mg/kg bw/day was established based on an NOAEL of 2.5 mg/kg bw/day on the basis of these same effects during acute neurotoxicity studies in rats (EFSA 2006d).

Risk assessment and characterisation

None of the analysed samples (n=1233) had quantified values. Only one sample (cooked merguez sausage) had a level lower than the LOQ. Use of this substance in the control of carrot flies (which attack cumin, a major ingredient in merguez sausage), as a biocide or veterinary antiparasitics, could explain this detection. For the upperbound, the highest estimated mean level was found in vegetables excluding potatoes (UB=0.009 mg/kg) (Table G27). As a comparison, in the framework of the Member States' 2008 surveillance programmes and the European coordinated programme, the substance was detected in 125 fruit and vegetable samples (n=55,968) (EFSA 2010a). In France, the substance was detected in three samples (pears, artichokes and cow's milk). The lack of detection in fruits and vegetables as consumed may be due to a decrease in potential residual levels related to the nature (composite) of the TDS sample and to high LODs for vegetables (0.02 mg/kg).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.13 µg/kg bw/day (0.13-0.14) and that of children was estimated at 0.16 µg/kg bw/day (0.16-0.18). At the 95th percentile, exposure was estimated at 0.22 µg/kg bw/day in adults (0.2-0.25) and 0.31 µg/kg bw/day in children (0.26-0.35) (Tables G28 and G29). For the lowerbound, delicatessen meats were the only contributor to exposure in adults and children. For the upperbound, the ADI was exceeded in 10% of adults [9; 12] and 28% of children [26; 31], but it was not exceeded in any subjects for the lowerbound. This level was exceeded due to a low ADI and high analytical limits for vegetables.

Consequently, chronic risk associated with diazinon exposure cannot be ruled out with certainty. Since the substance has been detected in surveillance plans, it is recommended to undertake new, more sensitive analyses, mainly for vegetables as consumed (lower analytical limits), in order to refine the estimation of exposure.

Dichlorvos

Dichlorvos (62-73-7) has been used since the 1960s as an insecticide and acaricide for agricultural and domestic purposes and as an antiparasitic in human and veterinary medicine (FAO/WHO 1968; Kamrin 1997). It has been used in numerous greenhouse and field crops and for grain protection in silos (INRS 2007c). This substance was considered a priority in 2006 by the ORP due to a TMDI greater than 80% of the ADI in children and adults (Ménard, Héraud *et al.* 2008a). In the European Community, it was not included in Annex 1 of Directive 91/414/EEC (Decision 2007/387). In France, most agricultural uses were withdrawn in 2007, and the only remaining authorised uses are the treatment of citrus fruits against Mediterranean fruit flies and the disinfestation of farm and grain storage facilities (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that dichlorvos is widely distributed and metabolised and is excreted primarily in the urine, without accumulating in the body (EFSA 2006e). According to Regulation 1272/2008/EC, dichlorvos is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is toxic if swallowed (T, R25). In animals, short- and long-term exposure to dichlorvos primarily inhibits acetylcholinesterase activity (EFSA 2006e). Reprotoxicity studies in animals show that the substance inhibits plasma, erythrocyte and brain cholinesterase activity in mothers and offspring. No conclusions have been established regarding the teratogenic nature of dichlorvos (EFSA 2006e). In Europe, no ADI or ARfD has been validated due to a lack of data (EFSA 2006e). However, an ADI of 0.004 mg/kg bw/day was proposed by the JMPR on the basis of inhibited erythrocyte acetylcholinesterase activity based on an NOAEL of 0.04 mg/kg bw/day from a study in humans (JMPR 1993a).

Risk assessment and characterisation

None of the analysed samples (n=860) had quantified values. Only one sample (strawberries) had a level lower than the LOQ. For the upperbound (UB), the highest estimated mean level was found in vegetables excluding potatoes (0.04 mg/kg). The mean level in fruits was estimated at 0.01 mg/kg (Table G27).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.3 µg/kg bw/day (0.29-0.33) and that of children was estimated at 0.34 µg/kg bw/day (0.33-0.36). At the 95th percentile, exposure was estimated at 0.53 µg/kg bw/day in adults (0.49-0.57) and 0.68 µg/kg bw/day in children (0.60-0.82). For the lowerbound (LB), fruits were the only contributors (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in any subjects. For the upperbound, the 95th exposure percentile was 13% and 17% of the ADI respectively in adults and children. The risk associated with dichlorvos exposure is therefore not a public health issue.

Dimethoate/omethoate

Dimethoate (60-51-5) and omethoate (1113-02-6) are systemic insecticides and acaricides that have been used around the world since the 1950s for the protection of fruit and vegetable crops (FAO/WHO 1984; Tomlin 2006). These substances were considered priorities by the ORP due to a TMDI greater than 80% of the ADI in children and adults (Ménard, Héraud *et al.* 2008a). In the environment and in treated plants, dimethoate is primarily metabolised to omethoate, which is more toxic (EFSA, 2006). For surveillance and monitoring, the residue is defined as the sum of dimethoate and omethoate, expressed as dimethoate. In the European Community, only dimethoate was included in Annex 1 of Directive 91/414/EEC (Decision 2007/25), omethoate having been withdrawn in 2002 (Regulation 2076/2002). In France, 26 plant protection uses are authorised in viticulture and for four fruit crops and six vegetable crops (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that dimethoate is distributed and metabolised primarily into omethoate (around 5%) in the liver. It is rapidly excreted, primarily in the urine (>90% within 24 hrs. in rats) (EFSA 2006f). According to Regulation 1272/2008/EC, dimethoate and omethoate are not classified as carcinogenic, mutagenic or reprotoxic substances. In animals, short- and long-term exposure to dimethoate or omethoate primarily inhibits erythrocyte and cerebral acetylcholinesterase activity (EFSA 2006f). Omethoate is three times more toxic than dimethoate for chronic risk and six times more toxic for acute risk, which was taken into account in the residue definition (EFSA 2006f). For dimethoate, an ADI of 0.001 mg/kg bw/day was established on the basis of inhibited cholinesterase activity (combined NOAEL of 0.1 mg/kg bw/day from a 90-day study in rats). An ARfD of 0.01 mg/kg bw/day was established on the basis of these same effects (NOAEL of 1 mg/kg bw/day based on an acute neurotoxicity study in rats) (EFSA 2006f).

Risk assessment and characterisation

For 99.75% of the analysed samples (n=1219), no residues were detected. Three composite samples had quantified values (0.18 and 0.28 mg/kg in cherries and 0.025 mg/kg in endives), one of which exceeded the MRL (MRL of 0.02 mg/kg for endives). Dimethoate is authorised in the control of cherry and endive flies in France.

As a comparison, in the framework of the Member States' 2008 surveillance programmes and the European coordinated programme, dimethoate and/or omethoate were detected in 1.3% of the analysed fruit (orange, mandarin, pear) and vegetable (potato, cucumber, carrot, spinach) samples (n=52,502) (EFSA 2010a). Dimethoate was also one of the substances for which MRLs were exceeded the most often (bell peppers, aubergines, cucumbers, beans from Spain and Thailand) (EFSA 2010a). In France, in the framework of the 2008 surveillance plan of the Directorate General for Competition Policy, Consumer Affairs and Fraud Control (DGCCRF), the substances were detected in 1.2% of fruit samples (cherries, strawberries) (n=1536) and 0.15% of vegetable samples (carrots, herbs, beans) (n=2726). More specifically, the substances were detected in respectively 47% and 0.5% of the analysed cherries and carrots (of French origin). Respectively 3% and 100% of the cherry and carrot samples would be considered non-compliant with the MRLs.

Estimated mean levels for fruits ranged from 0.028 mg/kg (LB) to 0.061 mg/kg (UB) (Table G27). For vegetables, they ranged from 0.0003 mg/kg (LB) to 0.063 mg/kg (UB). For the upperbound (UB), the highest estimated levels were found in beverages (0.07 mg/kg) due to relatively high LODs for these substance-matrix combinations (Table G27).

Mean exposure in the adult population was estimated to be between 0.02 µg/kg bw/day (0.01-0.04) (LB) and 1.24 µg/kg bw/day (1.14-1.31) (UB). Mean exposure in the child population was estimated to be between 0.02 µg/kg bw/day (0.01-0.07) (LB) and 1.2 µg/kg bw/day (1.1-1.4) (UB). At the 95th percentile, exposure was estimated to be between 0.04 and 2.35 µg/kg bw/day in adults (0-2.7) and between 0.02 and 2.5 µg/kg bw/day in children (0-3). For the lowerbound (LB), fruits were the main contributors to exposure in adults and children (respectively 98% and 99%), followed by vegetables (2% and 1%) (Tables G28 and G29). The ADI was exceeded in 0.4% of adults [0.1;0.6] and 0.6% of children [0.2;1] under the lowerbound (LB) assumption. It was exceeded only by large cherry consumers. Note that the ADI was exceeded only for dimethoate under the lowerbound contamination assumption. For the upperbound (UB), the ADI was exceeded in 59% of adults [57; 61] and 53% of children [50; 56].

The ADI was exceeded for the lowerbound due to a low ADI (1 µg/kg bw/day) and a definition of residue for the assessment of chronic risk integrating a high adjustment factor for omethoate (x3). As a comparison, the exposure characterisation undertaken by EFSA based on residual data from the 2008 surveillance programme for foodstuffs of plant origin, without application of the factor of 3 for omethoate as in the TDS, showed estimated daily intakes that did not exceed 65% of the ADI (EFSA 2010a).

The ADI was exceeded for the upperbound due to these factors and also relatively high analytical limits for vegetables and beverages, particularly for omethoate. In light of the analytical uncertainties (high LODs), it is recommended to undertake new, more sensitive analyses or to improve the existing analytical methods to refine the estimation of consumer exposure.

Consequently, chronic risk associated with dimethoate exposure cannot be ruled out for certain consumer groups (large cherry consumers). However, it should be noted that cherry consumption is seasonal and occurs only during a few weeks of each year. Exposure was estimated for the week of the INCA 2 study (see Method) and extrapolated to an annual level for the risk characterisation. This approach tends to overestimate chronic exposure to dimethoate.

Ethion

Ethion or diethion (563-12-2) is a non-systemic insecticide and acaricide that acts by contact. It has been used around the world since 1957 on a large number of cultivated species (Tomlin 2006). Ethion was considered a priority by the ORP due to a TMDI greater than 80% of the ADI in children and adults (Ménard et al., 2008). It does not accumulate in the soil (Tomlin 2006). The substance was not included in Annex 1 of Directive 91/414/EEC (Decision 2002/2076/EC). In France, the last date on which it could be used was 31 December 2007 (Opinion of 31 August 2007).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that ethion is easily metabolised and is primarily excreted in the urine, without accumulating in the body (JMPR, 1986). According to Regulation 1272/2008/EC, ethion is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is classified as toxic if swallowed (T, R25). In animals, short- and long-term exposure to ethion primarily inhibits plasma, erythrocyte and cerebral acetylcholinesterase activity (JMPR 1990). Developmental toxicity studies undertaken in animals show that the substance causes foetal toxicity: reduced foetal weight, delayed ossification and incomplete or even absent ossification. However, exposure to ethion does not have effects on fertility (JMPR 1986) or cause signs of delayed neurotoxicity (JMPR 1990). An ADI of 0.002 mg/kg bw/day was established by the JMPR based on effects observed on foetal development (NOAEL of 0.2 mg/kg bw/day from a teratogenic study undertaken in rats) (JMPR 1990). No ARfD is available in the literature.

Risk assessment and characterisation

For 99.5% of the analysed samples (n=1235), no residues were detected. Only one sample of vegetable soup had a quantified value (0.042 mg/kg) and two samples (apple and cooked merguez sausage) contained trace residues. The highest estimated mean levels (soups and broths) ranged from 0.0007 (LB) to 0.006 mg/kg (UB) (Table G27).

Mean exposure in the adult population was estimated to be between 0.001 µg/kg bw/day (0-0.01) (LB) and 0.12 µg/kg bw/day (0.11-0.12) (UB). Mean exposure in the child population was estimated to be between 0.002 µg/kg bw/day (0-0.02) (LB) and 0.14 µg/kg bw/day (0.13-0.15) (UB). At the 95th percentile, exposure was estimated to be between 0.004 and 0.20 µg/kg bw/day in adults (0-0.23) and between 0.005 and 0.27 µg/kg bw/day in children (0.0002-0.32). For the lowerbound (LB), soups and broths were the main contributors to exposure in both adults and children (respectively 94% and 96%) (Tables G28 and G29). The ADI was not exceeded irrespective of the assumption. The 95th exposure percentile was 10% of the ADI in adults and 14% in children. The risk associated with ethion exposure is therefore not a public health issue.

Fenitrothion

Fenitrothion (122-14-5) is an insecticide that was introduced in 1962 to control a wide range of field crop pests and stored foodstuffs (Tomlin 2006). It has also been frequently used for the disinfestation of farming areas and homes and as part of vector control. Fenitrothion was considered a priority by the ORP in light of its inclusion on the GEMS-Food list (WHO, 2002). In the European Community, the substance was not included in Annex 1 of Directive 91/414/EC (Decision 2007/379). Currently in France, only the disinfestation of farm buildings remains authorised (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that fenitrothion is mainly distributed in the liver, easily metabolised and primarily excreted in the urine, without accumulating in the body (EFSA 2006g). According to Regulation 1272/2008/EC, fenitrothion is not classified as a carcinogenic, mutagenic or reprotoxic substance. Short- and long-term exposure to fenitrothion primarily inhibits erythrocyte and cerebral acetylcholinesterase activity (EFSA 2006g). Reprotoxicity studies in animals show that the substance causes reduced newborn weight and increased offspring mortality. However, exposure to fenitrothion does not have teratogenic effects or cause signs of delayed neurotoxicity (EFSA 2006g). An ADI of 0.005 mg/kg bw/day was established by EFSA on the basis of inhibited erythrocyte and brain cholinesterase activity (NOAEL of 0.5 mg/kg bw/day based on a two-year study in rats) (EFSA 2006g). An ARfD of 0.013 mg/kg bw/day was established on the basis of these same effects (NOAEL of 1.32 mg/kg bw/day based on a 90-day study in rats) (EFSA 2006g).

Risk assessment and characterisation

No residues were quantified in the analysed samples (n=1235). Only one artichoke sample had trace residues. For the upperbound, the highest estimated mean level was found in vegetables excluding potatoes (UB=0.02 mg/kg) (Table G27). For the upperbound (UB), the adult population's mean exposure was estimated at 0.14 µg/kg bw/day (0.13-0.15) and that of children was estimated at 0.16 µg/kg bw/day (0.15-0.17). At the 95th percentile, exposure was estimated at 0.24 µg/kg bw/day in adults (0.22-0.26) and 0.32 µg/kg bw/day in children (0.28-0.37). Vegetables excluding potatoes were the only contributors to exposure for the lowerbound (LB) and the main contributors for the upperbound (UB) in adults as well as children (respectively 22% and 23%) (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in any subjects. For the upperbound (UB), the 95th exposure percentile was equal to 5% of the ADI in adults and 6% of the ADI in children. The risk associated with fenitrothion exposure is therefore not a public health issue.

Fenthion

Fenthion (55-38-9) is a contact insecticide that mainly acts by ingestion and inhalation. It has been used around the world since 1960 to control fruit flies, caterpillars, borers and other insects in fruit crops including in vineyards and tropical crops (Tomlin 2006). This substance was considered a priority in 2006 by the ORP due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a). The substance is not included in Annex 1 of Directive 91/414/EC (Decision 2004/140). In France, the last date on which proprietary plant protection products containing fenthion could be used was 31 July 2005 (MAP 2004). The residue is defined as the sum of fenthion, fenthion-sulfoxide and fenthion-sulfone, expressed as fenthion (Regulation (EC) no 396/2005).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that fenthion is metabolised and excreted primarily in the urine, without accumulating in the body (JMPR 1995a). According to Regulation 1272/2008/EC, fenthion is not classified as a carcinogenic or reprotoxic substance. Since the non-genotoxic character of fenthion has not been demonstrated by regulatory tests, the substance is classified as a mutagenic category 3 (Xn, R68: possible mutagenic effects). Fenthion is also toxic in case of prolonged exposure from swallowing (T, R48/25). In animals, short- and long-term exposure to fenthion primarily inhibits erythrocyte and cerebral acetylcholinesterase activity (JMPR 1995a). These same effects have been observed in reprotoxicity studies with reduced fertility, implantation sites, litter size and offspring survival. An ADI of 0.007 mg/kg bw/day and an ARfD of 0.01 mg/kg bw/day were established for fenthion on the basis of inhibited erythrocyte cholinesterase activity (based respectively on an NOAEL of 0.07 mg/kg bw/day from a study undertaken in humans and an NOAEL of 1 mg/kg bw/day in rats) (JMPR 1995a; JMPR 1997a).

Risk assessment and characterisation

No residues were detected in the analysed samples (n=1235). For the upperbound, the highest estimated mean levels were found in vegetables excluding potatoes (UB=0.017 mg/kg), fruits (UB=0.015 mg/kg) and potatoes and potato products (UB=0.011 mg/kg) (Table G27).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.25 µg/kg bw/day (0.23-0.26) and that of children was estimated at 0.29 µg/kg bw/day (0.27-0.33). At the 95th percentile, exposure was estimated at 0.43 µg/kg bw/day in adults (0.38-0.47) and 0.57 µg/kg bw/day in children (0.46-0.66) (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in any subjects. For the upperbound (UB), the 95th exposure percentile was equal to 6% of the ADI in adults and 8% of the ADI in children. The risk associated with fenthion exposure is therefore not a public health issue.

Malathion

Malathion (121-75-5) is used as a non-systemic insecticide and acaricide. Discovered in 1952, it has mainly been used in agriculture (fruits and vegetables, cash crops, soil treatment), but also in vector control (control of Culicidae) and as an antiparasitic in human and veterinary medicine (Tomlin 2006). This pesticide was considered a priority in 2006 by the ORP due to a TMDI greater than 80% of the ADI in children and adults (Ménard, Héraud *et al*. 2008a) and its inclusion on GEMS-Food's exhaustive list (WHO 2002). The substance was recently included in Annex 1 of Directive 91/414/EEC (Decision 2010/17/EU). The residue is defined as the sum of malathion and its metabolite malaoxon, expressed as malathion (Regulation (EC) no 396/2005).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that malathion is easily metabolised and is excreted primarily in the urine and faeces within 24 hrs, without accumulating in the body (EFSA 2009c; Tomlin 2006). According to Regulation 1272/2008/EC, malathion is not classified as a carcinogenic, mutagenic or reprotoxic substance. In animals, short- and long-term exposure to malathion primarily inhibits erythrocyte and cerebral acetylcholinesterase activity (EFSA 2009c). An ADI of 0.03 mg/kg bw/day was established on the basis of inhibited brain cholinesterase activity (NOAEL of 29 mg/kg/day based on a study in rats) (EFSA 2009c). An ARfD of 1.5 mg/kg/day was set (NOAEL of 15 mg/kg/day based on inhibited plasma and erythrocyte cholinesterase activity in humans). A second more conservative ARfD of 0.3 mg/kg bw/day was established based on an NOAEL of 25 mg/kg/day on the basis of the incidence of resorption observed in female rabbits in a teratogenic study (EFSA 2009c).

Risk assessment and characterisation

No residues were quantified in the analysed samples (n=1235). Residues were detected in filled pasta (such as ravioli) and tabbouleh. For all mixed dishes, estimated mean levels ranged from 0.0001 (LB) to 0.008 mg/kg (UB). For the upperbound, the highest estimated mean level was found in vegetables excluding potatoes (UB=0.012 mg/kg) (Table G27). Note that malaoxon, a metabolite included in the residue definition, was tested only in fruits and vegetables.

For the upperbound (UB), the adult population's mean exposure was estimated at 0.20 µg/kg bw/day (0.19-0.22) and that of children was estimated at 0.21 µg/kg bw/day (0.20-0.23). At the 95th percentile, exposure was estimated at 0.37 µg/kg bw/day in adults (0.33-0.43) and 0.42 µg/kg bw/day in children (0.36-0.52) (Tables G28 and G29). For the lowerbound (LB), mixed dishes were the only contributors to exposure. Irrespective of the assumption considered, the ADI was not exceeded in any subjects. For the upperbound (UB), the 95th exposure percentile was lower than 1.5% of the ADI in children and adults. The risk associated with malathion exposure is therefore not a public health issue.

Methidathion

Methidathion (950-37-8) has been used in agriculture for over 40 years as a non-systemic insecticide and acaricide on a large number of fruit and vegetable species and field crops (Tomlin 2006). Methidathion and its metabolites have low mobility in soil and are rapidly degraded (Tomlin 2006). In 2006, ORP considered this pesticide to be a priority due to a TMDI above 80% of the ADI in children and adults (Ménard, Héraud *et al.* 2008a). This substance was not included in Annex 1 of Directive 91/414/CEE after its re-evaluation (Decision 2004/129). In France, the last date on which it could be used was 31 December 2008.

Hazard characterisation

Toxicokinetic studies conducted in animals show that methidathion is metabolised and excreted primarily in the urine, without accumulating in the body (JMPR 1992). According to Regulation 1272/2008/EC, methidathion is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is very toxic if swallowed (T+, R28). In animals, short and long-term oral exposure inhibits erythrocyte and cerebral acetylcholinesterase activity and lesions of the liver (JMPR 1992). Reproductive toxicity studies in animals have shown that the substance causes a decrease in food intake and body weight, and an increase in mortality. However, ingestion of methidathion does not cause teratogenic effects or signs of delayed neurotoxicity (JMPR 1992). An ADI of 0.001 mg/kg bw/d was established based on liver effects and inhibition of erythrocyte and brain cholinesterase activity (NOAEL of 0.1 mg/kg bw/d after a 12-month study conducted in dogs) (JMPR 1992). An ARfD of 0.01 mg/kg bw/d was established from an NOAEL of 0.11 mg/kg bw/d, based on inhibition of erythrocyte cholinesterase activity in a study in eight male volunteers (JMPR 1997b).

Risk assessment and characterisation

No residues were detected in the samples analysed (n=1235). Under the upperbound assumption, the highest estimated mean concentrations were in sandwiches and snacks as well as soups and broths (UB=0.025 mg/kg) (Table G27). As a comparison, according to the results of the 2008 European coordinated surveillance programme, the substance was detected in 1.3% of samples and particularly in oranges (6.1% of analyses), mandarins (3.8%) and pears (0.3%) (EFSA 2010a). In France, the substance was detected in 3.5% of citrus fruits (oranges, grapefruits, mandarins and lemons).

Under the upperbound assumption (UB), mean exposure of the adult population was estimated at 0.24 µg/kg bw/d (0.23-0.26) and mean exposure of children was estimated at 0.28 µg/kg bw/d (0.26-0.29). At the 95th percentile, exposure was estimated at 0.43 µg/kg bw/d in adults (0.40-0.49) and 0.52 µg/kg bw/d in children (0.47-0.58) (Tables G28 and G29). Under the upperbound assumption, the ADI was exceeded in 0.3% of children only [0.02; 0.6] but was not exceeded in any subjects under the lowerbound assumption. Fruit only contributed 4% of theoretical intake (UB) with relatively low detection limits (0.005 mg/kg).

The risk associated with exposure to methidathion is not a public health issue. Considering the high coverage of the diet (90%), and the sufficiently low analytical limits for fruits, it might be advisable to conduct further, more sensitive, analyses only on the main theoretical contributors in children (non-alcoholic beverages, potatoes and potato products, and soups and broths).

Naled

Naled (300-76-5) is an insecticide and acaricide that has been used since the 1960s, both in agriculture and in vector control. In 2006, ORP identified this pesticide as a priority due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a). The substance was banned in Europe in 2005 (Directive 2005/788). At the national level, the last authorised plant protection uses concerned control of aphids in peach trees, cabbages, lettuces, peas and hops (ACTA 2005). However, it is still authorised for some uses as a biocide.

Hazard characterisation

Toxicokinetic studies conducted in animals show that naled is metabolised and excreted primarily in the urine, without accumulating in the body (European Commission: France 2004). According to Regulation 1272/2008/EC, naled is not classified as a carcinogenic, mutagenic or reprotoxic substance. In animals, short and long-term exposure to naled mainly inhibited acetylcholinesterase activity in plasma, erythrocytes and the brain. An ADI of 0.002 mg/kg bw/d was established based on the inhibition of cholinesterase activity (NOAEL of 0.2 mg/kg bw/d after a two-year study conducted in dogs) (European Commission: France 2004). An ARfD of 0.002 mg/kg bw/d was established on the basis of inhibition of erythrocyte cholinesterase activity (NOAEL of 0.2 mg/kg bw/d in a study in dogs). Only cases of skin and eye irritation have been reported following occupational exposure to naled (European Commission: France 2004).

Risk assessment and characterisation

The substance was only screened for in vegetables (excluding potatoes) and not in the other food groups, for analytical reasons. No residues were detected in the 211 samples analysed. Estimated mean levels (UB) were 0.02 mg/kg (Table G27).

Under the upperbound assumption (UB), mean exposure in the adult population through the consumption of vegetables was estimated at 0.02 µg/kg bw/d (0.02-0.03) and exposure in children at 0.03 µg/kg bw/d (0.02-0.03). At the 95th percentile, exposure was estimated at 0.06 µg/kg bw/d in adults (0.40-0.49) and at 0.08 µg/kg bw/d in children (0.06-0.12) (Tables G28 and G29). The ADI was not exceeded by any adults or children. Under the upperbound assumption (UB), the 95th percentile of exposure did not exceed 4% of the ADI for these two population groups. The risk associated with exposure to naled is therefore not a public health issue.

Oxydemeton-methyl

Oxydemeton-methyl (301-12-2), first marketed in 2002, is a systemic insecticide used on fruit, vegetable and field crops, especially for the control of aphids and other biting and sucking insects. Its main metabolites, demeton-S-methyl and demeton-S-methyl sulfone retain their insecticidal properties and are included in the residue definition (JMPR 1989; Regulation (EC) no 396/2005; Tomlin 2006). Oxydemeton-methyl has not been listed in Annex 1 (Decision 2007/392). In France, proprietary products containing this active substance were authorised until 20 November 2008 on beets, pears and apples (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals show that oxydemeton-methyl is moderately metabolised (approximately 50%) and eliminated mainly *via* the urine in 72h (EFSA 2006a). According to Regulation 1272/2008/EC, oxydemeton-methyl is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is toxic if swallowed (T, R25). An ADI of 0.0003 mg/kg bw/d (for the sum of oxydemeton-methyl, demeton-S-methyl, and demeton-S-methyl sulfone, expressed as oxydemeton-methyl) was determined from a two-year study in rats (NOAEL of 0.03 mg/kg bw/d obtained from the decrease in brain cholinesterase activity) (FAO/WHO 2002). An ARfD of 0.0015 mg/kg bw/d was determined (NOAEL of 0.15 mg/kg bw/d) based on effects on cholinesterase activity from a short-term (14 days) toxicity study in rats (EFSA 2006a).

Risk assessment and characterisation

No residues were detected among the 88 foods analysed (n=695 samples) (Table G3). Under the upperbound assumption (UB), the highest estimated mean levels were in biscuits, vegetables excluding potatoes and pulses, sandwiches and soups, due to the relatively high analytical limits (UB=0.01 mg/kg) (Table G27). As a comparison, in the 2008 monitoring programmes conducted by the European Union Member States and the European coordinated programme, this substance was only detected in one sample of potatoes (France) out of 30,918 samples analysed (EFSA 2010a).

The coverage rate by estimation of the theoretically contributing diet was 75% in adults and 63% in children (Table G2). The lack of an analytical method validated by the laboratories concerned for some matrices (fruit and some vegetables, rice or wheat flour-based products, and beverages) explains 70% to 76% of the contributing diet not covered in adults and children respectively. Under the upperbound assumption (UB), mean exposure in the adult population was estimated at 0.05 µg/kg bw/d (0.04-0.06) and that of children was estimated at 0.09 µg/kg bw/d (0.09-0.1). At the 95th percentile, exposure was estimated at 0.09 µg/kg bw/d in adults (0.08-0.11) and at 0.20 µg/kg bw/d in children (0.18-0.24) (Tables G28 and G29).

Under the upperbound assumption, the ADI was exceeded in 0.6% of children only [0.2; 0.9], but in no cases under the lowerbound assumption. The relatively low ADI value of oxydemeton-methyl and the relatively high analytical limits for complex matrices (mixed dishes) account for the ADI being exceeded in these cases (Table G1). The main theoretical contributors (UB) to children's exposure were milk (22%), potatoes and potato products (14%), soups (12%), mixed dishes (11%) and the ultra-fresh dairy product group (10%).

The risk associated with exposure to oxydemeton-methyl is therefore not a public health issue. However, considering its possible presence in fruits and vegetables from third countries, it might be advisable to conduct further analyses with lower analytical limits for a wider range of contributing foods including foods that may be contaminated (fruit and fruit juices in particular) to confirm the absence of chronic risk observed in the lowerbound hypothesis.

Phorate

Phorate (298-02-2) is a systemic insecticide and acaricide that was first placed on the market in 1954 for agricultural use (all crops). In soil and plants, sulfoxide and sulfone metabolites may be formed by oxidation (Tomlin 2006). The residue is defined as the sum of phorate and its sulfoxide and sulfone metabolites (EC Regulation no 396/2005). In 2006, the ORP identified phorate as a priority given a TMDI higher than the ADI in children and adults (Ménard, Héraud *et al.* 2008a). Like most organophosphates, this substance has not been listed in Annex 1 at European level (Regulation 2076/2002/EC), and it has not been used in France since 2003 (MAP 2002).

Hazard characterisation

Toxicokinetic studies conducted in animals show that phorate is extensively metabolised and rapidly eliminated, mainly in urine, without accumulating in tissues (FAO/WHO 2004). According to Regulation 1272/2008/EC, phorate is not classified as a carcinogenic, mutagenic, or reprotoxic substance. However, the substance is very toxic if swallowed (T+, R28). Phorate inhibits cholinesterase activity when administered in animals. An ADI of 0.0007 mg/kg bw/d was established based on this effect observed during a two-year study conducted in rats (NOAEL of 0.07 mg/kg bw/d) (FAO/WHO 2004). The NOAEL of a study of acute neurotoxicity in rats (0.25 mg/kg bw/d) led to an ARfD of 0.003 mg/kg bw/d being established (FAO/WHO 2004). In humans, several cases of occupational and non-occupational poisoning have been reported with cholinergic symptoms such as bradycardia and gastrointestinal or neurological effects: headache, dizziness, and fatigue (FAO/WHO 2004).

Risk assessment and characterisation

No residues were detected in the samples analysed (n=1022) (Table G3). For reasons of analytical capacity, the phorate sulfone and phorate sulfoxide metabolites were only screened for in foods of animal origin. Under the upperbound assumption (UB), the highest mean levels were estimated for a wide range of foods: wheat-based products (bread, breakfast cereals, pasta, croissant-like pastries, biscuits, pastries and cakes), rice, fruit, dried fruits, nuts and seeds, compotes and cooked fruit, and pulses (UB=0.1 mg/kg) (Table G27). As a comparison, in the 2008 monitoring programmes conducted by the EU Member States, this substance was detected in five fruit and vegetable samples out of 44,290 analyses (EFSA 2010a). In France, phorate was detected in only one milk sample out of 2601 analyses of foods of animal origin.

Under the upperbound assumption (UB), mean exposure in the adult population was estimated at 0.73 µg/kg bw/d (0.69-0.79) and that of children was estimated at 1.04 µg/kg bw/d (1.01-1.08). In the 95th percentile, exposure was estimated at 1.2 µg/kg bw/d in adults (1-1.3) and at 2 µg/kg bw/d in children (1.8-2.2). The ADI was exceeded in 50% of adults [47; 52] and 72% of children [70; 74] under the upperbound assumption, but it was not exceeded in any subjects under the lowerbound assumption. The exceeded ADI under the upperbound assumption was due to a relatively low ADI, the protective residue definition, and the high LOD in most of the food groups analysed (Tables G1 and G2).

The risk associated with exposure to phorate is therefore not a public health issue. However, it might be advisable to improve the existing analytical methods (lowering the LOD) for both fruit and vegetables that may contain residues, and for bread, which is a major theoretical contributor with an upperbound intake (UB) of 22% and 18% in adults and children respectively, and high LODs (0.1 mg/kg) (Tables G28 and G29). It is also recommended to include in the analyses the relevant metabolites, phorate sulfone and phorate sulfoxide, which were not screened for in foods of plant origin.

Phosalone

Phosalone (2310-17-0) is a non-systemic insecticide and acaricide used since the 1960s on a wide variety of fruit and vegetable crops, in vineyards and on field crops (Tomlin 2006). As it preserves some insects that are beneficial for crops, it has been used in integrated pest management in orchards (Firlej and Vanoosthuyse 2001). Its other advantages are its very low environmental persistence (half-life of 1 to 4 days) and its low mobility in the soil (Tomlin 2006). However, this substance has not been listed in Annex 1 because of missing scientific data for its evaluation, particularly on consumer exposure and ecotoxicology (Decision 2006/1010; European Commission 2006b). In France, the last date on which it could be used was June 2008 (MAP 2009b). In 2006, the ORP considered phosalone to be a priority due to a TMDI higher than the ADI in children (Ménard, Héraud *et al*. 2008a).

Hazard characterisation

Toxicokinetic studies conducted in animals have shown that phosalone is highly absorbed orally (90%), largely metabolised and excreted in the urine (90% in 24-48h) (EFSA 2006b). According to Regulation 1272/2008/EC, this substance is not classified as a carcinogenic, mutagenic, or reprotoxic substance. However, the substance is toxic if swallowed (T, R25). The main effect observed in short- and long-term toxicity studies is an inhibition of cholinesterase (EFSA 2006b; JMPR 1997c). An ADI of 0.01 mg/kg bw/d was established on the basis of these effects (NOAEL of 0.9 mg/kg bw/d obtained in a one-year study in dogs (EFSA 2006b). An ARfD of 0.1 mg/kg bw/d was established from a teratogenicity study in rabbits (maternal and foetal NOAEL of 10 mg/kg/d) (EFSA 2006b).

Risk assessment and characterisation

For 99.6% of the samples analysed (n=1235), no residues were detected. Five samples of apples and pears had quantified levels (0.01 to 0.04 mg/kg). A sample of merguez sausage had unquantified levels. The estimated mean levels in fruit varied from 0.0006 (LB) to 0.01 mg/kg (UB). Under the upperbound assumption (UB), the highest estimated mean levels were in vegetables (excluding potatoes) (0.02 mg/kg) (Table G27).

Under the upperbound assumption (UB), mean exposure in adults was estimated at 0.22 µg/kg bw/d (0.21-0.25), and that of children was estimated at 0.23 µg/kg bw/d (0.21-0.25). At the 95th percentile, exposure was estimated at 0.4 µg/kg bw/d in adults (0.37-0.45) and at 0.46 µg/kg bw/d in children (0.42-0.56). Fruit was one of the main contributors to exposure in both adults and children (99% under the lowerbound assumption and 10% under the upperbound assumption) (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. In the upperbound hypothesis, the 95th percentile of exposure was 4% and 4.6% of ADI in adults and children respectively. The risk associated with exposure to phosalone is therefore not a public health issue.

Phosmet

Phosmet (211-987-4) is a non-systemic insecticide and acaricide used since the 1960s on many fruit and vegetable crops, in vineyards and on field crops (Tomlin 2006). Like phosalone, it is generally compatible with integrated pest management, particularly in orchards (Firlej and Vanoosthuyse 2001).

Its very low persistence in plants and the soil is an additional advantage (Tomlin 2006). In 2006, the ORP considered phosmet to be a priority due to a TMDI higher than the ADI in children (Ménard, Héraud *et al.* 2008a). This substance has been included in Annex 1 of Directive 91/414/EEC (Decision 2007/25). Presently, in France, four commercial products are authorised on a limited number of crops: chestnuts, figs, walnuts, apples, pears and potatoes (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals show that after absorption phosmet does not accumulate in tissues and is excreted in the urine (EFSA 2006c). According to Regulation 1272/2008/EC, phosmet is not classified as a carcinogenic, mutagenic, or reprotoxic substance. Neither does phosmet cause delayed neurotoxicity (EFSA 2006c; FAO/WHO 2003). Like all organophosphates, the main toxic effect of phosmet observed in animals is inhibited erythrocyte and brain cholinesterase. An ADI of 0.003 mg/kg bw/d was established on the basis of these effects (LOAEL of 1 mg/kg bw/d after a two-year study conducted in mice) (EFSA 2006c). An ARfD was established at 0.045 mg/kg bw/d, based on an NOAEL of 4.5 mg/kg bw/d after a neurotoxicity study in rats (EFSA 2006c; FAO/WHO 2003).

Risk assessment and characterisation

For 99.3% of the samples analysed (n=1235), no residues were detected. Seven samples (apples, pears and peaches) showed quantified levels of residues (0.01 to 0.05 mg/kg) and two samples of apples contained traces of residues. The estimated mean levels in fruit varied from 0.001 (LB) to 0.01 mg/kg (UB). Under the upperbound assumption (UB), the highest estimated mean levels concerned fruit, chocolate and beverages (0.01 mg/kg) (Table G27).

Mean exposure in the adult population was estimated to be between 0.004 µg/kg bw/d (0-0.01) (LB) and 0.21 µg/kg bw/d (0.2-0.23) (UB). Mean exposure in children was estimated to be between 0.003 µg/kg bw/d (0-0.02) (LB) and 0.23 µg/kg bw/d (0.22-0.25) (UB). At the 95th percentile, exposure was estimated to be between 0.02 and 0.37 µg/kg bw/d in adults (0-0.41) and between 0.015 and 0.45 µg/kg bw/d in children (0-0.52). In both adults and children, fruits were the main contributors to exposure (100% under the lowerbound assumption and 10% under the upperbound assumption) (Tables G28 and G29). Irrespective of the assumption considered, the ADI was not exceeded in any adults or children. With the upperbound hypothesis, the 95th percentile of exposure was 12% of the ADI in adults and 15% in children. The risk associated with exposure to phosmet is therefore not a public health issue.

Pirimiphos-methyl

Pirimiphos-methyl (29232-93-7) is a broad-spectrum, penetrating insecticide and acaricide, used especially to treat harvested grain and for the disinfestation of storage premises, but also on various fruit and vegetable crops in open fields or under cover, as well as field crops (Tomlin 2006). In 2006, the ORP considered this substance to be a priority due to a TMDI higher than 80% of the ADI in children and adults (Ménard, Héraud *et al*. 2008a). It is listed in Annex 1 of Directive 91/414/EEC (Directive 2007/52), and is still used in France as an insecticide for grains before storage (cereals, maize, etc.) and for disinfestation of premises, including livestock housing (E-phy 2010).

Hazard characterisation

Toxicokinetic studies conducted in animals show that pirimiphos-methyl is absorbed orally (over 80%), is extensively metabolised, and rapidly excreted in the urine. Although this substance is lipid-soluble, it accumulates very little in the body (EFSA 2005; JMPR 2002). According to Regulation 1272/2008/EC, the substance is not classified as a carcinogenic, mutagenic, or reprotoxic substance. The only biochemical and toxic effect observed in animals during short and long-term toxicity studies, was an inhibition of cholinesterase. An ADI of 0.004 mg/kg bw/d was established based on these effects (NOAEL of 0.4 mg/kg bw/d after a two-month study conducted in rats) (EFSA 2005). An ARfD of 0.15 mg/kg bw/d was set based on an NOAEL of 15 mg/kg bw/d after a neurotoxicity study conducted in rats (EFSA 2005).

Risk assessment and characterisation

For 92.8% of the analysed samples (n=1235), no residues were detected. Sixty-five samples (particularly foods made with wheat flour and mixed dishes) had quantified residue levels (from 0.005 to 0.085 mg/kg). The highest estimated mean levels were found in bread (LB=0.043 mg/kg, UB=0.044 mg/kg), croissant-like pastries (LB=0.036 mg/kg, UB=0.040 mg/kg), biscuits and bars (LB=0.018 mg/kg, UB=0.028 mg/kg) and pasta (LB=0.014 mg/kg, UB=0.024 mg/kg) (Table G27).

Mean exposure in the adult population was estimated to be between 0.07 µg/kg bw/day (0.06-0.08) (LB) and 0.21 µg/kg bw/day (0.2-0.22) (UB). Mean exposure in the child population was estimated to be between 0.12 µg/kg bw/day (0.1-0.13) (LB) and 0.3 µg/kg bw/day (0.27-0.32) (UB). At the 95th percentile, exposure was estimated to be between 0.14 and 0.34 µg/kg bw/day in adults (0.11-0.37) and between 0.24 and 0.55 µg/kg bw/day in children (0.21-0.6). In adults and children, wheat-based products were the main contributors to exposure, mainly with bread (respectively 56% and 35% for the lowerbound; 19% and 14% for the upperbound) and pasta (respectively 8% and 11% for the lowerbound; 6% and 9% for the upperbound) (Tables G28 and G29). The ADI was not exceeded irrespective of the assumption. For the upperbound, the 95th exposure percentile was 9% and 14% of the ADI respectively in adults and children. The risk associated with pirimiphos-methyl exposure is therefore not a public health issue.

Quinalphos

A penetrating and systemic insecticide and acaricide, quinalphos (13593-03-8) was described for the first time in 1969. Like most organophosphorus compounds, it has been used on all crops in both temperate and tropical regions (rice, citrus fruits, coffee, cocoa and tea). The substance was identified as a priority in 2006 by the ORP due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a). It has not been used in the European Community since 2003 (Regulation 2076/2002/EC).

Hazard characterisation

No toxicokinetic studies in animals are available. At the European level, quinalphos is a category 1 endocrine disruptor (evidence of endocrine disruption activity in at least one living species) (DHI 2007). According to Regulation 1272/2008/EC, quinalphos is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is toxic if swallowed (T, R25). In short- and long-term toxicity studies in animals, the main observed effect has been inhibited plasma, erythrocyte and brain cholinesterase activity (SDS Biotech 1991). The US EPA reported an RfD of 0.0005 mg/kg bw/day based on a two-year study undertaken in dogs (no observed effect level of 0.05 mg/kg bw/day based on decreased cholinesterase activity) (US EPA 2010).

Risk assessment and characterisation

No residues were detected in the analysed samples (n=1223). For the upperbound (UB), the highest estimated mean level was found in potatoes and potato products, sandwiches and soups and broths (0.02 mg/kg) (Table G27). As a comparison, in the framework of the European Union Member States' 2008 surveillance programmes, the substance was detected in 15 fruit and vegetable samples out of 46,013 analysed samples (EFSA 2010a). In France, in 2007, the substance was detected in only one pomelo sample from China, but was not detected in foodstuffs of animal origin or in tap water (n=11,534).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.27 µg/kg bw/day (0.26-0.29) and that of children was estimated at 0.32 µg/kg bw/day (0.31-0.33). At the 95th percentile, exposure was estimated at 0.45 µg/kg bw/day in adults (0.43-0.50) and 0.61 µg/kg bw/day in children (0.52-0.67) (Tables G28 and G29). For the upperbound, the ADI was exceeded in 3% of adults [2.2; 3.8] and 10.7% of children [9.1; 12.3], but it was not exceeded in any subjects for the lowerbound. The relatively low ADI for quinalphos and relatively high analytical limits for certain food groups explain why the ADI was exceeded for the upperbound.

The risk associated with quinalphos exposure is therefore not a public health issue. However, in light of recent use of this insecticide in some third countries and analytical uncertainties, it could be recommended to undertake new, more sensitive analyses (particularly for the main theoretical contributors for the upperbound such as vegetables and beverages with respectively 10% and 15% of intake) in order to refine the estimation of consumer exposure and confirm that there is no observed chronic risk for this substance for the lowerbound.

3.2.1.10. Pyrethroids

Deltamethrin

Deltamethrin (52918-63-5) is a broad-spectrum insecticide and acaricide that has been used in agriculture and for veterinary and domestic applications since 1978 (EFSA 2009d; Tomlin 2006). This substance belongs to the family of synthetic pyrethroids. A lipophilic substance with low water solubility, it is rapidly absorbed by the digestive and respiratory systems and the skin (European Commission 2002a). It was considered a priority due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a). Included in Annex 1 of Directive 91/414/EEC in 2003, it is one of the most commonly used insecticides in France with 58 crops for which one or more agricultural uses are authorised (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that deltamethrin is rapidly eliminated in the urine and faeces (JMPR 2000a). According to Regulation 1272/2008/EC, deltamethrin is not classified as a carcinogenic, mutagenic or reprotoxic substance. Ingestion of deltamethrin has short- and medium-term effects on the nervous system such as salivation, tremors, hypersensitivity and modified locomotor activity. An ADI and ARfD of 0.01 mg/kg bw/day were established based on these effects (with an NOAEL of 1 mg/kg bw/day in dogs) (EFSA 2009d; European Commission 2002a). In humans, few data are available, but the reported effects have been mainly neurological (paraesthesia) and observed in the skin and mucous membranes (particularly skin and eye irritation) (INRS 2007a).

Risk assessment and characterisation

No residues were detected in the analysed samples (n=1235). For the upperbound (UB), the highest estimated mean levels were found in potatoes and potato products (0.04 mg/kg) (Table G9).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.28 µg/kg bw/day (0.26-0.30) and that of children was estimated at 0.35 µg/kg bw/day (0.32-0.40). At the 95th percentile, exposure was estimated at 0.48 µg/kg bw/day in adults (0.45-0.52) and 0.68 µg/kg bw/day in children (0.56-0.79). Vegetables were the main contributors to exposure in both adults and children (12%) (Tables G10 and G11). The ADI was not exceeded by any adults or children. The 95th exposure percentile did not exceed 7% of the ADI for both populations. The risk associated with deltamethrin exposure is therefore not a public health issue.

3.2.1.11. Quinolines

Ethoxyquin

Ethoxyquin (91-53-2) belongs to the family of quinolines that includes medicines, fungicides, biocides and colouring agents. It is an antioxidant used in agriculture as a fungicide and growth regulator (Tomlin 2006). It is also used to preserve animal feed and in spices to prevent colour loss (FAO/WHO 2006). The main metabolites found in plants according to the residue definition are dimethylethoxyquin (DMEQ), methylethoxyquin (MEQ), dehydrodemethylethoxyquin (DHMEQ) and dihydroethoxyquin (DHEQ). It was considered a priority due to a TMDI greater than 80% of the ADI in children (Ménard, Héraud *et al.* 2008a). Ethoxyquin was not included in Annex 1 of Directive 91/414/EEC (Decision 2008/941 2008). In France, ethoxyquin was authorised until 31 December 2010 for preventive treatment against scald in harvested pears, quinces and Asian (nashi) pears. Use on apples was withdrawn in March 2008 (E-phy 2010).

Hazard characterisation

Toxicokinetic studies in animals show that ethoxyquin is easily metabolised and rapidly eliminated (90% within 24 hrs), mainly in the urine (JMPR 1998). According to Regulation 1272/2008/EC, ethoxyquin is not classified as a carcinogenic, mutagenic or reprotoxic substance (FAO/WHO 2006). An ADI of 0.005 mg/kg bw/day was determined based on a multi-generational study undertaken in dogs (LOAEL=2.5 mg/kg bw/day based on dehydration, excessive lacrimation and liver pigment) (JMPR 1998). A single administration of ethoxyquin and its metabolites causes liver effects and vomiting (NOAEL of 50 mg/kg bw/day in dogs). An ARfD of 0.5 mg/kg bw/day was established based on these effects (FAO/WHO 2006). These health-based guidance values were defined for the active substance and its metabolites (FAO/WHO 2008). In humans, numerous cases of reversible dermatoses and allergies have been reported among workers in contact with ethoxyquin (JMPR 1998; US EPA 2004).

Risk assessment and characterisation

For 99.2% of the analysed samples (n=391), no residues were detected. Two samples of fresh pears had quantified residue levels (from 0.03 to 0.06 mg/kg) and one sample of fruit compote contained non-quantified residues (traces). The highest estimated mean levels were found in fruits (LB=0.047 mg/kg) (Table G9). Note the low yields that were obtained (less than 35%) for ethoxyquin, which is why results were excluded for the following matrices (mean values): eggs (10%), certain dairy products such as cheese and butter (12 to 32%), meat (10%), seafood products (14%) and sweetened products (20%). The only results that were included were those of certain fruits (greater than 90%), liquid milk (40%) and fruit compotes (96%).

Mean exposure in the adult population was estimated to be between 0.01 µg/kg bw/day (0.003-0.014) (LB) and 0.08 µg/kg bw/day (0.07-0.10) (UB). Mean exposure in the child population was estimated to be between 0.01 µg/kg bw/day (0.002-0.012) (LB) and 0.26 µg/kg bw/day (0.23-0.29) (UB). At the 95th percentile, exposure was estimated to be between 0.04 and 0.23 µg/kg bw/day in adults (0.02-0.27) and between 0.06 and 0.70 µg/kg bw/day in children (0.004-1). In both adults and children, fruits were the main contributors to exposure (respectively 98% and 91% for the lowerbound and 9% and 5% for the upperbound) (Tables G10 and G11). The ADI was not exceeded irrespective of the assumption. For the upperbound, the 95th exposure percentile was 5% and 14% of the ADI respectively in adults and children. The risk associated with ethoxyquin exposure is therefore not a public health issue.

3.2.1.12. Rotenoids

Rotenone

Rotenone (83-79-4) is the most active insecticide substance in the family of rotenoids. This flavonoid was isolated for the first time in 1895. Rotenoids were used commercially to a great extent until the 1940s (Philogène, Regnault-Roger *et al.* 2002). Despite their decline with the development of synthetic active substances, rotenone has continued to be used, particularly in organic agriculture. The substance was considered a priority due to a TMDI greater than 80% of the ADI in adults and children (Ménard, Héraud *et al.* 2008a). The substance was not included in Annex 1 (Decision 2008/317). In France, 18 uses are authorised until 31 December 2011 on eight fruit and vegetable crops and in vineyards (E-phy 2010).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that rotenone is metabolised in the liver and excreted mainly in the faeces (IPCS 1992). According to Regulation 1272/2008/EC, rotenone is not classified as a carcinogenic, mutagenic or reprotoxic substance. However, the substance is toxic if swallowed (T, R25). The results of studies undertaken in rats and mice have proven inconclusive as to the carcinogenic activity of rotenone, although it is suspected at high doses (NTP 1988). Rotenone could be genotoxic (Marrs and Ballantyne 2004b). Additional in vivo studies are necessary to assess the substance's mutagenic potential (France/Commission des toxiques 2004). An ADI of 0.001 mg/kg bw/day was established based on a two-year chronic study undertaken in rats (no-effect level of 1.7 mg/kg bw/day) (France/Commission des toxiques 2004). Rotenone also has a harmful effect on the entire reproductive cycle. An ARfD of 0.125 µg/kg bw/day was proposed based on a no-effect level for ovulation of 0.125 mg/kg bw/day. Clinical data in humans mainly report a sensation of numbness with oral exposure (France/Commission des toxiques 2004).

Risk assessment and characterisation

No residues were detected in 41 foods of animal origin that were analysed (n=348 samples). The substance was not tested in foodstuffs of plant origin (method not validated by the participating laboratories). For the upperbound (UB), the estimated mean residue level was equal to 0.002 mg/kg for all of the food groups of animal origin (Table G9). For information, in the framework of the European Union Member States' 2008 surveillance programmes, the substance was detected in six fruit and vegetable samples out of 9445 analysed samples (EFSA 2010a). In France, no residues were detected (LOD=0.01 mg/kg) in the framework of the 2006 surveillance plan of the Directorate General for Competition Policy, Consumer Affairs and Fraud Control (DGCCRF) (1,100 unprocessed fruit and vegetable samples analysed).

The coverage rate of the theoretically contributing diet from the estimation was 32% in adults and 43% in children (Table G2). This low coverage level was due firstly to the fact that the substance was tested only in foodstuffs of animal origin, for analytical reasons, and secondly to the exclusion of the analysis results for cheese, butter and seafood products (the recovery rates were too low).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.008 µg/kg bw/day (0.007-0.009) and that of children was estimated at 0.02 µg/kg bw/day (0.019-0.022). At the 95th percentile, exposure was estimated at 0.016 µg/kg bw/day in adults (0.014-0.019) and 0.05 µg/kg bw/day in children (0.04-0.06) (Tables G10 and G11). The ADI was not exceeded by any adults or children. The 95th exposure percentile was less than 2% of the ADI in adults and 5% in children. The risk associated with rotenone exposure is therefore not a public health issue.

3.2.2. Persistent organic pollutants under the Stockholm Convention

Aldrin/Dieldrin

Aldrin (309-00-2) and dieldrin (60-57-1) are broad-spectrum insecticides that act by contact and inhalation. Aldrin is rapidly converted into dieldrin in most environments and in living organisms (FAO/WHO 1995). Dieldrin has high bioaccumulation potential in the soil (INERIS 2008b). These insecticides were used intensively in agriculture starting in the 1950s, until their use was withdrawn in numerous countries. Dieldrin was also used to control xylophagous insects and termites until it was banned in France in 1992 (Decree 92/1074; INRS 2007b). These two insecticides were considered priorities in this study as POPs under the Stockholm Convention (UNEP 2001) that are banned in the European Community (Regulation 850/2004/EC), and due to a TMDI greater than 80% of the PTDI (Ménard, Héraud *et al.* 2008a).

Hazard characterisation

Aldrin and dieldrin, due to their structural similarity, have comparable toxicological profiles (Jager 1970). The residue is defined as the sum of dieldrin and aldrin, expressed as dieldrin (Regulation (EC) no 396/2005). In humans, aldrin is rapidly metabolised into dieldrin in the liver and excreted primarily in the faeces (>90%) and accumulates in the fat (INERIS 2008a; INERIS 2008b; Jager 1970). According to Regulation 1272/2008, dieldrin is not classified as mutagenic or reprotoxic but is classified as a carcinogenic substance, category 3 (R40). According to IARC, the substance is not classifiable as to its carcinogenicity to humans (category 3) (IARC 2010; INERIS 2008b; WHO/IPCS 1989a). Studies undertaken in mice have highlighted increased incidence of the onset of benign and malignant liver tumours (WHO/IPCS 1989a). However, there are no definitive conclusions as to the carcinogenic effect of dieldrin in humans. In animals, short- and medium-term exposure to dieldrin mainly causes neurological failure (tremors, convulsions) and hepatomegaly. A PTDI of 0.0001 mg/kg bw/day was established on the basis of observed hepatic effects (NOAEL of 0.025 mg/kg bw/day based on a two-year study in rats) (FAO/WHO 1995). In humans, accidental exposure to dieldrin causes neurological and hepatic effects (WHO/IPCS 1989a).

Risk assessment and characterisation

No residues were detected in the analysed samples (n=1235) (Table G3). For the upperbound (UB), with the exception of water, estimated mean levels ranged from 0.003 mg/kg (dairy products, meats, poultry, delicatessen meats, offal and seafood products) to 0.015 mg/kg (chocolate and beverages) (Table G30). These results were due to higher limits of detection (aldrin and dieldrin) for chocolate and beverages. As a comparison, in the framework of the Member States' 2008 surveillance programmes, the substances were detected in 29 fruit and vegetables samples out of 39,493 analysed samples (EFSA 2010a). In France, they were detected in 2008 in seafood and freshwater products (14% of analyses), milk and dairy products (4%) and poultry meat (2%). One of the factors that explains the lack of detection in foods as consumed is very likely a dilution of potential residual concentrations related to the nature of the TDS sample (composite), at levels lower than the analytical limits, which were relatively satisfactory in the animal matrices (LOD ranging from 1 to 2 µg/kg fresh weight). Moreover, these contaminants were not detected in drinking water by the Directorate General for Health in France between 2007 and 2009, in nearly 70,000 analyses.

For the upperbound (UB), the adult population's mean exposure was estimated at 0.28 µg/kg bw/day (0.27-0.3) and that of children was estimated at 0.3 µg/kg bw/day (0.28-0.31). At the 95th percentile, exposure was estimated at 0.52 µg/kg bw/day in adults (0.46-0.59) and 0.59 µg/kg bw/day in children (0.51-0.7) (Tables G31 and G32). For the upperbound, the PTDI was exceeded by 97.7% [97.1; 98.4] and 96.9% [96; 97.8] respectively in adults and children, but it was not exceeded in any subjects for the lowerbound (Table G2). A relatively low PTDI value (0.1 µg/kg bw/day), a definition of residue including aldrin and relatively high analytical limits for certain food groups explain why the PTDI was exceeded for the upperbound. Thus, for the upperbound, foodstuffs of animal origin contributed very little to total exposure (less than 1.2% with the exception of milk for children with 5.2% of intake). Consequently, it does not appear relevant to lower the limits of detection for animal matrices. However, beverages (coffee and hot drinks for adults and non-alcoholic beverages for children) appeared to be theoretical main contributors (UB), due solely to high analytical limits. Consequently, in light of analytical uncertainties, it is recommended, in the framework of the TDS programme, to undertake new analyses in beverages using more sensitive analytical methods. Chronic risk associated with dieldrin exposure cannot be ruled out with certainty without these additional analyses.

Chlordane

Technical chlordane (57-74-9) is a mixture of several organochlorine compounds. It is composed of 60-75% of trans-chlordane (beta or gamma chlordane) and cis-chlordane (alpha chlordane). The residue is defined as the sum of these isomers (Regulation (EC) no. 396/2005). Chlordane is a broad-spectrum contact insecticide used since the 1950s essentially for non-agricultural applications (termiticide) but also on a number of crops, including maize and potatoes, as well for veterinary use as an antiparasitic agent (WHO/IPCS 1988). The substance has high bioaccumulation potential in soil (WHO/IPCS 1984b) and was considered a priority in this study as a POP listed by the Stockholm Convention (UNEP 2001) and banned in the European Community (Regulation (EC) No 850/2004). However, the Convention authorises some production and certain specific non-agricultural uses as a termiticide in dwellings (UNEP 2009).

Hazard characterisation

Toxicokinetic studies conducted in animals show that chlordane is widely distributed in the body and metabolised primarily to oxychlordane. Highly lipophilic, chlordane and oxychlordane accumulate in fat (WHO/IPCS 1984b) and are eliminated primarily in the faeces (>80%) (INERIS, 2008). According to Regulation (EC) 1272/2008, chlordane is not classified as a mutagenic or reprotoxic substance. It is classified as a category 3 carcinogen (R40). Carcinogenesis studies conducted in animals have demonstrated an increased incidence of liver tumours (FAO/WHO 1987). There are no definitive conclusions as to the carcinogenic effect of chlordane on humans. The IARC has classified it as a category 2B substance (potentially carcinogenic to humans) (IARC 2001a). Short- and long-term oral exposure to chlordane in animals induces serious damage to the central nervous system (seizures) and to the liver (hypertrophy associated with histological impairment and enzymatic system disruption) (WHO/IPCS 1984b). Based on these effects observed in the liver (NOAEL of 0.05 mg/kg bw/d from a two year study in rats), a PTDI of 0.0005 mg/kg bw/d was determined in 1986 (the sum of cis-chlordane, trans-chlordane and oxychlordane) (FAO/WHO 1995). No ARfD is available in the literature. In humans, accidental exposure to high concentrations induces severe neurological and respiratory problems (WHO/IPCS 1984b).

Risk assessment and characterisation

No residues were detected in the samples analysed (n=920) (Table G3). Under the upperbound assumption, the highest estimated mean concentrations concerned vegetables excluding potatoes (UB=0.017 mg/kg), as well as milk, the ultra-fresh dairy group, fishery products, pizzas, quiches and savoury pastries (UB=0.007 mg/kg) (Table G30).

Under the upperbound (UB) assumption, estimated mean exposure of the adult population was 0.08 µg/kg bw/d (0.07-0.09) and that of children was 0.15 µg/kg bw/d (0.14-0.16). At the 95th percentile, estimated exposure was 0.14 µg/kg bw/d in adults (0.13-0.16) and 0.31 µg/kg bw/d in children (0.28-0.35) (Tables G31 and G32). The PTDI was not exceeded in any subjects. The 95th percentile of exposure was 28% and 61% of the PTDI respectively in adults and children. Therefore, the risk associated with chlordane exposure is not a public health issue.

DDT

Technical DDT (dichlorodiphenyltrichloroethane) (50-29-3) is a mixture of isomers, mainly p,p'-DDT (65-80%) then o,p'-DDT, p,p'-DDE (dichlorodiphenyldichloroethylene) and p,p'-DDD or TDE (dichlorodiphenyldichloroethane) (WHO/IPCS 1989b). The residue is defined as the sum of these isomers (Regulation (EC) no. 396/2005). Since the Second World War, DDT has been used in vector control (malaria and other insect-borne diseases). From 1955, the WHO conducted a global programme to combat malaria primarily based on the use of DDT. In agriculture, DDT was also used on numerous cultivated species but was generally replaced by less persistent insecticides (French Ministry of Ecology 2010; Tomlin 2006). Its specific impact on bird populations led to its prohibition or stricter regulation of its use by many countries in the 1970s. The substance was listed in Annex B (use restriction) of the Stockholm Convention, which allows its production and use only for vector control. Agricultural uses have now all been discontinued at the international level (UNEP 2001).

Hazard characterisation

Toxicokinetic studies conducted in animals show that DDT and its isomers are widely distributed in the body and metabolised to DDD and DDE. DDT and its metabolites are eliminated mainly in faeces and accumulate in fatty tissues (WHO/IPCS 1979). According to Regulation (EC) 1272/2008, DDT is not classified as a mutagenic or reprotoxic substance. However, the substance is classified as a category 3 carcinogen (R40). Although animal studies demonstrate an increased incidence in liver tumours, there are no definitive conclusions as to the carcinogenic effect of DDT in humans (FAO/WHO 2001). According to the IARC the substance is classified as category 2B (potentially carcinogenic to humans) (IARC 1991a). Short- and long-term exposure to DDT in animals induces damage to the central nervous system (hyperarousal, tremors, seizures) and liver (histopathological impairment and disruption of enzymatic systems). Based on the effects observed in foetal development (NOAEL of 1 mg/kg bw/d from a study in rats), a PTDI of 0.01 mg/kg bw/d was determined by the JMPR for DDT (the sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-DDD) (FAO/WHO 2001). No ARfD is available in the literature. The epidemiological data in humans show no relationship between observed health effects and occupational exposure to DDT and its isomers (FAO/WHO 2001).

Risk assessment and characterisation

No residues were detected in the samples analysed (n=1022) (Table G3). Under the upperbound assumption, the highest estimated mean concentrations concerned vegetables excluding potatoes (UB=0.051 mg/kg) for foodstuffs of plant origin, as well as milk, the ultra-fresh dairy group, eggs and egg products and fishery products (UB=0.007 mg/kg) for foodstuffs of animal origin (Table G30). The lower LODs for animal foodstuffs account for these results.

Under the upperbound (UB) assumption, estimated mean exposure of the adult population was 0.29 µg/kg bw/d (0.27-0.31) and that of children was 0.34 µg/kg bw/d (0.32-0.37). At the 95th percentile, estimated exposure was 0.51 µg/kg bw/d in adults (0.47-0.56) and 0.7 µg/kg bw/d in children (0.63-0.84) (Tables G31 and G32). The PTDI was not exceeded in any subjects. The 95th percentile of exposure was 5% and 7% of the PTDI respectively in adults and children. Therefore, the risk associated with exposure to DDT is not a public health issue.

Endrin

Endrin (72-20-8) is a stereoisomer of dieldrin. An early broad-spectrum rodenticide and insecticide acting by contact and ingestion, it had been used intensively from 1951 until it was prohibited in many countries (1992 in France) particularly because of its toxicity to bird populations (INERIS 2007; UNEP 2006). Very persistent in soil (degradation time (DT) 50=12 years) (Footprint-PPDB 2010), the substance was considered a priority in this study as a POP listed by the Stockholm Convention (UNEP 2001) and banned in Europe (Regulation (EC) 850/2004), and in light of a TMDI of above 80% of the ADI in children (Ménard, Héraud *et al.* 2008a).

Hazard characterisation

Toxicokinetic studies conducted in animals show that endrin is metabolised and eliminated mainly in faeces (>90%) (Jager 1970). Unlike other POPs, it accumulates only in small amounts in fatty tissues (FAO/WHO 1971). Under Regulation (EC) 1272/2008, endrin is not classified as a mutagenic, carcinogenic or reprotoxic substance. However, this substance is highly toxic if ingested (T+, R28). In the short, medium and long terms, oral administration of endrin in animals induces central nervous system effects (seizures) and disruption of hepatic enzyme systems (WHO/IPCS 1992). A PTDI of 0.0002 mg/kg bw/d was established from these effects (NOAEL of 0.025 mg/kg bw/d from a two-year study conducted in dogs) (FAO/WHO 1995). No ARfD is available in the literature. In humans, endrin is also highly toxic and the observed effects are primarily in the central nervous system (WHO/IPCS 1992).

Risk assessment and characterisation

No residues were detected in the samples analysed (n=1022) (Table G3). Under the upperbound assumption, the highest estimated mean concentrations were those of vegetables excluding potatoes (UB=0.017 mg/kg). The estimated mean concentrations for foodstuffs of animal origin (UB=0.001 mg/kg) were lower than those of other plant foodstuffs (UB=0.005 mg/kg) because of lower limits of detection (Table G30). As a comparison, this persistent organic pollutant was detected within the framework of the 2008 monitoring programme of the DGAL in two samples of fishery and freshwater products (out of 216 analyses performed).

Under the upperbound (UB) assumption, estimated mean exposure of the adult population was 0.11 µg/kg bw/d (0.10-0.12) and that of children was 0.12 µg/kg bw/d (0.12-0.13). At the 95th percentile, estimated exposure was 0.2 µg/kg bw/d in adults (0.18-0.22) and 0.25 µg/kg bw/d in children (0.23-0.3) (Tables G31 and G32). Under the upperbound assumption, the PTDI was exceeded in 5.5% of adults [4.5; 6.5] and 11% of children [9.3; 12.5], but was not exceeded under the lowerbound assumption. The relatively low PTDI value and relatively high analytical limits for some food groups mainly account for the values being exceeded under the upperbound assumption.

In spite of the detection in fishery products as part of the DGAL surveillance plans, the foods of this group contribute under the upperbound assumption to no more than 0.3% of the intake for TDS 2. Consequently, it seems inappropriate to recommend lowering the limits of detection for this group, for which the LODs are satisfactory (1 µg/kg fresh weight) with acceptable recovery rates (between 90 and 120%). Within the framework of the TDS programme it would be advisable to lower the analytical limits by a factor of 100 for the highest theoretical contributors: vegetables (22% and 24% of intakes respectively in adults and children) and beverages (15% for coffee in adults and 25% for non-alcoholic beverages for children). A chronic risk associated with endrin exposure cannot be excluded with certainty without modifying these additional analytical factors.

Heptachlor

Heptachlor (76-44-8) is a non-systemic insecticide acting by contact and ingestion. It was used intensively between 1953 and 1974, for domestic uses (to control termites and other insects), to combat malaria, as well as for other agricultural uses, and was the source of significant and persistent environmental contamination. Its use for these agricultural applications was discontinued in the 1980s in most of the northern countries (1992 in France) given its high bioconcentration potential in soils, biomagnification in the food chain and high toxicity for humans (ATSDR 2007; WHO/IPCS 2006). The residue is defined as the sum of heptachlor and heptachlor epoxide, expressed as heptachlor (Regulation (EC) no. 396/2005). Heptachlor was considered a priority in this study as a POP listed by the Stockholm Convention (UNEP 2001) and banned in the EU (Regulation (EC) No 850/2004) because of a TMDI above 80% of the TDI (Ménard, Héraud *et al.* 2008a).

Hazard characterisation

Toxicokinetic studies conducted in animals show that heptachlor is rapidly metabolised to heptachlor epoxide. Heptachlor and more specifically heptachlor epoxide accumulate in fats and are eliminated mainly in the faeces (>72%) (WHO/IPCS 2004). According to Regulation (EC) 1272/2008, heptachlor is not classified as a mutagenic or reprotoxic substance. However, the substance is classified as toxic if swallowed (T, R25) and as a category 3 carcinogen (R40). Studies in animals have demonstrated an increased incidence of liver tumours (IPCS, 1984) and the IARC has classified the substance as "potentially carcinogenic to humans" (category 2B) (IARC 2001a). Short-, medium- and long-term exposure to heptachlor in animals induces liver damage (histological anomalies) and affects the immune and nervous systems, and fertility (WHO/IPCS 2006). A PTDI of 0.0001 mg/kg bw/d was established (for the sum of heptachlor and heptachlor epoxide) on the basis of effects observed in the liver (NOAEL of 0.025 mg/kg bw/d from a study in dogs) (FAO/WHO 1995). No ARfD is available in the literature. Very few epidemiological data are available for humans and no relationship has been shown between human exposure to heptachlor and effects on health.

Risk assessment and characterisation

No residues were detected in the samples analysed (n=1022) (Table G3). Under the upperbound assumption, the highest estimated mean concentrations were those in vegetables (excluding potatoes) (UB=0.05 mg/kg). The estimated mean concentrations for foodstuffs of animal origin (UB=0.003 mg/kg) were significantly lower than those for plant foodstuffs (0.01-0.05) due to lower LODs (Tables G1 and G30). As a comparison, within the framework of the 2008 monitoring programme of all EU Member States, heptachlor and/or its metabolite were detected in eight samples of fruits and vegetables out of 36,819 samples analysed (EFSA 2010a). In France, the substance was detected in 2008 especially in fishery and freshwater products (1.4% of analyses), in poultry meat (1.3%), pork (0.7%) and beef (0.3%). Its lack of detection in the foods as consumed is very likely due to a dilution in the potential residual concentrations related to the TDS composite sample, despite correct analytical limits in the animal matrices (LOD ranging between 1 and 2 µg/kg fresh weight).

Under the upperbound (UB) assumption, estimated mean exposure in the adult population was 0.26 µg/kg bw/d (0.25-0.28) and that in children was 0.3 µg/kg bw/d (0.28-0.32). At the 95th percentile, estimated exposure was 0.47 µg/kg bw/d in adults (0.44-0.51) and 0.62 µg/kg bw/d in children (0.55-0.72) (Tables G31 and G32). Under the upperbound assumption, the PTDI was exceeded in 96.3% of adults [95.5; 97.2] and 95.3% of children [94.2; 96.4], but it was not exceeded by either group under the lowerbound assumption. A particularly low PTDI value (0.1 µg/kg bw/day), a residue definition incorporating the relevant epoxide metabolite as well as relatively high analytical limits for vegetables specifically account for these values being exceeded (Table G2). Given the relatively low analytical limits, foodstuffs of animal origin contributed only slightly to total exposure under the upperbound assumption (less than 1.4% except for milk for children with 5.7% of intakes). It seems inappropriate to lower the limits of detection for animal foodstuffs. However, given the analytical uncertainties, as part of this study it would be advisable to conduct new analyses of vegetables and beverages, with lower analytical limits (factor of 10 for vegetables, factor of 100 for beverages). The chronic risk associated with exposure to heptachlor cannot be excluded with certainty without modifying these additional analytical factors.

Hexachlorobenzene (HCB)

Hexachlorobenzene or HCB (18-74-1) was a fungicide in wide use from 1945 to the 1980s particularly as a seed dressing and for treating plots by fumigation. It is also an unintended by-product generated during incineration of wastes or during the manufacture of certain industrial chemical substances, and is found as an impurity in chlorinated solvents and some proprietary plant protection products (Bailey 2001; INERIS 2005; Tomlin 2006). HCB has a high bioaccumulation potential and has been discovered in various foods such as meat (Arino, HERRERA *et al.* 1992). Production and marketing of HCB was banned in France in 1988 and in Europe in 1993 (INERIS 2005).

Hazard characterisation

Toxicokinetic studies conducted in animals show that HCB and its metabolites have high bioaccumulation potential in fats and are mainly eliminated in the faeces (WHO/IPCS 1997). Under Regulation (EC) 1272/2008, HCB is toxic in case of prolonged exposure by ingestion (T, R48/25) but is not classified as a mutagenic or reprotoxic substance. However, this substance is classified as a category 2 carcinogen (T, R45). Short- and long-term exposure to HCB in animals causes severe liver damage and affects the thyroid, skin, ovaries, bones, nervous system and the immune system (WHO/IPCS 1997). Carcinogenesis studies in animals have demonstrated an increase in the incidence of liver and follicular tumours (WHO/IPCS 1997) and the IARC has classified this substance as "potentially carcinogenic to humans" (category 2B) (IARC 2001b). No PTDI or ARfD could be established (WHO/IPCS 1997). However, an RfD of 0.0008 mg/kg bw/d for chronic exposure was reported by the US EPA on the basis of effects observed in the liver (NOAEL of 0.08 mg/kg bw/d from a study in rats) (Arnold, Moodie *et al.* 1985; US EPA 2010). In humans, accidental exposure to high concentrations of HCB induces dermal lesions, thyroid and liver hypertrophy, hormonal disruptions and porphyrin metabolism disorders (WHO/IPCS 1997).

Risk assessment and characterisation

No residues were detected in 99.7% of the samples analysed (n=1223). Three samples (sautéed turkey cutlets and cooked merguez sausages) had unquantified residue concentrations. The estimated mean concentrations were between 0.1 µg/kg (LB) and 1.85 µg/kg (UB) for delicatessen meats and between 0.03 µg/kg (LB) and 2 µg/kg (UB) for poultry and game (Tables G3 and G4). Under the upperbound (UB) assumption, the highest estimated mean concentrations concerned all beverages as well as potatoes and potato products, sandwiches, and soups and broths (UB= 0.005 mg/kg) because of lower LODs for these matrices (Tables G1 and G30).

Under the upperbound (UB) assumption, estimated mean exposure of the adult population was 0.1 µg/kg bw/d (0.1-0.11) and that of children was 0.11 µg/kg bw/d (0.11-0.12). At the 95th percentile, estimated exposure was 0.19 µg/kg bw/d in adults (0.17-0.21) and 0.22 µg/kg bw/d in children (0.19-0.27). Under the lowerbound assumption, only delicatessen meats and poultry emerged as contributors (Tables G31 and G32). The PTDI was not exceeded in adults or children, irrespective of the assumption considered. The 95th percentile of exposure was 23% of PTDI in adults and 28% in children. Therefore the risk associated with exposure to HCB is not a public health issue.

Lindane (gamma HCH) and technical HCH

Technical hexachlorocyclohexane (HCH) is a mixture of various isomers of HCH (alpha, beta, delta and gamma). Technical HCH and gamma HCH (or lindane: 58-89-9) have been used worldwide as broad spectrum insecticides (WHO/IPCS 1991). Lindane has been used since 1940 to treat seeds, soil, trees and timber, vegetable crops and for veterinary and human applications against ectoparasites (Di Ganji 2008). Lindane and technical HCH were considered as priorities in this study as substances included in the Aarhus Protocol on POPs (United Nations 1998). Their production, placing on the market and use have been limited to certain non-agricultural applications (Regulation (EC) 850/2004). In 2009, technical HCH and lindane were listed in Annex A by the Stockholm Convention (production, use and import banned), with a specific exemption for lindane as a second-line pharmaceutical product to treat lice and scabies in humans. The residue definition of HCH is the sum of the alpha, beta and delta isomers, expressed as HCH. HCH gamma (or lindane) in turn is assessed separately (Regulation (EC) No. 396/2005).

Hazard characterisation

Toxicokinetic studies conducted in animals show that lindane is widely metabolised and eliminated mainly through urine (FAO/WHO 2002). It has high bioaccumulation potential in fatty tissue (WHO/IPCS 1991). According to Regulation (EC) 1272/2008, lindane is not classified as a carcinogenic, mutagenic or reprotoxic substance. Short-, medium-, and long-term exposure in animals induces severe damage to the nervous system (abnormal behavioural effects and motor dysfunction) and liver (hepatocellular hypertrophy). Exposure to lindane also affects foetal development (FAO/WHO 2002). In the literature, there are lower health-based guidance values, based on the potential immunotoxic properties of this compound. From a 39-week immunotoxicity study in mice, the JMPR found that lindane is not immunotoxic (JMPR 2002). Accidental exposure of humans to lindane led to serious neurological disorders: seizures, dizziness and vomiting (FAO/WHO 2002). For the other isomers (alpha, beta and delta HCH), the lowest health-based guidance value recorded was that of beta-HCH (0.0006 mg/kg bw/d). This value was established from effects observed in the liver during a 13-week study in rats (LOAEL of 0.18 mg/kg bw/d) (ATSDR 2005a). This value was used to characterise the risk associated with HCH (alpha, beta and delta).

Risk assessment and characterisation

Out of the various HCH isomers that were tested, only gamma-HCH was detected. For 99.8% of the analysed samples, no residues were detected. Only one chicken sample had a quantified level (0.04 mg/kg) and two samples (hard-boiled egg and pork roast) contained trace residues (Tables G3 and G4). Estimated mean levels ranged from 0.0001 (LB) to 0.0036 (UB) mg/kg for eggs and egg products, from 0.0007 (LB) to 0.002 (UB) mg/kg for poultry and game, and from 0.00003 (LB) to 0.002 (UB) mg/kg for other meats (Table G30).

Mean exposure to lindane in the adult population was estimated to be between 0.001 µg/kg bw/day (0-0,007) (LB) and 0.18 µg/kg bw/day (0.17-0.19) (UB). Mean exposure in the child population was estimated to be between 0.002 µg/kg bw/day (0-0.008) (LB) and 0.24 µg/kg bw/day (0.23-0.29) (UB). At the 95th percentile, exposure was estimated to be between 0.01 and 0.29 µg/kg bw/day in adults (0-0.31) and between 0.01 and 0.46 µg/kg bw/day in children (0-0.48). For the lowerbound, meats were the main contributors in both adults and children (97%) (Tables G31 and G32). The TDI was not exceeded irrespective of the assumption. For the upperbound, the 95th exposure percentile was 6% and 9% of the TDI respectively in adults and children. The risk associated with lindane exposure is therefore not a public health issue.

Regarding HCH (excluding lindane), for the upperbound (UB), the adult population's mean exposure was estimated at 0.21 µg/kg bw/day (0.19-0.22) and that of children was estimated at 0.24 µg/kg bw/day (0.23-0.25). At the 95th percentile, exposure was estimated at 0.36 µg/kg bw/day in adults (0.34-0.37) and 0.46 µg/kg bw/day in children (0.45-0.47) (Tables G31 and G32). For the upperbound, the health-based guidance value was exceeded in 0.4% of adults [0.1; 0.7] and 1.5% of children [0.9; 2.2], but it was not exceeded in any subjects for the lowerbound. This value was exceeded due to a low health-based guidance value and relatively high analytical limits for certain food groups. As a comparison, in the framework of the Member States' 2008 surveillance plans, the substance was detected in four fruit and vegetable samples out of 19,879 analysed samples (EFSA 2010a). In France, the substance was detected in 2008 in seafood and freshwater products (1.4% of analyses), poultry meat (1.3%), pork (0.7%) and beef (0.3%). However, the substance was not detected in water. One of the factors that explain the lack of detection in foodstuffs of animal origin as consumed is very likely a dilution of potential residual levels related to the TDS composite sample, in spite of satisfactory analytical limits (LODs of 1 and 2 µg/kg fresh weight) and acceptable recovery rates (90 to 120%). Consequently, it does not appear relevant to recommend lowering the limits of detection for these matrices. On the other hand, it could be recommended, in the framework of the TDS programme, to lower the analytical limits by a factor of 10 to 100 for the main theoretical contributors (vegetables and beverages). In light of the low probability of exceeding the health-based guidance value for the upperbound assumption only and rare detection in unprocessed vegetables, the risk associated with HCH exposure is not a public health issue.

Toxaphene (camphechlor)

Toxaphene (8001-35-2) or camphechlor is a complex mixture of polychlorinated bicyclic terpenes. A non-systemic insecticide acting by contact and ingestion, it was one of the most commonly used agricultural pesticides in the world in the 1970s, both in cash crops (cotton, cereals) and fruit and vegetable crops and as an antiparasitic in veterinary medicine. High toxicity to humans and high bioaccumulation potential in the soil have been highlighted (WHO/IPCS 1984a). Although it was prohibited in agriculture in 1983 in the United States and Europe (Directive 83/131), its production continued in some countries in Africa and Central America until the early 1990s (Environment Canada 2005). Toxaphene was considered a priority in this study as a POP under the Stockholm Convention (UNEP 2001) that has been banned in the European Union (Regulation 850/2004/EC).

Hazard characterisation

Toxicokinetic studies undertaken in animals show that toxaphene is widely distributed in the body and tends to accumulate in the adipose tissue, before being excreted with its metabolites in the urine and faeces (WHO/IPCS 1984a). According to Regulation 1272/2008, toxaphene is not classified as mutagenic or reprotoxic. However, the substance is classified as a carcinogenic substance, category 3 (R40). Despite an increased incidence of liver and thyroid cancers in animals (WHO/IPCS 1984a), there are no definitive conclusions as to the carcinogenic effect of toxaphene in humans. It has been classified in category 2B by IARC (possibly carcinogenic to humans) (IARC 2009; WHO/IPCS 1990). In animals, short- and long-term exposure to toxaphene causes severe hepatic lesions (liver hypertrophy and enzyme disruption) and renal lesions (degeneration of the tubular epithelium) and has effects on the central nervous system (excitation) and the thyroid (hypertrophy) (FAO/WHO 1969). Few data are available for humans. However, accidental exposure to toxaphene in humans and more particularly in young children is said to cause serious neurological disorders (convulsions, tremors, salivation, vomiting) and respiratory difficulty (WHO/IPCS 1984a). The lowest recorded reference dose (RfD) is 0.033 µg/kg bw/day (ATSDR 2009). It was established based on effects observed on the immune system (NOAEL of 0.1 mg/kg bw/day from an 8-month study in monkeys). This highly conservative value is used to characterise the risk associated with toxaphene.

Risk assessment and characterisation

The substance was tested only in foodstuffs of animal origin, which are the main contributors to exposure. No residues were detected in the analysed samples (n=510). For the upperbound, estimated mean levels were the same for all the food groups (UB=0.002 mg/kg) within the same analytical limits (Table G30).

For the upperbound (UB), the adult population's mean exposure was estimated at 0.01 µg/kg bw/day (0.009-0.01) and that of children was estimated at 0.02 µg/kg bw/day (0.02-0.03). At the 95th percentile, exposure was estimated at 0.02 µg/kg bw/day in adults (0.016-0.021) and 0.05 µg/kg bw/day in children (0.05-0.07) (Tables G31 and G32). For the upperbound, the health-based guidance value was exceeded in 20% of children [19; 23], but it was not exceeded in any subjects for the lowerbound. A very low health-based guidance value (0.033 µg/kg bw/day), established with a high uncertainty factor, explains why this value was exceeded for the upperbound assumption only. As a comparison, in 2008, the substance was not detected in foodstuffs of plant origin in Europe (EFSA 2010a) or in foodstuffs of animal origin and water in France. In light of the absence of detection in unprocessed foodstuffs, the risk associated with toxaphene exposure is not a public health issue.

3.3. Summary on pesticides

The analysis results show that 26% of the tested substances and 42% of the priority substances were found at various frequencies and concentrations in foods as consumed, and mainly in unprocessed foodstuffs such as fruits and vegetables. The most frequently detected priority substances were pirimiphos-methyl, chlorpyrifos-methyl, chlorpyrifos-ethyl, iprodione, carbendazim and imazalil. As a comparison, out of 207 substances that were tested both in TDS 2 and the DGCCRF and DGAL 2008 surveillance programmes, 58% were detected in the plans versus 34% in foods as consumed (TDS 2). This suggests that certain substances may disappear and/or potential residual levels may be diluted with food processing and preparation practices.

Out of the 194 different analysed foods, 100 had at least one detected residue (80 considering only the priority substances). However, less than 1% of all the analysis results (nearly 146,000) involved detected substances.

The results show a lack of chronic risk in children and adults for 96% of the assessed substances and for 87% of the priority substances (Table 4). For these substances, even for the upperbound, exposure levels remained very low (ranging from 0.03% to 61% of the health-based guidance value at the 95th percentile).

For lowerbound contamination, only dimethoate had a probability that was above zero, but still very low, of exceeding the ADI in adults (0.4%) and in children (0.6%). However, this substance was detected only in cherries and endives. The ADI was exceeded only by large cherry consumers, and this was due to a low ADI and a residue definition for the risk assessment that included omethoate with a high adjustment factor. Dimethoate is still authorised in the European Community and some twenty plant protection uses are authorised in France in vineyards and fruit and vegetable crops.

Twenty-five other substances, including 17 priority substances, had an above-zero probability of exceeding the health-based guidance value for the upperbound assumption only. Only two of these substances were actually detected (carbofuran, diazinon). This confirms the impact of excessively high analytical limits for certain matrices, leading to an overestimation of exposure for the upperbound. However, for 16 of these 25 substances, even though the health-based guidance value was exceeded for the upperbound, chronic health risk can be ruled out, since they were rarely detected in the Member States' surveillance programmes. For the other nine substances (dithiocarbamates, ethoprophos, carbofuran, diazinon, methamidophos, disulfoton, dieldrin, endrin and heptachlor), a chronic health risk cannot be excluded with certainty. It is therefore necessary to undertake additional analyses for the main contributors, and primarily vegetables and beverages, with more sensitive methods in order to refine the assessment of exposure. Furthermore, for dithiocarbamates, it is recommended to include assaying for ethylene thiourea in heated foods, a relevant metabolite not tested in this study.

These findings confirm ANSES's recent recommendations regarding the importance of improving, in the framework of regulatory surveillance programmes, the performance of analytical methods for dithiocarbamates, dimethoate and omethoate, carbofuran, diazinon, dieldrin and heptachlor, in order to refine characterisation of the dietary risk associated with chronic exposure in the French population (ANSES 2010a; Nougadère, Reninger *et al.* 2011).

Although they were detected in the 2008 surveillance plans, carbofuran, disulfoton and methamidophos currently have a low probability of being found, since they were withdrawn in Europe before 2008. This could be confirmed by undertaking the recommended additional analyses, particularly using the existing sample collection. However, dithiocarbamates, ethoprophos and dimethoate, which are still authorised in the European Union for agricultural uses, and diazinon, which is authorised as a veterinary antiparasitic, warrant special attention.

Table 4: Summary of risk assessment conclusions for exposure to pesticides

Substance	Primary results	Corrective actions and/or research requirements
HCH*, Iodofenphos, Mecarbam, Methidathion*, Mevinphos*, Mirex, Monocrotophos*, Oxydemeton-methyl*, Parathion*, Parathion-methyl, Phorate*, Phosphamidon*, Prothiofos, Pirimiphos-ethyl, Quinalphos*, Toxaphene* + 228 other tested substances	Risk can be excluded for the general population	-
Dimethoate*	Risk cannot be excluded for certain consumer groups	Need to revise the authorised uses and/or MRLs Need to lower the analytical limits for the main contributors
Dithiocarbamates*, Ethoprophos, Carbofuran*, Diazinon*, Methamidophos, Disulfoton*, Dieldrin*, Endrin*, Heptachlor*	Risk cannot be excluded with certainty	Need to lower the analytical limits for the main contributors

* Priority substances.

Table G5: Regulatory and toxicological characteristics of the priority active substances (2006) and chronic health-based guidance value (ADI/PTDI)

Active substance	Dir. 91/414/EEC (Annex 1)	Reference	Toxicological classification (Reg. 1272/2008/EC and Reg. 790/2009/EC)	Groupings/adjustments made (definition of residue)	ADI/PTDI (mg/kg bw/d)	Source ADI/PTDI
Aldicarb	Not included	2003/199/EC	T+; R26/28; T; R24; N; R50/53	Combined total for Aldicarb, Aldicarb sulfoxide (0.92)* and Aldicarb sulfone (0.86)	0.0030	JMPR, 1995
Aldrin	Prohibited/outside Dir.	Reg. 850/2004	T; R24/25 R48/24/25 Carc. Cat.3; R40 N; R50/53	see Dieldrin	0.0001	JMPR, 1994
Azinphos-methyl	Not included	Reg. 1335/2005	T+; R26/28 R24 R43 N; R50/53	-	0.0050	DAR, 2006
Biphenyl	Not included	2004/129/EC	Xi; R36/37/38; N; R50/53	-	0.1250	JMPR, 1967
Carbaryl	Not included	2007/355/EC	Carc. Cat. 3; R40 R20/22 N; R50	-	0.0075	EFSA, 2006
Carbendazim	Included	2010/70/EC	Muta. Cat. 2; R46 Repr. Cat. 2; R60/61 N; R50/53	Combined total for Carbendazim and (0.25 x thiophanate-methyl)	0.0200	COM, 2007
Carbetamide	Not included	2008/934/EC	non-classified	-	0.0210	DAR, 2005
Carbofuran	Not included	2007/416/EC	T+; R26/28 N; R50/53	-	0.00015	EFSA, 2009
Chlordane	Prohibited/outside Dir.	Reg. 850/2004	Xn; Carc. Cat. 3; R40 R21/22 N; R50/53	Combined total for alpha, beta and gamma chlordane	0.0005	JMPR, 1994
Chlorfenvinphos	Not included	2002/2076/EC	T+; R28 R24 N; R50/53	-	0.0005	JMPR, 1994
Chlorothalonil	Included	2005/53/EC	T+; R26 Carc. Cat.3; R40 R41 R37 R43 N; R50/53	-	0.0150	COM, 2006
Chlorpyriphos-ethyl	Included	2005/72/EC	T; R25 N; R50/53	-	0.0100	COM, 2005
Chlorpyriphos-methyl	Included	2005/72/EC	Xi; R43 N; R50/53	-	0.0100	COM, 2005
Hydrogen cyanide	Not included	2004/129/EC	non-classified	-	0.0500	UK
Cyhexatin	Not included	2008/296/EC	Xn; R20/21/22 N; R50/53	Combined total for cyhexatin and azocyclotin	0.0030	JMPR, 2005
DDT	Prohibited/outside Dir.	Reg. 850/2004	Carc. Cat. 3; R40; T; R25; T; R48/25; N; R50/53	p,p' DDT, op' DDT, pp' DDE (1.1), pp' TDE (DDD) (1.1)	0.0100	JMPR, 2000
Deltamethrin	Included	2003/5/EC	T; R23/25 N; R50/53	-	0.0100	COM, 2002
Diazinon	Not included	2007/393/EC	Xn; R22 N; R50/53	-	0.0002	EFSA, 2006
Dichlorvos	Not included	2007/387/EC	T+; R26 R24/25 R43 N; R50	-	0.0040	JMPR, 1993
Dicofol	Not included	2008/764/EC	Xn; R21/22 R38 R43 N; R50/53	Combined total for the isomers p,p' and o,p', and p,p'-dichlorobenzophenone	0.0020	JMPR, 1992
Dieldrin	Prohibited/outside Dir.	Reg. 850/2004	T+; R27 R25 R48/25 Carc. Cat.3; R40 N; R50/53	Combined total for Dieldrin and Aldrin	0.0001	JMPR, 1994
Dimethoate	Included	2007/25/EC	Xn; R21/22	Combined total for dimethoate and (3 x omethoate)	0.0010	EFSA, 2006
Diquat	Included	2001/21/EC	T+; R26 R48/25 R22 R36/37/38 R43 N; R50/53	-	0.0020	COM, 2001
Disulfoton	Not included	2002/2076/EC	T+; R27/28; N; R50/53	-	0.0003	JMPR, 1996

Active substance	Dir. 91/414/EEC (Annex 1)	Reference	Toxicological classification (Reg. 1272/2008/EC and Reg. 790/2009/EC)	Groupings/adjustments made (definition of residue)	ADI/PTDI (mg/kg bw/d)	Source ADI/PTDI
Dithiocarbamates	Included (n=6)	-	see various active substances	-	0.0070	see propineb
Endosulfan	Not included	2005/864/EC	T+; R26/28 R21 N; R50/53	Combined total for the alpha and beta isomers and endosulfan sulfate (0.96)	0.0060	ECCO, 2001
Endrin	Prohibited/outside Dir.	Reg. 850/2004	T+; R28 R24 N; R50/53	-	0.0002	JMPR, 1994
Ethion (diethion)	Not included	2002/2076/EC	T; R25 R21 N; R50/53	-	0.0020	JMPR, 1990
Ethoxyquin	Not included	2008/941/EC	Xn; R22	-	0.0050	JMPR, 2005
Fenbutatin oxide	Not included	2008/934/EC	T+; R26; Xi; R36/38; N; R50/53	-	0.0500	DAR, 2005
Fenitrothion	Not included	2007/379/EC	Xn; R22 N; R50/53	-	0.0050	EFSA, 2006
Fenpropimorph	Included	2008/107/EC	Xn; Repr. Cat. 3; R63 R22 R38 N; R51/53	-	0.0030	EFSA, 2008
Fenthion	Not included	2004/140/EC	T; R23 R48/25 Muta. Cat. 3; R68 R21/22 N; R50/53	Combined total for fenthion, fenthion sulfone and fenthion sulfoxide	0.0070	ECCO, 2001
Fentin acetate	Not included	2002/478/EC	Carc. Cat. 3; R40; Repr. Cat. 3; R63; T+; R26; T; R24/25; T; R48/23; Xi; R37/38; Xi; R41; N; R50/53	-	0.0004	ECCO, 2001
Fentin hydroxide	Not included	2002/479/EC	Carc. Cat. 3; R40; Repr. Cat. 3; R63; T+; R26; T; R24/25; T; R48/23; Xi; R37/38; Xi; R41; N; R50/53	-	0.0004	ECCO, 2001
Folpet	Included	2007/5/EC	Carc. Cat. 3; R40; Xn; R20; Xi; R36; R43; N; R50	-	0.1000	EFSA, 2006
HCH	Prohibited/outside Dir.	Reg. 850/2004	non-classified	Combined total for the alpha, beta and delta isomers	0.0006	ATSDR, 2005
Heptachlor	Prohibited/outside Dir.	Reg. 850/2004	T; R24/25 Carc. Cat.3; R40 R33 N; R50/53	Combined total for Heptachlor and Heptachlor epoxide (cis and trans)	0.0001	JMPR, 1991
Hexachlorobenzene	Prohibited/outside Dir.	Reg. 850/2004	T; Carc. Cat.2 R45 R48/25 N; R50/53	-	0.0008	EPA, 1985
Imazalil	Included	1997/73/EC	Xn; R20/22 R41 N; R50/53	-	0.0250	COM, 1997
Iprodione	Included	2003/31/EC	Xn; Carc. Cat.3; R40 N; R50/53	-	0.0600	COM, 2002
Lindane (gamma HCH)	Prohibited/outside Dir.	2000/801/EC	T; R25 R20/21 R48/22 R64 N; R50/53	-	0.0050	JMPR, 2003
Malathion	Included	2010/17/EC	Xn; R22 R43 N; R50/53	Combined total for malathion and malaoxon	0.0300	EFSA, 2009
Mancozeb	Included	2005/72/EC	Xn; Repr. Cat. 3 R63 R43 N; R50	see dithiocarbamates	0.0500	Dir. 05/72/EC
Maneb	Included	2005/72/EC	Xn; Repr. Cat. 3 R63 R20 R36 R43 N; R50/53	see dithiocarbamates	0.0500	Dir. 05/72/EC
Metaldehyde	Not included	2008/934/EC	non-classified	-	0.0200	DAR, 2006
Methidathion	Not included	2004/129/EC	T+; R28 R21 N; R50/53	-	0.0010	JMPR, 1992
Methomyl	Included	2009/115/EC	T+; R28 N; R50/53	Combined total for Methomyl and thiodicarb (0.46)	0.0025	EFSA, 2008
Metiram	Included	2005/72/EC	non-classified	see dithiocarbamates	0.0300	JMPR

Active substance	Dir. 91/414/EEC (Annex 1)	Reference	Toxicological classification (Reg. 1272/2008/EC and Reg. 790/2009/EC)	Groupings/adjustments made (definition of residue)	ADI/PTDI (mg/kg bw/d)	Source ADI/PTDI
Mevinphos	Not included	2002/2076/EC	T+; R27/28; N; R50/53	Combined total for isomers	0.0003	BE, 2001
Monocrotophos	Not included	2002/2076/EC	Muta. Cat. 3; R68; T+; R26/28; T; R24; N; R50/53	-	0.0006	JMPR, 1993
Naled	Not included	2005/788/EC	Xn; R21/22 R36/38 N; R50	-	0.0020	DAR, 2004
Ofurace	Not included	2002/2076/EC	non-classified	-	0.0007	AUS, 1987
Omethoate	Not included	2002/2076/EC	T;R25 R21 N; R50	see dimethoate	0.0003	EFSA, 2006
Oxydemeton-methyl	Not included	2007/392/EC	T; R24/25 N; R50	Combined total for oxidemeton-methyl and demeton S-methyl sulfone (0.94)	0.0003	EFSA, 2006
Parathion	Not included	2001/520/EC	T+; R26/28; T; R24; T; R48/25; N; R50/53	Combined total for parathion and paraoxon (1.06)	0.0006	ECCO, 2001
Phorate	Not included	2002/2076/EC	T+; R27/28 N; R50/53	Combined total for phorate, phorate sulfoxide (1) and phorate sulfone (0.89) (animal feeds)	0.0007	JMPR, 2004
Phosalone	Not included	2006/1010/EC	T; R25 R20/21 R43 N; R50/53	-	0.0100	EFSA, 2006
Phosmet	Included	2007/25/EC	Xn; R21/22 N; R50/53	-	0.0030	EFSA, 2006
Phosphamidon	Not included	2002/2076/EC	Muta. Cat. 3; R68; T+; R28; T; R24; N; R50/53	-	0.0005	JMPR, 1986
Hydrogen phosphide (phosphine)	Not included	-	non-classified	-	0.0003	EPA, 1993
Prochloraz	Not included	2008/934/EC	Xn; R22 N; R50/53	-	0.0100	DAR, 2007
Propineb	Included	2003/39/EC	Xn; R20 R48/20/22 R43 N; R50	see dithiocarbamates	0.0070	COM, 2003
Pyrimiphos-methyl	Included	2007/52/EC	Xn; R22 N; R50/53	-	0.0040	EFSA, 2005
Quinalphos	Not included	2002/2076/EC	T; R25 R21 N; R50/53	-	0.0005	EPA, 1985
Rotenone	Not included	2008/317/EC	T; R25 R36/37/38 N; R50/53	-	0.0010	BE, 1972
Sulfotep	Not included	2002/2076/EC	T+; R27/28; N; R50/53	-	0.0010	DE, 1990
Thiometon	Not included	2002/2076/EC	T; R25; Xn; R21	-	0.0030	JMPR, 1979
Thiram	Included	2003/81/EC	Xn; R20/22 R48/22 R36/38 R43 N; R50/53	see dithiocarbamates	0.0100	COM, 2003
Toxaphene (camphechlore)	Prohibited/outside Dir.	79/117 (83/131)	Carc. Cat. 3; R40; T; R25; Xn; R21; Xi; R37/38; N; R50/53	-	0.00003	ATSDR, 2009
Tri-allate	Included	2009/77/EC	Xn; R48/22 R22 R43 N; R50/53	-	0.0250	EFSA, 2008
Vinclozolin	Not included	Reg. 1335/2005	Carc. Cat. 3; R40; Repr. Cat. 2; R60; Repr. Cat. 2; R61; R43; N; R51/53	Combined total for vinchlozolin and 3,5-dichloroaniline (1.76) (animal feeds, vegetables)	0.0050	COM, 2006
Zineb	Not included	2001/245/EC	Xi; R37 R43	see dithiocarbamates	0.0300	JMPR

* Grouping of substances and isomers, metabolites and degradation products according to the definition of the residue in a monitoring sense (Reg. 396/2005/EC), and according to the analytical abilities, and adjustments according to the definition of the residue for the chronic risk assessment (conversion factors between brackets).

** ADI or PTDI not established.

Table G6: Estimated mean contamination of foods by carbamate residues (mg/kg FW)

Food group	Type	Aldicarb (LB)	Aldicarb (UB)	Carbaryl (LB)	Carbaryl (UB)	Carbendazim (LB)	Carbendazim (UB)	Carbetamide (LB)	Carbetamide (UB)	Carbofuran (LB)	Carbofuran (UB)	Methomyl (LB)	Methomyl (UB)	Tri-allate (LB)	Tri-allate (UB)
Bread and dried bread products	N			0	0.003	0	0.005			0	0.005				
Breakfast cereals	N			0	0.003	0	0.005			0	0.005				
Pasta	N			0	0.003	0	0.005			0	0.005				
Rice and wheat products	N			0	0.003	0	0.005			0	0.005				
Croissant-like pastries	N			0	0.003	0	0.005			0	0.005				
Sweet and savoury biscuits and bars	R	0	0.019	0	0.003	0	0.006			0	0.005	0	0.007		
Pastries and cakes	N			0	0.003	0	0.005			0	0.005				
Milk	R	0	0.019	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Ultra-fresh dairy products	R	0	0.005	0.00003	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Cheese	R	0	0.003	0	0.002	0	0.002	0	0.002			0	0.002	0	0.001
Eggs and egg products	R	0	0.017	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002
Butter	N	0	0.003					0	0.002			0	0.002	0	0.001
Meat	R	0	0.019	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Poultry and game	R	0	0.019	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Offal	R	0	0.019	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Delicatessen meats	R	0	0.019	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Fish	R	0	0.006	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Crustaceans and molluscs	R	0	0.006	0	0.002	0	0.002	0	0.002	0	0.002	0	0.002	0	0.001
Vegetables (excluding potatoes)	R	0	0.019	0	0.020	0	0.009			0.0009	0.017	0	0.007		
Potatoes and potato products	R	0	0.019	0	0.005	0	0.014			0	0.005	0	0.007		
Pulses	R	0	0.019	0	0.004	0	0.009			0	0.005	0	0.007		
Fruits	R	0	0.020	0	0.005	0.002	0.010			0	0.005	0.00003	0.008		
Dried fruits, nuts and seeds	N			0	0.003	0	0.005			0	0.005				
Chocolate	N			0	0.005					0	0.005				
Sugars and sugar derivatives	N	0	0.001	0	0.004	0	0.003			0	0.005	0	0.001		
Water	R	0	0.0001	0	0.0001	0.00019	0.00023	0	0.0001	0	0.00004	0	0.0001	0	0.0001
Soft drinks	N	0	0.001	0	0.005	0	0.001			0	0.005	0	0.001		
Alcoholic beverages	N	0	0.001	0	0.005	0	0.001			0	0.005	0	0.001		
Coffee	R			0	0.005					0	0.005				
Other hot beverages	R	0	0.001	0	0.005	0	0.001			0	0.005	0	0.001		
Pizzas, quiches and savoury pastries	N	0	0.010	0	0.003	0	0.011	0	0.002	0	0.003	0	0.005	0	0.001
Sandwiches and snacks	R	0	0.019	0	0.005	0	0.020			0	0.005	0	0.007		
Soups and broths	R	0	0.019	0	0.005	0	0.014			0	0.005	0	0.007		
Mixed dishes	R	0	0.017	0	0.004	0	0.016	0	0.002	0	0.004	0	0.006	0	0.001
Dairy-based desserts	R	0	0.009	0	0.002	0	0.004	0	0.002	0	0.002	0	0.003	0	0.001
Compotes and cooked fruit	N			0	0.003	0	0.005			0	0.005				
Seasonings and sauces	N	0	0.018	0	0.004	0	0.011	0	0.002	0	0.004	0	0.005	0	0.002

Table G7: Estimated exposure (mean and P95) in adults to carbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Aldicarb mean (UB)	Aldicarb P95 (UB)	Aldicarb contrib (UB)	Carbaryl mean (LB)	Carbaryl mean (UB)	Carbaryl P95 (UB)	Carbaryl contrib (LB)	Carbaryl contrib (UB)	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)
Bread and dried bread products				0	0.005	0.011	0.0	3.7	0.000	0.008	0.000	0.019
Breakfast cereals				0	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.006
Pasta				0	0.002	0.005	0.0	1.3	0.000	0.003	0.000	0.009
Rice and wheat products				0	0.001	0.005	0.0	0.8	0.000	0.002	0.000	0.008
Croissant-like pastries				0	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.005
Sweet and savoury biscuits and bars	0.000	0.005	0.1	0	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.004
Pastries and cakes				0	0.001	0.005	0.0	1.0	0.000	0.002	0.000	0.008
Milk	0.024	0.128	14.5	0	0.002	0.011	0.0	1.6	0.000	0.002	0.000	0.011
Ultra-fresh dairy products	0.003	0.009	1.8	0.00002	0.002	0.006	100.0	1.5	0.000	0.002	0.000	0.006
Cheese	0.001	0.004	0.8	0	0.001	0.002	0.0	0.5	0.000	0.001	0.000	0.002
Eggs and egg products	0.004	0.014	2.3	0	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001
Butter	0.001	0.002	0.3									
Meat	0.012	0.031	7.2	0	0.001	0.003	0.0	0.8	0.000	0.001	0.000	0.003
Poultry and game	0.007	0.029	4.6	0	0.001	0.003	0.0	0.5	0.000	0.001	0.000	0.003
Offal	0.000	0.010	0.2	0	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.008	0.021	4.7	0	0.001	0.002	0.0	0.5	0.000	0.001	0.000	0.002
Fish	0.001	0.005	0.7	0	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001
Crustaceans and molluscs	0.000	0.003	0.2	0	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.002	0.020	1.1	0	0.030	0.077	0.0	22.7	0.000	0.015	0.000	0.035
Potatoes and potato products	0.016	0.041	9.5	0	0.004	0.011	0.0	3.2	0.000	0.011	0.000	0.031
Pulses	0.001	0.019	0.8	0	0.000	0.005	0.0	0.3	0.000	0.001	0.000	0.013
Fruits	0.039	0.124	24.1	0	0.010	0.031	0.0	7.5	0.015	0.030	0.094	0.124
Dried fruits. nuts and seeds				0	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.002
Ice creams. sorbets and frozen desserts				0	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002
Chocolate				0	0.000	0.002	0.0	0.2				
Sugars and sugar derivatives	0.000	0.000	0.0	0	0.001	0.003	0.0	0.4	0.000	0.001	0.000	0.004
Water	0.002	0.008	1.2	0	0.013	0.071	0.0	9.7	0.006	0.008	0.050	0.051
Soft drinks	0.001	0.005	0.5	0	0.009	0.045	0.0	6.5	0.000	0.001	0.000	0.006
Alcoholic beverages	0.001	0.004	0.6	0	0.009	0.043	0.0	7.1	0.000	0.001	0.000	0.005
Coffee				0	0.016	0.060	0.0	12.3				
Other hot beverages	0.000	0.002	0.0	0	0.010	0.068	0.0	7.7	0.000	0.000	0.000	0.003
Pizzas. quiches and savoury pastries	0.004	0.028	2.5	0	0.001	0.008	0.0	0.9	0.000	0.004	0.000	0.030
Sandwiches and snacks	0.004	0.033	2.2	0	0.001	0.009	0.0	0.7	0.000	0.004	0.000	0.035
Soups and broths	0.019	0.117	11.8	0	0.005	0.032	0.0	3.9	0.000	0.013	0.000	0.080
Mixed dishes	0.010	0.046	5.9	0	0.003	0.013	0.0	2.0	0.000	0.010	0.000	0.049
Dairy-based desserts	0.003	0.020	1.7	0	0.001	0.004	0.0	0.4	0.000	0.001	0.000	0.007
Compotes and cooked fruit				0	0.001	0.005	0.0	0.5	0.000	0.001	0.000	0.009
Seasonings and sauces	0.001	0.006	0.7	0	0.000	0.001	0.0	0.2	0.000	0.001	0.000	0.005
TOTAL	**0.163**	**0.296**	**100.0**	**0.00002**	**0.132**	**0.228**	**100.0**	**100.0**	**0.021**	**0.127**	**0.115**	**0.245**

Food group	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Carbetamide mean (UB)	Carbetamide P95 (UB)	Carbetamide contrib (UB)	Carbofuran mean (LB)	Carbofuran mean (UB)	Carbofuran P95 (LB)	Carbofuran P95 (UB)	Carbofuran contrib (LB)	Carbofuran contrib (UB)
Bread and dried bread products	0.0	6.4				0.0	0.008	0.000	0.019	0.0	6.0
Breakfast cereals	0.0	0.2				0.0	0.000	0.000	0.006	0.0	0.2
Pasta	0.0	2.2				0.0	0.003	0.000	0.009	0.0	2.1
Rice and wheat products	0.0	1.4				0.0	0.002	0.000	0.008	0.0	1.4
Croissant-like pastries	0.0	0.6				0.0	0.001	0.000	0.005	0.0	0.6
Sweet and savoury biscuits and bars	0.0	0.5				0.0	0.001	0.000	0.004	0.0	0.5
Pastries and cakes	0.0	1.7				0.0	0.002	0.000	0.008	0.0	1.6
Milk	0.0	1.6	0.002	0.011	21.8	0.0	0.002	0.000	0.011	0.0	1.6
Ultra-fresh dairy products	0.0	1.6	0.002	0.006	20.6	0.0	0.002	0.000	0.006	0.0	1.2
Cheese	0.0	0.5	0.001	0.002	7.0						
Eggs and egg products	0.0	0.3	0.000	0.001	3.7	0.0	0.000	0.000	0.001	0.0	0.3
Butter			0.000	0.001	2.8						
Meat	0.0	0.8	0.001	0.003	10.8	0.0	0.001	0.000	0.003	0.0	0.8
Poultry and game	0.0	0.5	0.001	0.003	6.9	0.0	0.001	0.000	0.003	0.0	0.5
Offal	0.0	0.0	0.000	0.001	0.4	0.0	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.0	0.5	0.001	0.002	7.0	0.0	0.001	0.000	0.002	0.0	0.5
Fish	0.0	0.2	0.000	0.001	3.2	0.0	0.000	0.000	0.001	0.0	0.2
Crustaceans and molluscs	0.0	0.1	0.000	0.001	0.9	0.0	0.000	0.000	0.001	0.0	0.1
Vegetables (excluding potatoes)	0.0	11.5				0.0006	0.026	0.002	0.064	100.0	19.1
Potatoes and potato products	0.0	8.9				0.0	0.004	0.000	0.011	0.0	3.1
Pulses	0.0	0.8				0.0	0.000	0.000	0.005	0.0	0.3
Fruits	71.0	23.5				0.0	0.010	0.000	0.031	0.0	7.4
Dried fruits. nuts and seeds	0.0	0.2				0.0	0.000	0.000	0.002	0.0	0.1
Ice creams. sorbets and frozen desserts	0.0	0.0				0.0	0.000	0.000	0.002	0.0	0.0
Chocolate						0.0	0.000	0.000	0.002	0.0	0.2
Sugars and sugar derivatives	0.0	0.6				0.0	0.001	0.000	0.005	0.0	0.6
Water	29.0	6.3	0.001	0.002	8.2	0.0	0.013	0.000	0.071	0.0	9.5
Soft drinks	0.0	0.8				0.0	0.009	0.000	0.045	0.0	6.5
Alcoholic beverages	0.0	0.8				0.0	0.009	0.000	0.043	0.0	7.0
Coffee						0.0	0.016	0.000	0.060	0.0	12.2
Other hot beverages	0.0	0.1				0.0	0.010	0.000	0.068	0.0	7.6
Pizzas. quiches and savoury pastries	0.0	3.4	0.000	0.001	0.8	0.0	0.001	0.000	0.008	0.0	0.9
Sandwiches and snacks	0.0	3.0				0.0	0.001	0.000	0.009	0.0	0.7
Soups and broths	0.0	10.6				0.0	0.005	0.000	0.032	0.0	3.9
Mixed dishes	0.0	8.0	0.000	0.001	0.6	0.0	0.003	0.000	0.013	0.0	2.0
Dairy-based desserts	0.0	0.7	0.000	0.003	5.1	0.0	0.001	0.000	0.004	0.0	0.4
Compotes and cooked fruit	0.0	0.8				0.0	0.001	0.000	0.009	0.0	0.8
Seasonings and sauces	0.0	0.5	0.000	0.000	0.3	0.0	0.000	0.000	0.001	0.0	0.2
TOTAL	**100.0**	**100.0**	**0.010**	**0.018**	**100.0**	**0.0006**	**0.134**	**0.002**	**0.228**	**100.0**	**100.0**

Food group	Methomyl mean (LB)	Methomyl mean (UB)	Methomyl P95 (LB)	Methomyl P95 (UB)	Methomyl contrib (LB)	Methomyl contrib (UB)	Triallate mean (UB)	Triallate P95 (UB)	Triallate contrib (UB)
Bread and dried bread products									
Breakfast cereals									
Pasta									
Rice and wheat products									
Croissant-like pastries									
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.002	0.0	0.2			
Pastries and cakes									
Milk	0.000	0.003	0.000	0.016	0.0	5.6	0.001	0.007	19.9
Ultra-fresh dairy products	0.000	0.003	0.000	0.009	0.0	5.3	0.001	0.004	18.8
Cheese	0.000	0.001	0.000	0.003	0.0	1.8	0.000	0.001	6.4
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.7	0.000	0.001	5.7
Butter	0.000	0.000	0.000	0.001	0.0	0.7	0.000	0.000	2.5
Meat	0.000	0.001	0.000	0.003	0.0	1.9	0.001	0.002	10.7
Poultry and game	0.000	0.001	0.000	0.003	0.0	1.2	0.000	0.002	6.3
Offal	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.3
Delicatessen meats	0.000	0.001	0.000	0.002	0.0	1.2	0.000	0.001	6.4
Fish	0.000	0.000	0.000	0.001	0.0	0.6	0.000	0.001	2.9
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.8
Vegetables (excluding potatoes)	0.000	0.001	0.000	0.008	0.0	1.4			
Potatoes and potato products	0.000	0.006	0.000	0.016	0.0	11.4			
Pulses	0.000	0.001	0.000	0.008	0.0	1.0			
Fruits	0.000	0.015	0.000	0.048	100.0	28.0			
Dried fruits. nuts and seeds									
Ice creams. sorbets and frozen desserts									
Chocolate									
Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0.0	0.0			
Water	0.000	0.003	0.000	0.011	0.0	4.7	0.001	0.002	12.5
Soft drinks	0.000	0.001	0.000	0.007	0.0	2.3			
Alcoholic beverages	0.000	0.001	0.000	0.006	0.0	2.5			
Coffee									
Other hot beverages	0.000	0.000	0.000	0.003	0.0	0.1			
Pizzas. quiches and savoury pastries	0.000	0.002	0.000	0.011	0.0	3.1	0.000	0.001	0.7
Sandwiches and snacks	0.000	0.001	0.000	0.013	0.0	2.6			
Soups and broths	0.000	0.008	0.000	0.046	0.0	14.1			
Mixed dishes	0.000	0.004	0.000	0.018	0.0	7.2	0.000	0.001	0.6
Dairy-based desserts	0.000	0.001	0.000	0.005	0.0	1.5	0.000	0.002	5.2
Compotes and cooked fruit									
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.6	0.000	0.000	0.4
TOTAL	**0.000**	**0.054**	**0.000**	**0.097**	**100.0**	**100.0**	**0.006**	**0.012**	**100.0**

Table G8: Estimated exposure (mean and P95) in children to carbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Aldicarb mean (UB)	Aldicarb P95 (UB)	Aldicarb contrib (UB)	Carbaryl mean (LB)	Carbaryl mean (UB)	Carbaryl P95 (UB)	Carbaryl contrib (LB)	Carbaryl contrib (UB)	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)
Bread and dried bread products				0	0.005	0.012	0.0	3.1	0.000	0.008	0.000	0.020
Breakfast cereals				0	0.001	0.006	0.0	0.8	0.000	0.002	0.000	0.010
Pasta				0	0.004	0.011	0.0	2.5	0.000	0.006	0.000	0.018
Rice and wheat products				0	0.002	0.009	0.0	1.4	0.000	0.004	0.000	0.015
Croissant-like pastries				0	0.002	0.007	0.0	1.0	0.000	0.003	0.000	0.011
Sweet and savoury biscuits and bars	0.001	0.009	0.2	0	0.002	0.006	0.0	1.0	0.000	0.003	0.000	0.010
Pastries and cakes				0	0.003	0.010	0.0	2.0	0.000	0.005	0.000	0.017
Milk	0.107	0.366	34.4	0	0.009	0.032	0.0	6.3	0.000	0.009	0.000	0.032
Ultra-fresh dairy products	0.011	0.057	3.6	0.00003	0.004	0.014	100.0	2.9	0.000	0.004	0.000	0.014
Cheese	0.002	0.005	0.5	0	0.001	0.003	0.0	0.6	0.000	0.001	0.000	0.003
Eggs and egg products	0.005	0.028	1.7	0	0.001	0.003	0.0	0.3	0.000	0.001	0.000	0.003
Butter	0.001	0.003	0.3									
Meat	0.019	0.054	6.2	0	0.002	0.005	0.0	1.1	0.000	0.002	0.000	0.005
Poultry and game	0.010	0.036	3.3	0	0.001	0.003	0.0	0.6	0.000	0.001	0.000	0.003
Offal	0.000	0.014	0.1	0	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.012	0.039	4.0	0	0.001	0.003	0.0	0.7	0.000	0.001	0.000	0.003
Fish	0.002	0.009	0.7	0	0.001	0.003	0.0	0.4	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.003	0.1	0	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.002	0.033	0.8	0	0.035	0.102	0.0	23.8	0.000	0.018	0.000	0.048
Potatoes and potato products	0.029	0.074	9.2	0	0.008	0.020	0.0	5.2	0.000	0.022	0.000	0.056
Pulses	0.002	0.032	0.8	0	0.001	0.009	0.0	0.5	0.000	0.002	0.000	0.022
Fruits	0.041	0.134	13.2	0	0.010	0.034	0.0	7.0	0.011	0.026	0.071	0.102
Dried fruits, nuts and seeds				0	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts				0	0.000	0.007	0.0	0.0	0.000	0.000	0.000	0.011
Chocolate				0	0.001	0.004	0.0	0.4				
Sugars and sugar derivatives	0.000	0.000	0.0	0	0.000	0.004	0.0	0.3	0.000	0.001	0.000	0.006
Water	0.002	0.006	0.6	0	0.009	0.049	0.0	6.1	0.007	0.009	0.060	0.060
Soft drinks	0.002	0.008	0.8	0	0.024	0.074	0.0	16.1	0.000	0.003	0.000	0.009
Alcoholic beverages	0.000	0.002	0.0	0	0.000	0.015	0.0	0.1	0.000	0.000	0.000	0.002
Coffee				0	0.000	0.029	0.0	0.3				
Other hot beverages	0.000	0.005	0.1	0	0.003	0.029	0.0	2.3	0.000	0.000	0.000	0.006
Pizzas, quiches and savoury pastries	0.007	0.039	2.3	0	0.002	0.011	0.0	1.3	0.000	0.008	0.000	0.042
Sandwiches and snacks	0.005	0.035	1.6	0	0.001	0.009	0.0	0.9	0.000	0.005	0.000	0.037
Soups and broths	0.021	0.155	6.8	0	0.006	0.042	0.0	3.9	0.000	0.015	0.000	0.112
Mixed dishes	0.019	0.071	6.0	0	0.005	0.019	0.0	3.6	0.000	0.020	0.000	0.073
Dairy-based desserts	0.007	0.042	2.3	0	0.002	0.008	0.0	1.1	0.000	0.002	0.000	0.010
Compotes and cooked fruit				0	0.002	0.013	0.0	1.3	0.000	0.003	0.000	0.022
Seasonings and sauces	0.002	0.012	0.6	0	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.008
TOTAL	**0.312**	**0.693**	**100.0**	**0.00003**	**0.149**	**0.301**	**100.0**	**100.0**	**0.018**	**0.185**	**0.086**	**0.373**

Food group	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Carbetamide mean (UB)	Carbetamide P95 (UB)	Carbetamide contrib (UB)	Carbofuran mean (LB)	Carbofuran mean (UB)	Carbofuran P95 (LB)	Carbofuran P95 (UB)	Carbofuran contrib (LB)	Carbofuran contrib (UB)
Bread and dried bread products	0.0	4.1				0.000	0.008	0.000	0.020	0.0	4.9
Breakfast cereals	0.0	1.1				0.000	0.002	0.000	0.010	0.0	1.3
Pasta	0.0	3.4				0.000	0.006	0.000	0.018	0.0	4.1
Rice and wheat products	0.0	1.9				0.000	0.004	0.000	0.015	0.0	2.3
Croissant-like pastries	0.0	1.4				0.000	0.003	0.000	0.011	0.0	1.6
Sweet and savoury biscuits and bars	0.0	1.4				0.000	0.002	0.000	0.010	0.0	1.6
Pastries and cakes	0.0	2.7				0.000	0.005	0.000	0.017	0.0	3.2
Milk	0.0	5.1	0.009	0.032	40.8	0.000	0.009	0.000	0.032	0.0	6.1
Ultra-fresh dairy products	0.0	2.3	0.004	0.014	18.8	0.000	0.003	0.000	0.012	0.0	2.2
Cheese	0.0	0.5	0.001	0.003	3.7						
Eggs and egg products	0.0	0.3	0.001	0.003	2.2	0.000	0.001	0.000	0.003	0.0	0.3
Butter			0.000	0.001	1.8						
Meat	0.0	0.9	0.002	0.005	7.3	0.000	0.002	0.000	0.005	0.0	1.1
Poultry and game	0.0	0.5	0.001	0.003	4.0	0.000	0.001	0.000	0.003	0.0	0.6
Offal	0.0	0.0	0.000	0.001	0.1	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.0	0.6	0.001	0.003	4.7	0.000	0.001	0.000	0.003	0.0	0.7
Fish	0.0	0.3	0.001	0.003	2.6	0.000	0.001	0.000	0.003	0.0	0.4
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.0	9.5				0.001	0.030	0.000	0.086	100.0	19.6
Potatoes and potato products	0.0	11.7				0.000	0.008	0.000	0.020	0.0	5.0
Pulses	0.0	1.0				0.000	0.001	0.000	0.009	0.0	0.5
Fruits	58.4	14.3				0.000	0.010	0.000	0.034	0.0	6.8
Dried fruits. nuts and seeds	0.0	0.1				0.000	0.000	0.000	0.003	0.0	0.1
Ice creams. sorbets and frozen desserts	0.0	0.1				0.000	0.000	0.000	0.011	0.0	0.1
Chocolate						0.000	0.001	0.000	0.004	0.0	0.4
Sugars and sugar derivatives	0.0	0.3				0.000	0.001	0.000	0.007	0.0	0.4
Water	41.6	5.1	0.001	0.003	5.0	0.000	0.009	0.000	0.049	0.0	5.9
Soft drinks	0.0	1.7				0.000	0.024	0.000	0.074	0.0	15.5
Alcoholic beverages	0.0	0.0				0.000	0.000	0.000	0.015	0.0	0.1
Coffee						0.000	0.000	0.000	0.029	0.0	0.3
Other hot beverages	0.0	0.1				0.000	0.003	0.000	0.029	0.0	2.2
Pizzas. quiches and savoury pastries	0.0	4.1	0.000	0.002	0.6	0.000	0.002	0.000	0.011	0.0	1.3
Sandwiches and snacks	0.0	2.9				0.000	0.001	0.000	0.009	0.0	0.9
Soups and broths	0.0	8.1				0.000	0.006	0.000	0.042	0.0	3.7
Mixed dishes	0.0	10.8	0.000	0.002	1.3	0.000	0.005	0.000	0.019	0.0	3.4
Dairy-based desserts	0.0	1.1	0.002	0.007	6.6	0.000	0.002	0.000	0.008	0.0	1.1
Compotes and cooked fruit	0.0	1.7				0.000	0.003	0.000	0.022	0.0	2.1
Seasonings and sauces	0.0	0.7	0.000	0.000	0.2	0.000	0.000	0.000	0.003	0.0	0.3
TOTAL	**100.0**	**100.0**	**0.023**	**0.052**	**100.0**	**0.001**	**0.155**	**0.000**	**0.301**	**100.0**	**100.0**

Food group	Methomyl mean (LB)	Methomyl mean (UB)	Methomyl P95 (LB)	Methomyl P95 (UB)	Methomyl contrib (LB)	Methomyl contrib (UB)	Triallate mean (UB)	Triallate P95 (UB)	Triallate contrib (UB)
Bread and dried bread products									
Breakfast cereals									
Pasta									
Rice and wheat products									
Croissant-like pastries									
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.004	0.0	0.3			
Pastries and cakes									
Milk	0.000	0.014	0.000	0.047	0.0	15.9	0.006	0.019	38.6
Ultra-fresh dairy products	0.000	0.006	0.000	0.020	0.0	7.3	0.003	0.008	17.7
Cheese	0.000	0.001	0.000	0.004	0.0	1.4	0.001	0.002	3.5
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.6	0.001	0.003	3.5
Butter	0.000	0.001	0.000	0.002	0.0	0.7	0.000	0.001	1.7
Meat	0.000	0.002	0.000	0.005	0.0	2.0	0.001	0.003	7.4
Poultry and game	0.000	0.001	0.000	0.003	0.0	1.1	0.001	0.002	3.7
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.1
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	1.3	0.001	0.002	4.4
Fish	0.000	0.001	0.000	0.003	0.0	0.7	0.000	0.002	2.5
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.2
Vegetables (excluding potatoes)	0.000	0.001	0.000	0.013	0.0	1.1			
Potatoes and potato products	0.000	0.011	0.000	0.029	0.0	13.2			
Pulses	0.000	0.001	0.000	0.013	0.0	1.1			
Fruits	0.000	0.016	0.000	0.051	100.0	18.3			
Dried fruits, nuts and seeds									
Ice creams, sorbets and frozen desserts									
Chocolate									
Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0.0	0.0			
Water	0.000	0.002	0.000	0.008	0.0	2.7	0.001	0.003	7.9
Soft drinks	0.000	0.003	0.000	0.011	0.0	4.0			
Alcoholic beverages	0.000	0.000	0.000	0.002	0.0	0.0			
Coffee									
Other hot beverages	0.000	0.000	0.000	0.007	0.0	0.3			
Pizzas, quiches and savoury pastries	0.000	0.003	0.000	0.017	0.0	3.4	0.000	0.001	0.6
Sandwiches and snacks	0.000	0.002	0.000	0.014	0.0	2.3			
Soups and broths	0.000	0.008	0.000	0.061	0.0	9.8			
Mixed dishes	0.000	0.008	0.000	0.028	0.0	9.0	0.000	0.001	1.3
Dairy-based desserts	0.000	0.002	0.000	0.012	0.0	2.7	0.001	0.005	6.6
Compotes and cooked fruit									
Seasonings and sauces	0.000	0.001	0.000	0.004	0.0	0.8	0.000	0.000	0.3
TOTAL	**0.000**	**0.086**	**0.000**	**0.176**	**100.0**	**100.0**	**0.015**	**0.033**	**100.0**

Table G9: Estimated mean contamination of foods by other pesticide residues (mg/kg FW)

Food group	Type	Biphenyl (LB)	Biphenyl (UB)	Deltamethrin (LB)	Deltamethrin (UB)	Diquat (LB)	Diquat (UB)	Ethoxyquin (LB)	Ethoxyquin (UB)	Fenpropimorph (LB)	Fenpropimorph (UB)	Ofurace (LB)	Ofurace (UB)	Rotenone (LB)	Rotenone (UB)
Bread and dried bread products	N			0	0.007			0	0.005	0	0.005				
Breakfast cereals	N			0	0.007			0	0.005	0	0.005				
Pasta	N			0	0.007			0	0.005	0	0.005				
Rice and wheat products	N			0	0.007			0	0.005	0	0.005				
Croissant-like pastries	N			0	0.007			0	0.005	0	0.005				
Sweet and savoury biscuits and bars	R			0	0.017			0	0.005	0	0.005				
Pastries and cakes	N			0	0.007			0	0.005	0	0.005				
Milk	R			0	0.003	0	0.003	0	0.033	0	0.002	0	0.002	0	0.002
Ultra-fresh dairy products	R			0	0.003	0	0.003	0	0.033	0	0.002	0	0.002	0	0.002
Cheese	R			0	0.003							0	0.002		
Eggs and egg products	R			0	0.003							0	0.002	0	0.002
Butter	N			0	0.003							0	0.002		
Meat	R			0	0.003							0	0.002	0	0.002
Poultry and game	R			0	0.003							0	0.002	0	0.002
Offal	R			0	0.003							0	0.002	0	0.002
Delicatessen meats	R			0	0.003							0	0.002	0	0.002
Fish	R			0	0.003							0	0.002		
Crustaceans and molluscs	R			0	0.003							0	0.002		
Vegetables (excluding potatoes)	R			0	0.022			0	0.009	0	0.017				
Potatoes and potato products	R			0	0.039										
Pulses	R			0	0.016			0	0.005	0	0.005				
Fruits	R	0	0.005	0	0.003			0.047	0.047	0	0.005				
Dried fruits, nuts and seeds	N			0	0.007			0	0.005	0	0.005				
Chocolate	N	0	0.005	0	0.010										
Sugars and sugar derivatives	N	0	0.005	0	0.009			0	0.005	0	0.005				
Water	R	0	0.0001	0	0.0001	0	0.0001	0	0.0001	0	0.0001	0	0.0001	0	0.0001
Soft drinks	N	0	0.005	0	0.010			0	0.005	0	0.005				
Alcoholic beverages	N	0	0.005	0	0.010										
Coffee	R	0	0.005	0	0.010										
Other hot beverages	R	0	0.005	0	0.010										
Pizzas, quiches and savoury pastries	N			0	0.014	0	0.003			0	0.002	0	0.002	0	0.002
Sandwiches and snacks	R			0	0.025										
Soups and broths	R			0	0.025										
Mixed dishes	R			0	0.020	0	0.003			0	0.002	0	0.002	0	0.002
Dairy-based desserts	R			0	0.006	0	0.003					0	0.002	0	0.002
Compotes and cooked fruit	N			0	0.007			0.00063	0.007	0	0.005				
Seasonings and sauces	N			0	0.018							0	0.002	0	0.002

Table G10: Estimated exposure (mean and P95) in adults to other pesticide residues (µg/kg bw/day) and contribution of foods (%)

Food group	Biphenyl mean (UB)	Biphenyl P95 (UB)	Biphenyl contrib (UB)	Deltamethrin mean (LB)	Deltamethrin mean (UB)	Deltamethrin P95 (UB)	Deltamethrin contrib (LB)	Deltamethrin contrib (UB)	Diquat mean (UB)	Diquat P95 (UB)	Diquat contrib (UB)	Fenpropimorph mean (UB)	Fenpropimorph P95 (UB)	Fenpropimorph contrib (UB)
Bread and dried bread products				0.000	0.011	0.026	0.0	4.0				0.008	0.019	13.9
Breakfast cereals				0.000	0.000	0.009	0.0	0.1				0.000	0.006	0.5
Pasta				0.000	0.004	0.012	0.0	1.4				0.003	0.009	4.8
Rice and wheat products				0.000	0.003	0.011	0.0	0.9				0.002	0.008	3.2
Croissant-like pastries				0.000	0.001	0.008	0.0	0.4				0.001	0.005	1.3
Sweet and savoury biscuits and bars				0.000	0.001	0.009	0.0	0.5				0.001	0.004	1.0
Pastries and cakes				0.000	0.003	0.012	0.0	1.1				0.002	0.008	3.8
Milk				0.000	0.004	0.022	0.0	1.5	0.004	0.022	43.6	0.002	0.011	3.6
Ultra-fresh dairy products				0.000	0.004	0.012	0.0	1.4	0.003	0.011	34.9	0.002	0.006	2.9
Cheese				0.000	0.001	0.004	0.0	0.5						
Eggs and egg products				0.000	0.001	0.003	0.0	0.3						
Butter				0.000	0.001	0.002	0.0	0.2						
Meat				0.000	0.002	0.006	0.0	0.8						
Poultry and game				0.000	0.001	0.005	0.0	0.5						
Offal				0.000	0.000	0.002	0.0	0.0						
Delicatessen meats				0.000	0.001	0.004	0.0	0.5						
Fish				0.000	0.001	0.003	0.0	0.2						
Crustaceans and molluscs				0.000	0.000	0.002	0.0	0.1						
Vegetables (excluding potatoes)				0.000	0.035	0.084	0.0	12.3				0.025	0.062	42.6
Potatoes and potato products				0.000	0.031	0.091	0.0	10.9						
Pulses				0.000	0.002	0.025	0.0	0.7				0.000	0.005	0.1
Fruits	0.010	0.031	14.6	0.000	0.006	0.019	0.0	2.1				0.010	0.031	17.2
Dried fruits, nuts and seeds				0.000	0.000	0.003	0.0	0.1				0.000	0.002	0.3
Ice creams, sorbets and frozen desserts				0.000	0.000	0.003	0.0	0.0				0.000	0.002	0.0
Chocolate	0.000	0.002	0.4	0.000	0.001	0.004	0.0	0.2						
Sugars and sugar derivatives	0.000	0.002	0.2	0.000	0.001	0.007	0.0	0.4				0.001	0.004	1.2
Water	0.013	0.071	18.9	0.000	0.025	0.143	0.0	8.8	0.001	0.002	8.2	0.001	0.002	1.4
Soft drinks	0.009	0.046	12.7	0.000	0.017	0.091	0.0	6.1				0.000	0.006	0.2
Alcoholic beverages	0.009	0.043	13.9	0.000	0.019	0.087	0.0	6.7						
Coffee	0.016	0.060	24.2	0.000	0.033	0.120	0.0	11.6						
Other hot beverages	0.010	0.068	15.1	0.000	0.020	0.135	0.0	7.2						
Pizzas, quiches and savoury pastries				0.000	0.005	0.038	0.0	1.9	0.000	0.003	1.5	0.000	0.001	0.1
Sandwiches and snacks				0.000	0.005	0.044	0.0	1.7						
Soups and broths				0.000	0.026	0.158	0.0	9.2						
Mixed dishes				0.000	0.013	0.061	0.0	4.5	0.000	0.002	1.3	0.000	0.001	0.1
Dairy-based desserts				0.000	0.001	0.010	0.0	0.5	0.001	0.005	8.5			
Compotes and cooked fruit				0.000	0.001	0.013	0.0	0.5				0.001	0.009	1.8
Seasonings and sauces				0.000	0.001	0.007	0.0	0.4						
TOTAL	**0.067**	**0.142**	**100.0**	**0.000**	**0.282**	**0.483**	**100.0**	**100.0**	**0.010**	**0.025**	**100.0**	**0.058**	**0.110**	**100.0**

Food group	Ethoxyquin mean (LB)	Ethoxyquin mean (UB)	Ethoxyquin P95 (LB)	Ethoxyquin P95 (UB)	Ethoxyquin contrib (LB)	Ethoxyquin contrib (UB)	Ofurace mean (UB)	Ofurace P95 (UB)	Ofurace contrib (UB)	Rotenone mean (UB)	Rotenone P95 (UB)	Rotenone contrib (UB)
Bread and dried bread products	0.000	0.008	0.000	0.019	0.0	9.7						
Breakfast cereals	0.000	0.000	0.000	0.006	0.0	0.3						
Pasta	0.000	0.003	0.000	0.009	0.0	3.3						
Rice and wheat products	0.000	0.002	0.000	0.008	0.0	2.2						
Croissant-like pastries	0.000	0.001	0.000	0.005	0.0	0.9						
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.004	0.0	0.7						
Pastries and cakes	0.000	0.002	0.000	0.008	0.0	2.6						
Milk	0.000	0.042	0.000	0.225	0.0	50.1	0.002	0.011	21.8	0.002	0.011	26.2
Ultra-fresh dairy products	0.000	0.001	0.000	0.057	0.0	1.4	0.002	0.006	20.6	0.002	0.006	21.0
Cheese							0.001	0.002	7.0			
Eggs and egg products							0.000	0.001	3.7	0.000	0.001	4.5
Butter							0.000	0.001	2.8			
Meat							0.001	0.003	10.8	0.001	0.003	13.0
Poultry and game							0.001	0.003	6.9	0.001	0.003	8.3
Offal							0.000	0.001	0.4	0.000	0.001	0.4
Delicatessen meats							0.001	0.002	7.0	0.001	0.002	8.5
Fish							0.000	0.001	3.2			
Crustaceans and molluscs							0.000	0.001	0.9			
Vegetables (excluding potatoes)	0.000	0.013	0.000	0.032	0.0	15.9						
Potatoes and potato products												
Pulses	0.000	0.000	0.000	0.005	0.0	0.1						
Fruits	0.007	0.007	0.108	0.108	98.2	8.8						
Dried fruits. nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.2						
Ice creams. sorbets and frozen desserts	0.000	0.000	0.000	0.002	0.0	0.0						
Chocolate												
Sugars and sugar derivatives	0.000	0.001	0.000	0.004	0.0	0.8						
Water	0.000	0.001	0.000	0.002	0.0	0.9	0.001	0.002	8.2	0.001	0.002	9.9
Soft drinks	0.000	0.000	0.000	0.006	0.0	0.1						
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas. quiches and savoury pastries							0.000	0.001	0.8	0.000	0.001	0.9
Sandwiches and snacks												
Soups and broths												
Mixed dishes							0.000	0.001	0.6	0.000	0.001	0.8
Dairy-based desserts							0.000	0.003	5.1	0.000	0.003	6.2
Compotes and cooked fruit	0.000	0.001	0.002	0.014	1.8	1.7						
Seasonings and sauces							0.000	0.000	0.3	0.000	0.000	0.3
TOTAL	**0.007**	**0.083**	**0.041**	**0.233**	**100.0**	**100.0**	**0.010**	**0.018**	**100.0**	**0.008**	**0.016**	**100.0**

Table G11: Estimated exposure (mean and P95) in children to other pesticide residues (µg/kg bw/day) and contribution of foods (%)

Food group	Biphenyl mean (UB)	Biphenyl P95 (UB)	Biphenyl contrib (UB)	Deltamethrin mean (LB)	Deltamethrin mean (UB)	Deltamethrin P95 (UB)	Deltamethrin contrib (LB)	Deltamethrin contrib (UB)	Diquat mean (UB)	Diquat P95 (UB)	Diquat contrib (UB)	Ethoxyquin mean (LB)	Ethoxyquin mean (UB)
Bread and dried bread products				0.000	0.011	0.028	0.0	3.1				0.000	0.008
Breakfast cereals				0.000	0.003	0.014	0.0	0.8				0.000	0.002
Pasta				0.000	0.009	0.025	0.0	2.5				0.000	0.006
Rice and wheat products				0.000	0.005	0.020	0.0	1.4				0.000	0.004
Croissant-like pastries				0.000	0.004	0.016	0.0	1.0				0.000	0.003
Sweet and savoury biscuits and bars				0.000	0.005	0.020	0.0	1.4				0.000	0.002
Pastries and cakes				0.000	0.007	0.024	0.0	2.0				0.000	0.005
Milk				0.000	0.019	0.064	0.0	5.4	0.019	0.064	62.0	0.000	0.188
Ultra-fresh dairy products				0.000	0.009	0.028	0.0	2.5	0.007	0.023	22.2	0.000	0.012
Cheese				0.000	0.002	0.006	0.0	0.5					
Eggs and egg products				0.000	0.001	0.005	0.0	0.3					
Butter				0.000	0.001	0.003	0.0	0.2					
Meat				0.000	0.004	0.010	0.0	1.0					
Poultry and game				0.000	0.002	0.006	0.0	0.5					
Offal				0.000	0.000	0.002	0.0	0.0					
Delicatessen meats				0.000	0.002	0.007	0.0	0.6					
Fish				0.000	0.001	0.005	0.0	0.3					
Crustaceans and molluscs				0.000	0.000	0.002	0.0	0.0					
Vegetables (excluding potatoes)				0.000	0.041	0.115	0.0	11.6				0.000	0.016
Potatoes and potato products				0.000	0.060	0.174	0.0	17.2					
Pulses				0.000	0.004	0.043	0.0	1.0				0.000	0.000
Fruits	0.010	0.034	21.5	0.000	0.006	0.021	0.0	1.8				0.007	0.007
Dried fruits, nuts and seeds				0.000	0.000	0.004	0.0	0.1				0.000	0.000
Ice creams, sorbets and frozen desserts				0.000	0.000	0.016	0.0	0.0				0.000	0.000
Chocolate	0.001	0.004	1.4	0.000	0.001	0.007	0.0	0.4					
Sugars and sugar derivatives	0.000	0.003	0.2	0.000	0.001	0.010	0.0	0.3				0.000	0.001
Water	0.009	0.049	19.1	0.000	0.017	0.097	0.0	4.9	0.001	0.003	3.8	0.000	0.001
Soft drinks	0.024	0.076	49.4	0.000	0.048	0.148	0.0	13.7				0.000	0.000
Alcoholic beverages	0.000	0.015	0.4	0.000	0.000	0.030	0.0	0.1					
Coffee	0.000	0.029	1.0	0.000	0.001	0.058	0.0	0.3					
Other hot beverages	0.003	0.029	7.1	0.000	0.007	0.058	0.0	2.0					
Pizzas, quiches and savoury pastries				0.000	0.010	0.052	0.0	2.8	0.000	0.004	0.9		
Sandwiches and snacks				0.000	0.007	0.047	0.0	1.9					
Soups and broths				0.000	0.029	0.209	0.0	8.2					
Mixed dishes				0.000	0.025	0.090	0.0	7.1	0.001	0.005	2.0		
Dairy-based desserts				0.000	0.004	0.019	0.0	1.0	0.003	0.014	8.9		
Compotes and cooked fruit				0.000	0.005	0.031	0.0	1.3				0.001	0.005
Seasonings and sauces				0.000	0.002	0.014	0.0	0.6					
TOTAL	**0.048**	**0.126**	**100.0**	**0.000**	**0.349**	**0.683**	**100.0**	**100.0**	**0.030**	**0.081**	**100.0**	**0.008**	**0.260**

Food group	Ethoxyquin P95 (LB)	Ethoxyquin P95 (UB)	Ethoxyquin contrib (LB)	Ethoxyquin contrib (UB)	Fenpropimorph mean (UB)	Fenpropimorph P95 (UB)	Fenpropimorph contrib (UB)	Ofurace mean (UB)	Ofurace P95 (UB)	Ofurace contrib (UB)	Rotenone mean (UB)	Rotenone P95 (UB)	Rotenone contrib (UB)
Bread and dried bread products	0.000	0.020	0.0	2.9	0.008	0.020	8.7						
Breakfast cereals	0.000	0.010	0.0	0.8	0.002	0.010	2.3						
Pasta	0.000	0.018	0.0	2.4	0.006	0.018	7.2						
Rice and wheat products	0.000	0.015	0.0	1.4	0.004	0.015	4.0						
Croissant-like pastries	0.000	0.011	0.0	1.0	0.003	0.011	2.9						
Sweet and savoury biscuits and bars	0.000	0.010	0.0	0.9	0.002	0.010	2.6						
Pastries and cakes	0.000	0.017	0.0	1.9	0.005	0.017	5.6						
Milk	0.000	0.641	0.0	72.4	0.009	0.032	10.7	0.009	0.032	40.8	0.009	0.032	46.7
Ultra-fresh dairy products	0.000	0.149	0.0	4.4	0.003	0.012	3.8	0.004	0.014	18.8	0.003	0.012	16.7
Cheese								0.001	0.003	3.7			
Eggs and egg products								0.001	0.003	2.2	0.001	0.003	2.5
Butter								0.000	0.001	1.8			
Meat								0.002	0.005	7.3	0.002	0.005	8.4
Poultry and game								0.001	0.003	4.0	0.001	0.003	4.5
Offal								0.000	0.001	0.1	0.000	0.001	0.1
Delicatessen meats								0.001	0.003	4.7	0.001	0.003	5.4
Fish								0.001	0.003	2.6			
Crustaceans and molluscs								0.000	0.001	0.2			
Vegetables (excluding potatoes)	0.000	0.044	0.0	6.1	0.029	0.080	33.2						
Potatoes and potato products													
Pulses	0.000	0.008	0.0	0.0	0.000	0.008	0.1						
Fruits	0.100	0.100	91.3	2.8	0.010	0.034	11.9						
Dried fruits. nuts and seeds	0.000	0.003	0.0	0.1	0.000	0.003	0.2						
Ice creams. sorbets and frozen desserts	0.000	0.011	0.0	0.0	0.000	0.011	0.1						
Chocolate													
Sugars and sugar derivatives	0.000	0.006	0.0	0.2	0.001	0.006	0.7						
Water	0.000	0.003	0.0	0.4	0.001	0.003	1.3	0.001	0.003	5.0	0.001	0.003	5.7
Soft drinks	0.000	0.008	0.0	0.2	0.000	0.008	0.5						
Alcoholic beverages													
Coffee													
Other hot beverages													
Pizzas. quiches and savoury pastries					0.000	0.002	0.2	0.000	0.002	0.6	0.000	0.002	0.7
Sandwiches and snacks													
Soups and broths													
Mixed dishes					0.000	0.002	0.3	0.000	0.002	1.3	0.000	0.002	1.5
Dairy-based desserts								0.002	0.007	6.6	0.002	0.007	7.5
Compotes and cooked fruit	0.007	0.039	8.7	2.0	0.003	0.022	3.7						
Seasonings and sauces								0.000	0.000	0.2	0.000	0.000	0.2
TOTAL	**0.057**	**0.696**	**100.0**	**100.0**	**0.088**	**0.179**	**100.0**	**0.023**	**0.052**	**100.0**	**0.020**	**0.049**	**100.0**

Table G12: Estimated mean contamination of foods by dicarboximide residues (mg/kg FW)

Food group	TYPE	Folpet (LB)	Folpet (UB)	Iprodione (LB)	Iprodione (UB)	Vinclozolin (LB)	Vinclozolin (UB)
Bread and dried bread products	N	0	0.005	0	0.005	0	0.005
Breakfast cereals	N	0	0.005	0	0.005	0	0.005
Pasta	N	0	0.005	0	0.005	0	0.005
Rice and wheat products	N	0	0.005	0	0.005	0	0.005
Croissant-like pastries	N	0	0.005	0	0.005	0	0.005
Sweet and savoury biscuits and bars	R	0	0.008	0	0.006	0	0.005
Pastries and cakes	N	0	0.005	0	0.005	0	0.005
Milk	R	0	0.007	0	0.007	0	0.018
Ultra-fresh dairy products	R	0	0.007	0	0.007	0	0.018
Cheese	R	0	0.017	0	0.017	0	0.018
Eggs and egg products	R	0	0.017	0	0.017	0	0.018
Butter	N	0	0.017	0	0.017	0	0.018
Meat	R	0	0.017	0	0.017	0	0.018
Poultry and game	R	0	0.017	0	0.017	0	0.018
Offal	R	0	0.017	0	0.017	0	0.018
Delicatessen meats	R	0	0.017	0	0.017	0	0.018
Fish	R	0	0.007	0	0.007	0	0.018
Crustaceans and molluscs	R	0	0.007	0	0.007	0	0.018
Vegetables (excluding potatoes)	R	0	0.017	0.040	0.048	0.0008	0.035
Potatoes and potato products	R	0	0.090	0	0.010	0	0.006
Pulses	R	0	0.006	0	0.008	0	0.005
Fruits	R	0.0005	0.004	0.027	0.030	0	0.005
Dried fruits, nuts and seeds	N	0	0.005	0	0.005	0	0.005
Chocolate	N	0	0.010	0	0.010	0	0.005
Sugars and sugar derivatives	N	0	0.008	0	0.008	0	0.005
Water	R	0	0.0001	0	0.00005	0	0.0001
Soft drinks	N	0	0.010	0	0.010	0	0.005
Alcoholic beverages	N	0	0.010	0.0025	0.011	0	0.005
Coffee	R	0	0.010	0	0.010	0	0.005
Other hot beverages	R	0	0.010	0	0.010	0	0.005
Pizzas, quiches and savoury pastries	N	0	0.007	0	0.008	0	0.011
Sandwiches and snacks	R	0	0.007	0.007	0.016	0	0.005
Soups and broths	R	0	0.007	0	0.010	0	0.005
Mixed dishes	R	0	0.008	0.00005	0.010	0	0.007
Dairy-based desserts	R	0	0.008	0	0.008	0	0.016
Compotes and cooked fruit	N	0	0.005	0	0.005	0	0.005
Seasonings and sauces	N	0	0.010	0	0.012	0	0.009

Table G13: Estimated exposure (mean and P95) in adults to dicarboximides (µg/kg bw/day) and contribution of foods (%)

Food group	Folpet mean (LB)	Folpet mean (UB)	Folpet P95 (UB)	Folpet contrib (LB)	Folpet contrib (UB)	Iprodione mean (LB)	Iprodione mean (UB)	Iprodione P95 (LB)	Iprodione P95 (UB)	Iprodione contrib (LB)	Iprodione contrib (UB)	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.008	0.019	0.0	2.8	0.000	0.008	0.000	0.019	0.0	1.8	0.000	0.008	0.000	0.019	0.0	3.2
Breakfast cereals	0.000	0.000	0.006	0.0	0.1	0.000	0.000	0.000	0.006	0.0	0.1	0.000	0.000	0.000	0.006	0.0	0.1
Pasta	0.000	0.003	0.009	0.0	1.0	0.000	0.003	0.000	0.009	0.0	0.6	0.000	0.003	0.000	0.009	0.0	1.1
Rice and wheat products	0.000	0.002	0.008	0.0	0.6	0.000	0.002	0.000	0.008	0.0	0.4	0.000	0.002	0.000	0.008	0.0	0.7
Croissant-like pastries	0.000	0.001	0.005	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.2	0.000	0.001	0.000	0.005	0.0	0.3
Sweet and savoury biscuits and bars	0.000	0.001	0.005	0.0	0.3	0.000	0.001	0.000	0.004	0.0	0.2	0.000	0.001	0.000	0.004	0.0	0.2
Pastries and cakes	0.000	0.002	0.008	0.0	0.8	0.000	0.002	0.000	0.008	0.0	0.5	0.000	0.002	0.000	0.008	0.0	0.9
Milk	0.000	0.008	0.045	0.0	2.9	0.000	0.008	0.000	0.045	0.0	1.9	0.000	0.022	0.000	0.119	0.0	8.7
Ultra-fresh dairy products	0.000	0.010	0.031	0.0	3.3	0.000	0.010	0.000	0.031	0.0	2.2	0.000	0.021	0.000	0.066	0.0	8.2
Cheese	0.000	0.007	0.018	0.0	2.3	0.000	0.007	0.000	0.018	0.0	1.5	0.000	0.007	0.000	0.020	0.0	2.8
Eggs and egg products	0.000	0.004	0.013	0.0	1.2	0.000	0.004	0.000	0.013	0.0	0.8	0.000	0.004	0.000	0.015	0.0	1.5
Butter	0.000	0.003	0.008	0.0	0.9	0.000	0.003	0.000	0.008	0.0	0.6	0.000	0.003	0.000	0.009	0.0	1.1
Meat	0.000	0.011	0.028	0.0	3.8	0.000	0.011	0.000	0.028	0.0	2.5	0.000	0.012	0.000	0.030	0.0	4.7
Poultry and game	0.000	0.007	0.025	0.0	2.2	0.000	0.007	0.000	0.025	0.0	1.5	0.000	0.007	0.000	0.027	0.0	2.7
Offal	0.000	0.000	0.008	0.0	0.1	0.000	0.000	0.000	0.008	0.0	0.1	0.000	0.000	0.000	0.009	0.0	0.1
Delicatessen meats	0.000	0.007	0.019	0.0	2.3	0.000	0.007	0.000	0.019	0.0	1.5	0.000	0.007	0.000	0.020	0.0	2.8
Fish	0.000	0.001	0.005	0.0	0.4	0.000	0.001	0.000	0.005	0.0	0.3	0.000	0.003	0.000	0.014	0.0	1.3
Crustaceans and molluscs	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.001	0.000	0.009	0.0	0.4
Vegetables (excluding potatoes)	0.000	0.026	0.066	0.0	9.1	0.163	0.174	0.682	0.695	79.0	39.4	0.005	0.058	0.025	0.146	100.0	22.8
Potatoes and potato products	0.000	0.049	0.201	0.0	17.0	0.000	0.009	0.000	0.024	0.0	2.0	0.000	0.005	0.000	0.013	0.0	1.9
Pulses	0.000	0.001	0.007	0.0	0.2	0.000	0.001	0.000	0.010	0.0	0.2	0.000	0.000	0.000	0.005	0.0	0.2
Fruits	0.001	0.007	0.024	100.0	2.4	0.029	0.037	0.176	0.187	14.1	8.4	0.000	0.010	0.000	0.031	0.0	3.9
Dried fruits, nuts and seeds	0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.001	0.004	0.0	0.2	0.000	0.001	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.1
Sugars and sugar derivatives	0.000	0.001	0.005	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.2	0.000	0.001	0.000	0.005	0.0	0.3
Water	0.000	0.025	0.143	0.0	8.5	0.000	0.025	0.000	0.143	0.0	5.6	0.000	0.013	0.000	0.071	0.0	5.1
Soft drinks	0.000	0.017	0.091	0.0	5.9	0.000	0.017	0.000	0.091	0.0	3.9	0.000	0.009	0.000	0.045	0.0	3.4
Alcoholic beverages	0.000	0.019	0.087	0.0	6.5	0.013	0.025	0.066	0.117	6.3	5.7	0.000	0.009	0.000	0.043	0.0	3.7
Coffee	0.000	0.033	0.120	0.0	11.2	0.000	0.033	0.000	0.120	0.0	7.4	0.000	0.016	0.000	0.060	0.0	6.4
Other hot beverages	0.000	0.020	0.135	0.0	7.0	0.000	0.020	0.000	0.135	0.0	4.6	0.000	0.010	0.000	0.068	0.0	4.0
Pizzas, quiches and savoury pastries	0.000	0.002	0.011	0.0	0.6	0.000	0.002	0.000	0.015	0.0	0.6	0.000	0.002	0.000	0.013	0.0	0.7
Sandwiches and snacks	0.000	0.001	0.012	0.0	0.5	0.001	0.003	0.034	0.042	0.5	0.7	0.000	0.001	0.000	0.009	0.0	0.4
Soups and broths	0.000	0.007	0.044	0.0	2.5	0.000	0.010	0.000	0.063	0.0	2.3	0.000	0.005	0.000	0.032	0.0	2.1
Mixed dishes	0.000	0.004	0.018	0.0	1.3	0.000	0.005	0.000	0.025	0.0	1.2	0.000	0.003	0.000	0.016	0.0	1.3
Dairy-based desserts	0.000	0.003	0.017	0.0	0.9	0.000	0.003	0.000	0.018	0.0	0.6	0.000	0.005	0.000	0.031	0.0	2.1
Compotes and cooked fruit	0.000	0.001	0.009	0.0	0.4	0.000	0.001	0.000	0.009	0.0	0.2	0.000	0.001	0.000	0.009	0.0	0.4
Seasonings and sauces	0.000	0.001	0.003	0.0	0.2	0.000	0.001	0.000	0.004	0.0	0.2	0.000	0.001	0.000	0.003	0.0	0.2
TOTAL	**0.001**	**0.291**	**0.511**	**100.0**	**100.0**	**0.206**	**0.442**	**0.762**	**1.048**	**100.0**	**100.0**	**0.005**	**0.253**	**0.025**	**0.411**	**100.0**	**100.0**

Table G14: Estimated exposure (mean and P95) in children to dicarboximides (µg/kg bw/day) and contribution of foods (%)

Food group	Folpet mean (LB)	Folpet mean (UB)	Folpet P95 (UB)	Folpet contrib (LB)	Folpet contrib (UB)	Iprodione mean (LB)	Iprodione mean (UB)	Iprodione P95 (LB)	Iprodione P95 (UB)	Iprodione contrib (LB)	Iprodione contrib (UB)	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.008	0.020	0.000	1.846	0.000	0.008	0.000	0.020	0.000	1.656	0.000	0.008	0.000	0.020	0.000	1.871
Breakfast cereals	0.000	0.002	0.010	0.000	0.492	0.000	0.002	0.000	0.010	0.000	0.441	0.000	0.002	0.000	0.010	0.000	0.498
Pasta	0.000	0.006	0.018	0.000	1.522	0.000	0.006	0.000	0.018	0.000	1.365	0.000	0.006	0.000	0.018	0.000	1.542
Rice and wheat products	0.000	0.004	0.015	0.000	0.855	0.000	0.004	0.000	0.015	0.000	0.767	0.000	0.004	0.000	0.015	0.000	0.866
Croissant-like pastries	0.000	0.003	0.011	0.000	0.609	0.000	0.003	0.000	0.011	0.000	0.546	0.000	0.003	0.000	0.011	0.000	0.617
Sweet and savoury biscuits and bars	0.000	0.003	0.012	0.000	0.703	0.000	0.003	0.000	0.010	0.000	0.576	0.000	0.002	0.000	0.010	0.000	0.609
Pastries and cakes	0.000	0.005	0.017	0.000	1.197	0.000	0.005	0.000	0.017	0.000	1.073	0.000	0.005	0.000	0.017	0.000	1.213
Milk	0.000	0.038	0.128	0.000	9.098	0.000	0.038	0.000	0.128	0.000	8.161	0.000	0.100	0.000	0.340	0.000	24.433
Ultra-fresh dairy products	0.000	0.023	0.077	0.000	5.577	0.000	0.023	0.000	0.077	0.000	5.002	0.000	0.046	0.000	0.146	0.000	11.235
Cheese	0.000	0.008	0.028	0.000	2.037	0.000	0.008	0.000	0.028	0.000	1.827	0.000	0.009	0.000	0.030	0.000	2.188
Eggs and egg products	0.000	0.005	0.027	0.000	1.229	0.000	0.005	0.000	0.027	0.000	1.102	0.000	0.006	0.000	0.029	0.000	1.370
Butter	0.000	0.004	0.014	0.000	1.030	0.000	0.004	0.000	0.014	0.000	0.924	0.000	0.005	0.000	0.015	0.000	1.106
Meat	0.000	0.018	0.048	0.000	4.371	0.000	0.018	0.000	0.048	0.000	3.921	0.000	0.019	0.000	0.050	0.000	4.696
Poultry and game	0.000	0.009	0.032	0.000	2.211	0.000	0.009	0.000	0.032	0.000	1.983	0.000	0.010	0.000	0.033	0.000	2.375
Offal	0.000	0.000	0.012	0.000	0.056	0.000	0.000	0.000	0.012	0.000	0.051	0.000	0.000	0.000	0.013	0.000	0.061
Delicatessen meats	0.000	0.011	0.035	0.000	2.624	0.000	0.011	0.000	0.035	0.000	2.354	0.000	0.012	0.000	0.037	0.000	2.819
Fish	0.000	0.002	0.010	0.000	0.586	0.000	0.002	0.000	0.010	0.000	0.525	0.000	0.006	0.000	0.027	0.000	1.572
Crustaceans and molluscs	0.000	0.000	0.004	0.000	0.052	0.000	0.000	0.000	0.004	0.000	0.046	0.000	0.001	0.000	0.009	0.000	0.139
Vegetables (excluding potatoes)	0.000	0.031	0.087	0.000	7.378	0.130	0.144	0.631	0.645	83.429	31.143	0.006	0.069	0.038	0.198	100.000	16.805
Potatoes and potato products	0.000	0.117	0.432	0.000	28.169	0.000	0.016	0.000	0.043	0.000	3.515	0.000	0.009	0.000	0.023	0.000	2.159
Pulses	0.000	0.001	0.013	0.000	0.255	0.000	0.001	0.000	0.018	0.000	0.316	0.000	0.001	0.000	0.009	0.000	0.192
Fruits	0.002	0.008	0.029	100.000	2.007	0.023	0.032	0.137	0.143	14.904	6.921	0.000	0.010	0.000	0.034	0.000	2.568
Dried fruits, nuts and seeds	0.000	0.000	0.003	0.000	0.035	0.000	0.000	0.000	0.003	0.000	0.031	0.000	0.000	0.000	0.003	0.000	0.035
Ice creams, sorbets and frozen desserts	0.000	0.000	0.011	0.000	0.026	0.000	0.000	0.000	0.011	0.000	0.024	0.000	0.000	0.000	0.011	0.000	0.027
Chocolate	0.000	0.001	0.007	0.000	0.313	0.000	0.001	0.000	0.007	0.000	0.281	0.000	0.001	0.000	0.004	0.000	0.159
Sugars and sugar derivatives	0.000	0.001	0.007	0.000	0.182	0.000	0.001	0.000	0.007	0.000	0.163	0.000	0.001	0.000	0.007	0.000	0.164
Water	0.000	0.017	0.097	0.000	4.129	0.000	0.017	0.000	0.097	0.000	3.704	0.000	0.009	0.000	0.049	0.000	2.234
Soft drinks	0.000	0.048	0.147	0.000	11.517	0.000	0.048	0.000	0.147	0.000	10.330	0.000	0.024	0.000	0.074	0.000	5.889
Alcoholic beverages	0.000	0.000	0.030	0.000	0.087	0.000	0.000	0.012	0.030	0.089	0.093	0.000	0.000	0.000	0.015	0.000	0.044
Coffee	0.000	0.001	0.058	0.000	0.234	0.000	0.001	0.000	0.058	0.000	0.210	0.000	0.000	0.000	0.029	0.000	0.118
Other hot beverages	0.000	0.007	0.058	0.000	1.646	0.000	0.007	0.000	0.058	0.000	1.476	0.000	0.003	0.000	0.029	0.000	0.834
Pizzas, quiches and savoury pastries	0.000	0.003	0.017	0.000	0.764	0.000	0.004	0.000	0.023	0.000	0.928	0.000	0.003	0.000	0.019	0.000	0.812
Sandwiches and snacks	0.000	0.002	0.013	0.000	0.460	0.002	0.005	0.063	0.066	1.526	1.077	0.000	0.001	0.000	0.009	0.000	0.333
Soups and broths	0.000	0.008	0.058	0.000	1.949	0.000	0.012	0.000	0.084	0.000	2.498	0.000	0.006	0.000	0.042	0.000	1.411
Mixed dishes	0.000	0.008	0.029	0.000	1.985	0.000	0.011	0.000	0.039	0.051	2.417	0.000	0.008	0.000	0.030	0.000	2.017
Dairy-based desserts	0.000	0.007	0.040	0.000	1.740	0.000	0.007	0.000	0.042	0.000	1.577	0.000	0.016	0.000	0.079	0.000	3.978
Compotes and cooked fruit	0.000	0.003	0.022	0.000	0.781	0.000	0.003	0.000	0.022	0.000	0.701	0.000	0.003	0.000	0.022	0.000	0.792
Seasonings and sauces	0.000	0.001	0.006	0.000	0.248	0.000	0.001	0.000	0.007	0.000	0.276	0.000	0.001	0.000	0.005	0.000	0.221
TOTAL	**0.002**	**0.414**	**0.864**	**100.0**	**100.0**	**0.156**	**0.461**	**0.652**	**1.078**	**100.0**	**100.0**	**0.006**	**0.408**	**0.036**	**0.843**	**100.0**	**100.0**

Table G15: Estimated mean contamination of foods by dithiocarbamate residues (mg/kg FW)

Food group	Type	Dithiocarbamates (LB)	Dithiocarbamates (UB)
Bread and dried bread products	N	0	0.200
Breakfast cereals	N	0	0.200
Pasta	N	0	0.200
Rice and wheat products	N	0	0.200
Croissant-like pastries	N	0	0.200
Sweet and savoury biscuits and bars	R	0	0.164
Pastries and cakes	N	0	0.200
Milk	R	0	0.003
Ultra-fresh dairy products	R	0	0.003
Cheese	R		
Eggs and egg products	R		
Butter	N		
Meat	R		
Poultry and game	R		
Offal	R		
Delicatessen meats	R		
Fish	R		
Crustaceans and molluscs	R		
Vegetables (excluding potatoes)	R	0	0.062
Potatoes and potato products	R	0	0.087
Pulses	R	0	0.123
Fruits	R	0	0.200
Dried fruits, nuts and seeds	N		
Chocolate	N		
Sugars and sugar derivatives	N		
Water	R	0	0.0001
Soft drinks	N	0	0.200
Alcoholic beverages	N	0	0.200
Coffee	R		
Other hot beverages	R		
Pizzas, quiches and savoury pastries	N	0	0.003
Sandwiches and snacks	R		
Soups and broths	R	0	0.028
Mixed dishes	R	0	0.003
Dairy-based desserts	R	0	0.007
Compotes and cooked fruit	N	0	0.200
Seasonings and sauces	N	0	0.025

Table G16: Estimated exposure (mean and P95) in adults to dithiocarbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Dithiocarbamates mean (UB)	Dithiocarbamates P95 (UB)	Dithiocarbamates contrib (UB)
Bread and dried bread products	0.321	0.754	19.8
Breakfast cereals	0.011	0.250	0.6
Pasta	0.111	0.351	6.8
Rice and wheat products	0.073	0.306	4.5
Croissant-like pastries	0.014	0.180	0.9
Sweet and savoury biscuits and bars	0.007	0.091	0.4
Pastries and cakes	0.017	0.163	1.1
Milk	0.004	0.022	0.3
Ultra-fresh dairy products	0.003	0.011	0.2
Cheese			
Eggs and egg products			
Butter			
Meat			
Poultry and game			
Offal			
Delicatessen meats			
Fish			
Crustaceans and molluscs			
Vegetables (excluding potatoes)	0.109	0.271	6.7
Potatoes and potato products	0.072	0.191	4.4
Pulses	0.007	0.123	0.4
Fruits	0.393	1.239	24.1
Dried fruits, nuts and seeds			
Ice creams, sorbets and frozen desserts			
Chocolate			
Sugars and sugar derivatives			
Water	0.001	0.002	0.0
Soft drinks	0.155	0.886	9.6
Alcoholic beverages	0.261	1.345	16.1
Coffee			
Other hot beverages			
Pizzas, quiches and savoury pastries	0.000	0.003	0.0
Sandwiches and snacks			
Soups and broths	0.030	0.190	1.8
Mixed dishes	0.000	0.002	0.0
Dairy-based desserts	0.002	0.011	0.1
Compotes and cooked fruit	0.034	0.377	2.1
Seasonings and sauces	0.001	0.008	0.0
TOTAL	**1.626**	**2.944**	**100.0**

Table G17: Estimated exposure (mean and P95) in children to dithiocarbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Dithiocarbamates mean (UB)	Dithiocarbamates P95 (UB)	Dithiocarbamates contrib (UB)
Bread and dried bread products	0.306	0.794	13.4
Breakfast cereals	0.081	0.398	3.6
Pasta	0.252	0.714	11.0
Rice and wheat products	0.142	0.585	6.2
Croissant-like pastries	0.043	0.344	1.9
Sweet and savoury biscuits and bars	0.023	0.184	1.0
Pastries and cakes	0.050	0.381	2.2
Milk	0.019	0.064	0.8
Ultra-fresh dairy products	0.007	0.023	0.3
Cheese			
Eggs and egg products			
Butter			
Meat			
Poultry and game			
Offal			
Delicatessen meats			
Fish			
Crustaceans and molluscs			
Vegetables (excluding potatoes)	0.149	0.419	6.5
Potatoes and potato products	0.137	0.364	6.0
Pulses	0.011	0.179	0.5
Fruits	0.412	1.342	18.0
Dried fruits, nuts and seeds			
Ice creams, sorbets and frozen desserts			
Chocolate			
Sugars and sugar derivatives			
Water	0.001	0.003	0.1
Soft drinks	0.499	1.912	21.9
Alcoholic beverages	0.003	0.628	0.1
Coffee			
Other hot beverages			
Pizzas, quiches and savoury pastries	0.000	0.004	0.0
Sandwiches and snacks			
Soups and broths	0.033	0.255	1.4
Mixed dishes	0.001	0.005	0.0
Dairy-based desserts	0.005	0.028	0.2
Compotes and cooked fruit	0.108	0.829	4.7
Seasonings and sauces	0.001	0.014	0.1
TOTAL	**2.283**	**4.734**	**100.0**

Table G18: Estimated mean contamination of foods by imidazole residues (mg/kg FW)

Food group	Type	Imazalil (LB)	Imazalil (UB)	Prochloraz (LB)	Prochloraz (UB)
Bread and dried bread products	N	0	0.100	0	0.005
Breakfast cereals	N	0	0.100	0	0.005
Pasta	N	0	0.100	0	0.005
Rice and wheat products	N	0	0.100	0	0.005
Croissant-like pastries	N	0	0.100	0	0.005
Sweet and savoury biscuits and bars	R	0	0.084	0	0.005
Pastries and cakes	N	0	0.100	0	0.005
Milk	R	0	0.002	0	0.002
Ultra-fresh dairy products	R	0	0.002	0	0.002
Cheese	R				
Eggs and egg products	R	0	0.002		
Butter	N				
Meat	R	0	0.003		
Poultry and game	R	0	0.003		
Offal	R	0	0.003		
Delicatessen meats	R	0	0.003		
Fish	R			0	0.002
Crustaceans and molluscs	R	0.002	0.005	0	0.002
Vegetables (excluding potatoes)	R	0	0.029	0	0.009
Potatoes and potato products	R	0.055	0.072	0	0.007
Pulses	R	0	0.055	0	0.006
Fruits	R	0.024	0.042	0	0.010
Dried fruits, nuts and seeds	N	0	0.100	0	0.005
Ice creams, sorbets and frozen desserts	N	0	0.020	0	0.020
Chocolate	N	0	0.060	0	0.013
Sugars and sugar derivatives	R	0	0.00004	0	0.00006
Water	N	0.005	0.031	0	0.019
Soft drinks	N	0	0.020	0	0.020
Alcoholic beverages	R	0	0.020	0	0.020
Coffee	R	0	0.020	0	0.020
Other hot beverages	N	0	0.006	0	0.004
Pizzas, quiches and savoury pastries	R	0	0.010	0	0.006
Sandwiches and snacks	R	0	0.010	0	0.006
Soups and broths	R	0	0.009	0	0.006
Mixed dishes	R	0.0002	0.003	0	0.002
Dairy-based desserts	N	0	0.100	0	0.005
Compotes and cooked fruit	N	0	0.007	0	0.006
Seasonings and sauces	N	0	0.007	0	0.006

Table G19: Estimated exposure (mean and P95) in adults to imidazoles (µg/kg bw/day) and contribution of foods (%)

Food group	Imazalil mean (LB)	Imazalil mean (UB)	Imazalil P95 (LB)	Imazalil P95 (UB)	Imazalil contrib (LB)	Imazalil contrib (UB)	Prochloraz mean (UB)	Prochloraz P95 (UB)	Prochloraz contrib (UB)
Bread and dried bread products	0.000	0.161	0.000	0.377	0.0	19.1	0.008	0.019	2.7
Breakfast cereals	0.000	0.005	0.000	0.125	0.0	0.6	0.000	0.006	0.1
Pasta	0.000	0.056	0.000	0.176	0.0	6.6	0.003	0.009	0.9
Rice and wheat products	0.000	0.037	0.000	0.153	0.0	4.4	0.002	0.008	0.6
Croissant-like pastries	0.000	0.015	0.000	0.108	0.0	1.8	0.001	0.005	0.2
Sweet and savoury biscuits and bars	0.000	0.011	0.000	0.077	0.0	1.3	0.001	0.004	0.2
Pastries and cakes	0.000	0.044	0.000	0.166	0.0	5.2	0.002	0.008	0.7
Milk	0.000	0.002	0.000	0.011	0.0	0.2	0.002	0.011	0.7
Ultra-fresh dairy products	0.000	0.002	0.000	0.006	0.0	0.2	0.002	0.006	0.5
Cheese									
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.0			
Butter									
Meat	0.000	0.002	0.000	0.005	0.0	0.2			
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.2			
Offal	0.000	0.000	0.000	0.002	0.0	0.0			
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	0.2			
Fish							0.000	0.001	0.1
Crustaceans and molluscs	0.000	0.000	0.001	0.003	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.051	0.000	0.133	0.0	6.1	0.014	0.034	4.6
Potatoes and potato products	0.065	0.078	0.529	0.539	58.3	9.3	0.006	0.015	1.9
Pulses	0.000	0.002	0.000	0.056	0.0	0.3	0.001	0.006	0.2
Fruits	0.035	0.072	0.215	0.281	31.5	8.6	0.020	0.062	6.5
Dried fruits, nuts and seeds	0.000	0.004	0.000	0.046	0.0	0.5	0.000	0.002	0.1
Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.044	0.0	0.1	0.000	0.002	0.0
Chocolate	0.000	0.001	0.000	0.009	0.0	0.1	0.001	0.009	0.3
Sugars and sugar derivatives	0.000	0.014	0.000	0.083	0.0	1.7	0.001	0.007	0.4
Water	0.000	0.049	0.000	0.286	0.0	5.8	0.049	0.286	16.1
Soft drinks	0.011	0.046	0.123	0.245	10.2	5.5	0.034	0.182	11.3
Alcoholic beverages	0.000	0.038	0.000	0.173	0.0	4.5	0.038	0.173	12.4
Coffee	0.000	0.065	0.000	0.241	0.0	7.8	0.065	0.241	21.5
Other hot beverages	0.000	0.041	0.000	0.271	0.0	4.8	0.041	0.271	13.4
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.015	0.0	0.3	0.001	0.009	0.4
Sandwiches and snacks	0.000	0.002	0.000	0.018	0.0	0.2	0.001	0.011	0.4
Soups and broths	0.000	0.010	0.000	0.063	0.0	1.2	0.006	0.038	2.1
Mixed dishes	0.000	0.005	0.000	0.025	0.0	0.6	0.003	0.015	1.1
Dairy-based desserts	0.000	0.001	0.000	0.005	0.0	0.1	0.001	0.004	0.2
Compotes and cooked fruit	0.000	0.021	0.000	0.179	0.0	2.4	0.001	0.009	0.3
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.002	0.1
TOTAL	**0.112**	**0.840**	**0.565**	**1.518**	**100.0**	**100.0**	**0.303**	**0.606**	**100.0**

Table G20: Estimated exposure (mean and P95) in children to Imidazoles (µg/kg bw/day) and contribution of foods (%)

Food group	Imazalil mean (LB)	Imazalil mean (UB)	Imazalil P95 (LB)	Imazalil P95 (UB)	Imazalil contrib (LB)	Imazalil contrib (UB)	Prochloraz mean (UB)	Prochloraz P95 (UB)	Prochloraz contrib (UB)
Bread and dried bread products	0.000	0.153	0.000	0.397	0.0	12.8	0.008	0.020	2.9
Breakfast cereals	0.000	0.041	0.000	0.199	0.0	3.4	0.002	0.010	0.8
Pasta	0.000	0.126	0.000	0.357	0.0	10.5	0.006	0.018	2.4
Rice and wheat products	0.000	0.071	0.000	0.293	0.0	5.9	0.004	0.015	1.3
Croissant-like pastries	0.000	0.050	0.000	0.224	0.0	4.2	0.003	0.011	1.0
Sweet and savoury biscuits and bars	0.000	0.047	0.000	0.198	0.0	3.9	0.003	0.010	1.0
Pastries and cakes	0.000	0.099	0.000	0.343	0.0	8.3	0.005	0.017	1.9
Milk	0.000	0.009	0.000	0.032	0.0	0.8	0.009	0.032	3.6
Ultra-fresh dairy products	0.000	0.003	0.000	0.012	0.0	0.3	0.003	0.012	1.3
Cheese									
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.0			
Butter									
Meat	0.000	0.003	0.000	0.009	0.0	0.3			
Poultry and game	0.000	0.002	0.000	0.006	0.0	0.2			
Offal	0.000	0.000	0.000	0.002	0.0	0.0			
Delicatessen meats	0.000	0.002	0.000	0.007	0.0	0.2			
Fish							0.001	0.003	0.2
Crustaceans and molluscs	0.000	0.000	0.002	0.005	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.070	0.000	0.202	0.0	5.9	0.017	0.047	6.4
Potatoes and potato products	0.129	0.153	0.977	1.008	69.0	12.8	0.011	0.029	4.2
Pulses	0.000	0.004	0.000	0.078	0.0	0.3	0.001	0.011	0.3
Fruits	0.031	0.071	0.199	0.275	16.8	6.0	0.021	0.067	7.9
Dried fruits, nuts and seeds	0.000	0.003	0.000	0.050	0.0	0.2	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.002	0.000	0.226	0.0	0.2	0.000	0.011	0.0
Chocolate	0.000	0.003	0.000	0.015	0.0	0.2	0.003	0.015	1.0
Sugars and sugar derivatives	0.000	0.012	0.000	0.124	0.0	1.0	0.001	0.009	0.3
Water	0.000	0.033	0.000	0.194	0.0	2.8	0.033	0.194	12.6
Soft drinks	0.027	0.126	0.167	0.425	14.2	10.5	0.095	0.295	36.1
Alcoholic beverages	0.000	0.001	0.000	0.060	0.0	0.1	0.001	0.060	0.3
Coffee	0.000	0.002	0.000	0.117	0.0	0.2	0.002	0.117	0.7
Other hot beverages	0.000	0.014	0.000	0.115	0.0	1.1	0.014	0.115	5.2
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.021	0.0	0.3	0.002	0.013	0.9
Sandwiches and snacks	0.000	0.003	0.000	0.019	0.0	0.2	0.002	0.011	0.6
Soups and broths	0.000	0.012	0.000	0.084	0.0	1.0	0.007	0.050	2.6
Mixed dishes	0.000	0.010	0.000	0.039	0.0	0.9	0.006	0.023	2.4
Dairy-based desserts	0.000	0.002	0.000	0.009	0.0	0.1	0.001	0.008	0.6
Compotes and cooked fruit	0.000	0.065	0.000	0.446	0.0	5.4	0.003	0.022	1.2
Seasonings and sauces	0.000	0.001	0.000	0.006	0.0	0.1	0.001	0.004	0.2
TOTAL	**0.187**	**1.196**	**1.086**	**2.580**	**100.0**	**100.0**	**0.263**	**0.590**	**100.0**

Table G21: Estimated mean contamination of foods by organochlorine residues (mg/kg FW)

Food group	Type	Chlorothalonil (LB)	Chlorothalonil (UB)	Dicofol (LB)	Dicofol (UB)	Endosulfan (LB)	Endosulfan (UB)
Bread and dried bread products	N	0	0.003	0	0.007	0	0.009
Breakfast cereals	N	0	0.003	0	0.007	0	0.009
Pasta	N	0	0.003	0	0.007	0	0.009
Rice and wheat products	N	0	0.003	0	0.007	0	0.009
Croissant-like pastries	N	0	0.003	0	0.007	0	0.009
Sweet and savoury biscuits and bars	R	0	0.006	0	0.007	0	0.013
Pastries and cakes	N	0	0.003	0	0.007	0	0.009
Milk	R	0	0.001	0	0.002	0	0.003
Ultra-fresh dairy products	R	0	0.002	0	0.002	0	0.003
Cheese	R	0	0.001	0	0.003	0	0.003
Eggs and egg products	R	0	0.001	0	0.003	0	0.003
Butter	N	0	0.001	0	0.003	0	0.003
Meat	R	0	0.003	0	0.003	0	0.003
Poultry and game	R	0	0.003	0	0.003	0	0.003
Offal	R	0	0.003	0	0.003	0	0.003
Delicatessen meats	R	0	0.003	0	0.003	0	0.003
Fish	R	0	0.001	0	0.002	0	0.003
Crustaceans and molluscs	R	0	0.001	0	0.002	0	0.003
Vegetables (excluding potatoes)	R	0.0005	0.006	0	0.020	0	0.059
Potatoes and potato products	R	0	0.021	0	0.010	0	0.045
Pulses	R	0	0.004	0	0.009	0	0.029
Fruits	R	0	0.003	0	0.010	0.0008	0.010
Dried fruits, nuts and seeds	N	0	0.003	0	0.007	0	0.009
Chocolate	N	0	0.005	0	0.010	0	0.010
Sugars and sugar derivatives	N	0	0.004	0	0.009	0	0.009
Water	R	0	0.0001	0	0.0001	0	0.00004
Soft drinks	N	0	0.005	0	0.010	0	0.010
Alcoholic beverages	N	0	0.005	0	0.010	0	0.010
Coffee	R	0	0.005	0	0.010	0	0.010
Other hot beverages	R	0	0.005	0	0.010	0	0.010
Pizzas, quiches and savoury pastries	N	0	0.003	0	0.006	0	0.026
Sandwiches and snacks	R	0	0.005	0	0.010	0	0.050
Soups and broths	R	0	0.005	0	0.010	0	0.050
Mixed dishes	R	0	0.005	0	0.008	0	0.042
Dairy-based desserts	R	0	0.002	0	0.003	0	0.008
Compotes and cooked fruit	N	0	0.003	0	0.007	0	0.009
Seasonings and sauces	N	0	0.004	0	0.008	0	0.034

Table G22: Estimated exposure (mean and P95) in adults to organochlorines (µg/kg bw/day) and contribution of foods (%)

Food group	Chlorothalonil mean (LB)	Chlorothalonil mean (UB)	Chlorothalonil P95 (LB)	Chlorothalonil P95 (UB)	Chlorothalonil contrib (LB)	Chlorothalonil contrib (UB)	Dicofol mean (UB)	Dicofol P95 (UB)	Dicofol contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.011	0.0	4.0	0.011	0.026	4.8
Breakfast cereals	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.009	0.2
Pasta	0.000	0.002	0.000	0.005	0.0	1.4	0.004	0.012	1.7
Rice and wheat products	0.000	0.001	0.000	0.005	0.0	0.9	0.003	0.011	1.1
Croissant-like pastries	0.000	0.000	0.000	0.003	0.0	0.4	0.001	0.008	0.4
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.004	0.0	0.4	0.001	0.006	0.4
Pastries and cakes	0.000	0.001	0.000	0.005	0.0	1.1	0.003	0.012	1.3
Milk	0.000	0.001	0.000	0.007	0.0	1.0	0.002	0.011	0.9
Ultra-fresh dairy products	0.000	0.002	0.000	0.006	0.0	1.5	0.002	0.007	1.0
Cheese	0.000	0.000	0.000	0.001	0.0	0.3	0.001	0.004	0.6
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.3
Butter	0.000	0.000	0.000	0.000	0.0	0.1	0.001	0.002	0.2
Meat	0.000	0.002	0.000	0.006	0.0	1.8	0.002	0.006	1.0
Poultry and game	0.000	0.001	0.000	0.005	0.0	1.1	0.001	0.005	0.6
Offal	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.002	0.0
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	1.1	0.001	0.004	0.6
Fish	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.1
Crustaceans and molluscs	0.000	0.000	0.000	0.000	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.002	0.010	0.008	0.026	100.0	8.3	0.032	0.079	13.5
Potatoes and potato products	0.000	0.016	0.000	0.065	0.0	13.3	0.009	0.024	3.8
Pulses	0.000	0.000	0.000	0.005	0.0	0.3	0.001	0.010	0.4
Fruits	0.000	0.006	0.000	0.019	0.0	4.9	0.021	0.064	8.7
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.0
Chocolate	0.000	0.000	0.000	0.002	0.0	0.2	0.001	0.004	0.2
Sugars and sugar derivatives	0.000	0.001	0.000	0.003	0.0	0.4	0.001	0.007	0.5
Water	0.000	0.013	0.000	0.071	0.0	10.5	0.025	0.143	10.5
Soft drinks	0.000	0.009	0.000	0.045	0.0	7.1	0.017	0.091	7.3
Alcoholic beverages	0.000	0.009	0.000	0.043	0.0	7.7	0.019	0.087	8.0
Coffee	0.000	0.016	0.000	0.060	0.0	13.5	0.033	0.120	13.9
Other hot beverages	0.000	0.010	0.000	0.068	0.0	8.4	0.020	0.135	8.7
Pizzas, quiches and savoury pastries	0.000	0.001	0.000	0.008	0.0	0.9	0.002	0.015	0.9
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.8	0.002	0.018	0.8
Soups and broths	0.000	0.005	0.000	0.032	0.0	4.3	0.010	0.063	4.4
Mixed dishes	0.000	0.003	0.000	0.013	0.0	2.2	0.005	0.025	2.2
Dairy-based desserts	0.000	0.001	0.000	0.004	0.0	0.5	0.001	0.006	0.3
Compotes and cooked fruit	0.000	0.001	0.000	0.005	0.0	0.5	0.001	0.013	0.6
Seasonings and sauces	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.003	0.2
TOTAL	**0.002**	**0.121**	**0.008**	**0.219**	**100.0**	**100.0**	**0.235**	**0.407**	**100.0**

Food group	Dicofol contrib (UB)	Endosulfan mean (LB)	Endosulfan mean (UB)	Endosulfan P95 (LB)	Endosulfan P95 (UB)	Endosulfan contrib (LB)	Endosulfan contrib (UB)
Bread and dried bread products	4.8	0.000	0.014	0.000	0.033	0.0	3.4
Breakfast cereals	0.2	0.000	0.000	0.000	0.011	0.0	0.1
Pasta	1.7	0.000	0.005	0.000	0.016	0.0	1.2
Rice and wheat products	1.1	0.000	0.003	0.000	0.014	0.0	0.8
Croissant-like pastries	0.4	0.000	0.001	0.000	0.010	0.0	0.3
Sweet and savoury biscuits and bars	0.4	0.000	0.001	0.000	0.008	0.0	0.3
Pastries and cakes	1.3	0.000	0.004	0.000	0.015	0.0	0.9
Milk	0.9	0.000	0.004	0.000	0.020	0.0	0.9
Ultra-fresh dairy products	1.0	0.000	0.003	0.000	0.011	0.0	0.8
Cheese	0.6	0.000	0.001	0.000	0.003	0.0	0.3
Eggs and egg products	0.3	0.000	0.001	0.000	0.002	0.0	0.2
Butter	0.2	0.000	0.000	0.000	0.001	0.0	0.1
Meat	1.0	0.000	0.002	0.000	0.005	0.0	0.5
Poultry and game	0.6	0.000	0.001	0.000	0.005	0.0	0.3
Offal	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.6	0.000	0.001	0.000	0.003	0.0	0.3
Fish	0.1	0.000	0.001	0.000	0.002	0.0	0.1
Crustaceans and molluscs	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	13.5	0.000	0.091	0.000	0.229	0.0	22.0
Potatoes and potato products	3.8	0.000	0.038	0.000	0.104	0.0	9.0
Pulses	0.4	0.000	0.004	0.000	0.050	0.0	0.9
Fruits	8.7	0.001	0.019	0.006	0.059	100.0	4.5
Dried fruits, nuts and seeds	0.1	0.000	0.000	0.000	0.004	0.0	0.1
Ice creams, sorbets and frozen desserts	0.0	0.000	0.000	0.000	0.004	0.0	0.0
Chocolate	0.2	0.000	0.001	0.000	0.004	0.0	0.1
Sugars and sugar derivatives	0.5	0.000	0.001	0.000	0.008	0.0	0.4
Water	10.5	0.000	0.025	0.000	0.143	0.0	6.0
Soft drinks	7.3	0.000	0.017	0.000	0.091	0.0	4.2
Alcoholic beverages	8.0	0.000	0.019	0.000	0.087	0.0	4.5
Coffee	13.9	0.000	0.033	0.000	0.120	0.0	7.9
Other hot beverages	8.7	0.000	0.020	0.000	0.135	0.0	4.9
Pizzas, quiches and savoury pastries	0.9	0.000	0.011	0.000	0.075	0.0	2.6
Sandwiches and snacks	0.8	0.000	0.010	0.000	0.088	0.0	2.3
Soups and broths	4.4	0.000	0.051	0.000	0.313	0.0	12.4
Mixed dishes	2.2	0.000	0.026	0.000	0.125	0.0	6.3
Dairy-based desserts	0.3	0.000	0.002	0.000	0.013	0.0	0.4
Compotes and cooked fruit	0.6	0.000	0.002	0.000	0.016	0.0	0.4
Seasonings and sauces	0.2	0.000	0.002	0.000	0.014	0.0	0.5
TOTAL	**100.0**	**0.001**	**0.415**	**0.005**	**0.713**	**100.0**	**100.0**

Table G23: Estimated exposure (mean and P95) in children to organochlorines (µg/kg bw/day) and contribution of foods (%)

Food group	Chlorothalonil mean (LB)	Chlorothalonil mean (UB)	Chlorothalonil P95 (LB)	Chlorothalonil P95 (UB)	Chlorothalonil contrib (LB)	Chlorothalonil contrib (UB)	Dicofol mean (UB)	Dicofol P95 (UB)	Dicofol contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.012	0.0	3.2	0.011	0.028	4.2
Breakfast cereals	0.000	0.001	0.000	0.006	0.0	0.8	0.003	0.014	1.1
Pasta	0.000	0.004	0.000	0.011	0.0	2.6	0.009	0.025	3.4
Rice and wheat products	0.000	0.002	0.000	0.009	0.0	1.5	0.005	0.020	1.9
Croissant-like pastries	0.000	0.002	0.000	0.007	0.0	1.0	0.004	0.016	1.4
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.008	0.0	1.3	0.003	0.014	1.4
Pastries and cakes	0.000	0.003	0.000	0.010	0.0	2.1	0.007	0.024	2.7
Milk	0.000	0.006	0.000	0.019	0.0	3.9	0.009	0.032	3.7
Ultra-fresh dairy products	0.000	0.004	0.000	0.012	0.0	2.6	0.005	0.017	2.1
Cheese	0.000	0.001	0.000	0.002	0.0	0.4	0.002	0.006	0.7
Eggs and egg products	0.000	0.000	0.000	0.002	0.0	0.2	0.001	0.005	0.4
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.3
Meat	0.000	0.004	0.000	0.010	0.0	2.5	0.004	0.010	1.4
Poultry and game	0.000	0.002	0.000	0.006	0.0	1.3	0.002	0.006	0.7
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0
Delicatessen meats	0.000	0.002	0.000	0.007	0.0	1.5	0.002	0.007	0.8
Fish	0.000	0.000	0.000	0.002	0.0	0.3	0.001	0.003	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.002	0.011	0.011	0.032	100.0	7.6	0.038	0.108	14.8
Potatoes and potato products	0.000	0.033	0.000	0.139	0.0	22.9	0.016	0.043	6.3
Pulses	0.000	0.001	0.000	0.009	0.0	0.5	0.002	0.018	0.6
Fruits	0.000	0.006	0.000	0.021	0.0	4.4	0.022	0.070	8.4
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.0	0.000	0.016	0.1
Chocolate	0.000	0.001	0.000	0.004	0.0	0.4	0.001	0.007	0.5
Sugars and sugar derivatives	0.000	0.000	0.000	0.004	0.0	0.3	0.001	0.010	0.4
Water	0.000	0.009	0.000	0.049	0.0	6.3	0.017	0.097	6.7
Soft drinks	0.000	0.024	0.000	0.074	0.0	16.5	0.048	0.148	18.7
Alcoholic beverages	0.000	0.000	0.000	0.015	0.0	0.1	0.000	0.030	0.1
Coffee	0.000	0.000	0.000	0.029	0.0	0.3	0.001	0.058	0.4
Other hot beverages	0.000	0.003	0.000	0.029	0.0	2.4	0.007	0.058	2.7
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.011	0.0	1.4	0.004	0.021	1.5
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.9	0.003	0.019	1.1
Soups and broths	0.000	0.006	0.000	0.042	0.0	4.0	0.012	0.084	4.5
Mixed dishes	0.000	0.005	0.000	0.019	0.0	3.7	0.010	0.037	3.9
Dairy-based desserts	0.000	0.002	0.000	0.008	0.0	1.1	0.002	0.010	0.7
Compotes and cooked fruit	0.000	0.002	0.000	0.013	0.0	1.3	0.005	0.031	1.8
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.3	0.001	0.006	0.4
TOTAL	**0.002**	**0.144**	**0.011**	**0.303**	**100.0**	**100.0**	**0.256**	**0.508**	**100.0**

Food group	Endosulfan mean (LB)	Endosulfan mean (UB)	Endosulfan P95 (LB)	Endosulfan P95 (UB)	Endosulfan contrib (LB)	Endosulfan contrib (UB)
Bread and dried bread products	0.000	0.014	0.000	0.035	0.0	2.6
Breakfast cereals	0.000	0.004	0.000	0.018	0.0	0.7
Pasta	0.000	0.011	0.000	0.032	0.0	2.1
Rice and wheat products	0.000	0.006	0.000	0.026	0.0	1.2
Croissant-like pastries	0.000	0.004	0.000	0.020	0.0	0.9
Sweet and savoury biscuits and bars	0.000	0.005	0.000	0.021	0.0	1.0
Pastries and cakes	0.000	0.009	0.000	0.030	0.0	1.7
Milk	0.000	0.017	0.000	0.057	0.0	3.2
Ultra-fresh dairy products	0.000	0.008	0.000	0.024	0.0	1.5
Cheese	0.000	0.001	0.000	0.005	0.0	0.3
Eggs and egg products	0.000	0.001	0.000	0.005	0.0	0.2
Butter	0.000	0.001	0.000	0.003	0.0	0.1
Meat	0.000	0.003	0.000	0.008	0.0	0.6
Poultry and game	0.000	0.002	0.000	0.006	0.0	0.3
Offal	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.000	0.002	0.000	0.006	0.0	0.4
Fish	0.000	0.001	0.000	0.004	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.002	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.109	0.000	0.313	0.0	20.8
Potatoes and potato products	0.000	0.069	0.000	0.189	0.0	13.1
Pulses	0.000	0.007	0.000	0.086	0.0	1.3
Fruits	0.001	0.020	0.010	0.066	100.0	3.9
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.004	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.020	0.0	0.0
Chocolate	0.000	0.001	0.000	0.007	0.0	0.2
Sugars and sugar derivatives	0.000	0.001	0.000	0.012	0.0	0.2
Water	0.000	0.017	0.000	0.097	0.0	3.3
Soft drinks	0.000	0.048	0.000	0.148	0.0	9.2
Alcoholic beverages	0.000	0.000	0.000	0.030	0.0	0.1
Coffee	0.000	0.001	0.000	0.058	0.0	0.2
Other hot beverages	0.000	0.007	0.000	0.058	0.0	1.3
Pizzas, quiches and savoury pastries	0.000	0.019	0.000	0.103	0.0	3.6
Sandwiches and snacks	0.000	0.013	0.000	0.093	0.0	2.6
Soups and broths	0.000	0.057	0.000	0.415	0.0	10.9
Mixed dishes	0.000	0.051	0.000	0.190	0.0	9.7
Dairy-based desserts	0.000	0.004	0.000	0.018	0.0	0.7
Compotes and cooked fruit	0.000	0.006	0.000	0.040	0.0	1.1
Seasonings and sauces	0.000	0.004	0.000	0.028	0.0	0.8
TOTAL	**0.001**	**0.523**	**0.007**	**1.004**	**100.0**	**100.0**

Table G24: Estimated mean contamination of foods by organotin residues (mg/kg FW)

Food group	Type	Cyhexatin (LB)	Cyhexatin (UB)	Fenbutatin oxide (LB)	Fenbutatin oxide (UB)	Fentin acetate (LB)	Fentin acetate (UB)	Fentin hydroxide (LB)	Fentin hydroxide (UB)
Bread and dried bread products	N								
Breakfast cereals	N								
Pasta	N								
Rice and wheat products	N								
Croissant-like pastries	N								
Sweet and savoury biscuits and bars	R								
Pastries and cakes	N								
Milk	R	0	0.003			0	0.002	0	0.002
Ultra-fresh dairy products	R	0	0.003			0	0.002	0	0.002
Cheese	R			0	0.002				
Eggs and egg products	R	0	0.005			0	0.003	0	0.003
Butter	N			0	0.002				
Meat	R								
Poultry and game	R								
Offal	R								
Delicatessen meats	R								
Fish	R	0	0.003	0	0.002	0	0.002	0	0.002
Crustaceans and molluscs	R	0	0.003	0	0.002	0	0.002	0	0.002
Vegetables (excluding potatoes)	R								
Potatoes and potato products	R								
Pulses	R								
Fruits	R								
Dried fruits, nuts and seeds	N								
Chocolate	N								
Sugars and sugar derivatives	N								
Water	R								
Soft drinks	N								
Alcoholic beverages	N								
Coffee	R								
Other hot beverages	R								
Pizzas, quiches and savoury pastries	N								
Sandwiches and snacks	R								
Soups and broths	R								
Mixed dishes	R								
Dairy-based desserts	R	0	0.004	0	0.002	0	0.002	0	0.002
Compotes and cooked fruit	N								
Seasonings and sauces	N	0	0.005			0	0.003	0	0.003

Table G25: Estimated exposure (mean and P95) in adults to organotins (µg/kg bw/day) and contribution of foods (%)

Food group	Cyhexatin mean (UB)	Cyhexatin P95 (UB)	Cyhexatin contrib (UB)	Fenbutatin oxide mean (UB)	Fenbutatin oxide P95 (UB)	Fenbutatin oxide contrib (UB)	Fentin acetate mean (UB)	Fentin acetate P95 (UB)	Fentin acetate contrib (UB)	Fentin hydroxide mean (UB)	Fentin hydroxide P95 (UB)	Fentin hydroxide contrib (UB)
Bread and dried bread products												
Breakfast cereals												
Pasta												
Rice and wheat products												
Croissant-like pastries												
Sweet and savoury biscuits and bars												
Pastries and cakes												
Milk	0.004	0.022	51.3				0.002	0.011	44.4	0.002	0.011	44.4
Ultra-fresh dairy products	0.000	0.006	1.5	0.000	0.003	10.7	0.000	0.003	1.3	0.000	0.003	1.3
Cheese				0.001	0.002	23.8						
Eggs and egg products	0.001	0.004	13.2				0.001	0.003	15.2	0.001	0.003	15.2
Butter				0.000	0.001	9.3						
Meat												
Poultry and game												
Offal												
Delicatessen meats												
Fish	0.001	0.003	7.4	0.000	0.001	10.7	0.000	0.001	6.4	0.000	0.001	6.4
Crustaceans and molluscs	0.000	0.002	2.2	0.000	0.001	3.1	0.000	0.001	1.9	0.000	0.001	1.9
Vegetables (excluding potatoes)												
Potatoes and potato products												
Pulses												
Fruits												
Dried fruits, nuts and seeds												
Ice creams, sorbets and frozen desserts												
Chocolate												
Sugars and sugar derivatives												
Water												
Soft drinks												
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas, quiches and savoury pastries												
Sandwiches and snacks												
Soups and broths												
Mixed dishes												
Dairy-based desserts	0.001	0.006	13.1	0.000	0.003	14.4	0.001	0.004	12.2	0.001	0.004	12.2
Compotes and cooked fruit												
Seasonings and sauces	0.000	0.001	1.0				0.000	0.001	1.1	0.000	0.001	1.1
TOTAL	**0.008**	**0.023**	**100.0**	**0.003**	**0.006**	**100.0**	**0.005**	**0.012**	**100.0**	**0.005**	**0.012**	**100.0**

Table G26: Estimated exposure (mean and P95) in children to organotins (µg/kg bw/day) and contribution of foods (%)

Food group	Cyhexatin mean (UB)	Cyhexatin P95 (UB)	Cyhexatin contrib (UB)	Fenbutatin oxide mean (UB)	Fenbutatin oxide P95 (UB)	Fenbutatin oxide contrib (UB)	Fentin acetate mean (UB)	Fentin acetate P95 (UB)	Fentin acetate contrib (UB)	Fentin hydroxide mean (UB)	Fentin hydroxide P95 (UB)	Fentin hydroxide contrib (UB)
Bread and dried bread products												
Breakfast cereals												
Pasta												
Rice and wheat products												
Croissant-like pastries												
Sweet and savoury biscuits and bars												
Pastries and cakes												
Milk	0.019	0.064	68.8				0.009	0.032	64.4	0.009	0.032	64.4
Ultra-fresh dairy products	0.001	0.015	4.2	0.001	0.007	17.8	0.001	0.007	4.0	0.001	0.007	4.0
Cheese				0.001	0.003	15.6						
Eggs and egg products	0.002	0.008	5.6				0.001	0.005	7.0	0.001	0.005	7.0
Butter				0.000	0.001	7.9						
Meat												
Poultry and game												
Offal												
Delicatessen meats												
Fish	0.001	0.005	4.4	0.001	0.003	11.2	0.001	0.003	4.1	0.001	0.003	4.1
Crustaceans and molluscs	0.000	0.002	0.4	0.000	0.001	1.0	0.000	0.001	0.4	0.000	0.001	0.4
Vegetables (excluding potatoes)												
Potatoes and potato products												
Pulses												
Fruits												
Dried fruits, nuts and seeds												
Ice creams, sorbets and frozen desserts												
Chocolate												
Sugars and sugar derivatives												
Water												
Soft drinks												
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas, quiches and savoury pastries												
Sandwiches and snacks												
Soups and broths												
Mixed dishes												
Dairy-based desserts	0.003	0.018	11.7	0.001	0.007	25.0	0.002	0.010	11.5	0.002	0.010	11.5
Compotes and cooked fruit												
Seasonings and sauces	0.000	0.001	0.5				0.000	0.001	0.6	0.000	0.001	0.6
TOTAL	**0.027**	**0.073**	**100.0**	**0.005**	**0.014**	**100.0**	**0.015**	**0.038**	**100.0**	**0.015**	**0.038**	**100.0**

Table G27: Estimated mean contamination of foods by organophosphate residues (mg/kg FW)

Food group	Type	Azinphos methyl (LB)	Azinphos methyl (UB)	Chlorfenvinphos (LB)	Chlorfenvinphos (UB)	Chlorpyriphos ethyl (LB)	Chlorpyriphos ethyl (UB)	Chlorpyriphos methyl (LB)	Chlorpyriphos methyl (UB)	Diazinon (LB)	Diazinon (UB)
Bread and dried bread products	N	0	0.005	0	0.003	0	0.003	0.004	0.008	0	0.007
Breakfast cereals	N	0	0.005	0	0.003	0	0.003	0	0.003	0	0.007
Pasta	N	0	0.005	0	0.003	0	0.003	0	0.003	0	0.007
Rice and wheat products	N	0	0.005	0	0.003	0	0.003	0.0005	0.004	0	0.007
Croissant-like pastries	N	0	0.005	0	0.003	0	0.003	0.002	0.009	0	0.007
Sweet and savoury biscuits and bars	R	0	0.010	0	0.004	0	0.004	0.001	0.007	0	0.007
Pastries and cakes	N	0	0.005	0	0.003	0	0.003	0	0.003	0	0.007
Milk	R	0	0.008	0	0.002	0	0.001	0	0.001	0	0.002
Ultra-fresh dairy products	R	0	0.008	0	0.002	0	0.001	0	0.001	0	0.002
Cheese	R	0	0.003	0	0.002	0	0.001	0	0.001	0	0.003
Eggs and egg products	R	0	0.003	0	0.002	0	0.001	0	0.001	0	0.003
Butter	N	0	0.003	0	0.002	0	0.001	0	0.001	0	0.003
Meat	R	0	0.003	0	0.002	0	0.001	0	0.002	0	0.003
Poultry and game	R	0	0.003	0	0.002	0	0.001	0	0.002	0	0.003
Offal	R	0	0.003	0	0.002	0	0.001	0	0.002	0	0.003
Delicatessen meats	R	0	0.003	0	0.002	0.00007	0.001	0	0.002	0.00006	0.003
Fish	R	0	0.008	0	0.002	0	0.001	0	0.001	0	0.002
Crustaceans and molluscs	R	0	0.008	0	0.002	0	0.001	0	0.001	0	0.002
Vegetables (excluding potatoes)	R	0	0.039	0.0011	0.009	0.00005	0.020	0.00003	0.020	0	0.009
Potatoes and potato products	R	0	0.035	0	0.006	0	0.006	0	0.006	0	0.007
Pulses	R	0	0.008	0	0.004	0	0.004	0.0002	0.004	0	0.006
Fruits	R	0.0004	0.010	0	0.005	0.0042	0.008	0.0001	0.003	0	0.003
Dried fruits, nuts and seeds	N	0	0.005	0	0.003	0	0.003	0	0.003	0	0.007
Ice creams, sorbets and frozen desserts	N	0	0.020	0	0.005	0	0.005	0	0.005	0	0.005
Chocolate	N	0	0.013	0	0.004	0	0.004	0	0.004	0	0.006
Sugars and sugar derivatives	R	0	0.0001	0	0.00005	0	0.00005	0	0.00005	0	0.00005
Water	N	0	0.019	0	0.005	0	0.005	0	0.005	0	0.005
Soft drinks	N	0	0.020	0	0.005	0	0.005	0	0.005	0	0.005
Alcoholic beverages	R	0	0.020	0	0.005	0	0.005	0	0.005	0	0.005
Coffee	R	0	0.020	0	0.005	0	0.005	0	0.005	0	0.005
Other hot beverages	N	0	0.009	0	0.003	0	0.003	0	0.003	0	0.005
Pizzas, quiches and savoury pastries	R	0	0.010	0	0.005	0	0.005	0.003	0.007	0	0.005
Sandwiches and snacks	R	0	0.010	0	0.005	0	0.005	0	0.005	0	0.005
Soups and broths	R	0	0.009	0	0.004	0	0.004	0.0003	0.004	0	0.005
Mixed dishes	R	0	0.008	0	0.002	0	0.001	0	0.001	0	0.002
Dairy-based desserts	N	0	0.005	0	0.003	0	0.003	0	0.003	0	0.007
Compotes and cooked fruit	N	0	0.008	0	0.004	0	0.004	0	0.004	0	0.004
Seasonings and sauces	N	0	0.008	0	0.004	0	0.004	0	0.004	0	0.004

Food group	Type	Dichlorvos (LB)	Dichlorvos (UB)	Dicofol (LB)	Dicofol (UB)	Dimethoate (LB)	Dimethoate (UB)	Disulfoton (LB)	Disulfoton (UB)	Ethion (LB)	Ethion (UB)	Fenthion (LB)	Fenthion (UB)
Bread and dried bread products	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Breakfast cereals	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Pasta	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Rice and wheat products	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Croissant-like pastries	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Sweet and savoury biscuits and bars	R	0	0.013	0	0.007	0	0.046			0	0.005	0	0.006
Pastries and cakes	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Milk	R	0	0.002	0	0.002	0	0.007			0	0.002	0	0.005
Ultra-fresh dairy products	R	0	0.002	0	0.002	0	0.007	0	0.017	0	0.002	0	0.008
Cheese	R			0	0.003	0	0.007			0	0.002	0	0.007
Eggs and egg products	R			0	0.003	0	0.007			0	0.002	0	0.010
Butter	N			0	0.003	0	0.007			0	0.002	0	0.007
Meat	R			0	0.003	0	0.007			0	0.002	0	0.008
Poultry and game	R			0	0.003	0	0.007			0	0.002	0	0.008
Offal	R			0	0.003	0	0.007			0	0.002	0	0.008
Delicatessen meats	R			0	0.003	0	0.007			0.0001	0.002	0	0.008
Fish	R	0	0.002	0	0.002	0	0.007			0	0.002	0	0.005
Crustaceans and molluscs	R	0	0.002	0	0.002	0	0.007			0	0.002	0	0.005
Vegetables (excluding potatoes)	R	0	0.040	0	0.020	0.0003	0.063	0	0.020	0	0.005	0	0.017
Potatoes and potato products	R	0	0.025	0	0.010	0	0.051			0	0.007	0	0.011
Pulses	R	0	0.018	0	0.009	0	0.029			0	0.005	0	0.005
Fruits	R	0.00005	0.010	0	0.010	0.0285	0.061	0	0.010	0.00001	0.003	0	0.015
Dried fruits, nuts and seeds	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Ice creams, sorbets and frozen desserts	N	0	0.010	0	0.010	0	0.070	0	0.010	0	0.005	0	0.010
Chocolate	N	0	0.008	0	0.009	0	0.053	0	0.010	0	0.005	0	0.008
Sugars and sugar derivatives	R	0	0.00003	0	0.0001	0	0.0004	0	0.0001	0	0.00003	0	0.0001
Water	N	0	0.010	0	0.010	0	0.067	0	0.010	0	0.005	0	0.010
Soft drinks	N	0	0.010	0	0.010	0	0.070	0	0.010	0	0.005	0	0.010
Alcoholic beverages	R	0	0.010	0	0.010	0	0.070	0	0.010	0	0.005	0	0.010
Coffee	R	0	0.010	0	0.010	0	0.070	0	0.010	0	0.005	0	0.010
Other hot beverages	N	0	0.030	0	0.006	0	0.015	0	0.017	0	0.003	0	0.007
Pizzas, quiches and savoury pastries	R	0	0.030	0	0.010	0	0.023			0	0.005	0	0.005
Sandwiches and snacks	R	0	0.030	0	0.010	0	0.023			0.0007	0.006	0	0.005
Soups and broths	R	0	0.030	0	0.008	0	0.024	0	0.017	0	0.004	0	0.006
Mixed dishes	R	0	0.005	0	0.003	0	0.008			0	0.002	0	0.008
Dairy-based desserts	N	0	0.005	0	0.007	0	0.035			0	0.005	0	0.005
Compotes and cooked fruit	N	0	0.030	0	0.008	0	0.018			0	0.004	0	0.007
Seasonings and sauces	N	0	0.030	0	0.008	0	0.018			0	0.004	0	0.007

Food group	Type	Folpet (LB)	Folpet (UB)	Fenitrothion (LB)	Fenitrothion (UB)	Malathion (LB)	Malathion (UB)	Methidathion (LB)	Methidathion (UB)	Methomyl (LB)	Methomyl (UB)	Mevinphos (LB)	Mevinphos (UB)
Bread and dried bread products	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Breakfast cereals	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Pasta	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Rice and wheat products	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Croissant-like pastries	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Sweet and savoury biscuits and bars	R	0	0.008	0	0.005	0	0.004	0	0.008	0	0.007	0	0.005
Pastries and cakes	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Milk	R	0	0.007	0	0.001	0	0.002	0	0.002	0	0.002	0	0.002
Ultra-fresh dairy products	R	0	0.007	0	0.001	0	0.002	0	0.002	0	0.002	0	0.002
Cheese	R	0	0.017	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Eggs and egg products	R	0	0.017	0	0.003	0	0.003	0	0.003	0	0.002	0	0.002
Butter	N	0	0.017	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Meat	R	0	0.017	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Poultry and game	R	0	0.017	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Offal	R	0	0.017	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Delicatessen meats	R	0	0.017	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Fish	R	0	0.007	0	0.001	0	0.002	0	0.002	0	0.002	0	0.002
Crustaceans and molluscs	R	0	0.007	0	0.001	0	0.002	0	0.002	0	0.002	0	0.002
Vegetables (excluding potatoes)	R	0	0.017	0.00002	0.020	0	0.012	0	0.010	0	0.007	0	0.016
Potatoes and potato products	R	0	0.090	0	0.006	0	0.010	0	0.020	0	0.007	0	0.005
Pulses	R	0	0.006	0	0.005	0	0.007	0	0.015	0	0.007	0	0.005
Fruits	R	0.0005	0.004	0	0.005	0	0.008	0	0.005	0.00003	0.008	0	0.005
Dried fruits, nuts and seeds	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Ice creams, sorbets and frozen desserts	N	0	0.010	0	0.005	0	0.010	0	0.010			0	0.010
Chocolate	N	0	0.008	0	0.005	0	0.007	0	0.008	0	0.001	0	0.008
Sugars and sugar derivatives	R	0	0.0001	0	0.00005	0	0.00005	0	0.0001	0	0.0001	0	0.0001
Water	N	0	0.010	0	0.005	0	0.009	0	0.010	0	0.001	0	0.010
Soft drinks	N	0	0.010	0	0.005	0	0.010	0	0.010	0	0.001	0	0.010
Alcoholic beverages	R	0	0.010	0	0.005	0	0.010	0	0.010			0	0.010
Coffee	R	0	0.010	0	0.005	0	0.010	0	0.010	0	0.001	0	0.010
Other hot beverages	N	0	0.007	0	0.003	0	0.006	0	0.013	0	0.005	0	0.003
Pizzas, quiches and savoury pastries	R	0	0.007	0	0.005	0	0.010	0	0.025	0	0.007	0	0.005
Sandwiches and snacks	R	0	0.007	0	0.005	0	0.010	0	0.025	0	0.007	0	0.005
Soups and broths	R	0	0.008	0	0.004	0.0001	0.008	0	0.020	0	0.006	0	0.004
Mixed dishes	R	0	0.008	0	0.002	0	0.003	0	0.004	0	0.003	0	0.002
Dairy-based desserts	N	0	0.005	0	0.005	0	0.003	0	0.005			0	0.005
Compotes and cooked fruit	N	0	0.010	0	0.004	0	0.008	0	0.018	0	0.005	0	0.004
Seasonings and sauces	N	0	0.010	0	0.004	0	0.008	0	0.018	0	0.005	0	0.004

Food group	Type	Monocrotophos (LB)	Monocrotophos (UB)	Naled (LB)	Naled (UB)	Ofurace (LB)	Ofurace (UB)	Oxydemeton methyl (LB)	Oxydemeton methyl (UB)	Parathion (LB)	Parathion (UB)	Phorate (LB)	Phorate (UB)	Phosalone (LB)	Phosalone (UB)
Bread and dried bread products	N	0	0.005							0	0.020	0	0.100	0	0.003
Breakfast cereals	N	0	0.005							0	0.020	0	0.100	0	0.003
Pasta	N	0	0.005							0	0.020	0	0.100	0	0.003
Rice and wheat products	N	0	0.005							0	0.020	0	0.100	0	0.003
Croissant-like pastries	N	0	0.005							0	0.020	0	0.100	0	0.003
Sweet and savoury biscuits and bars	R	0	0.006					0	0.010	0	0.018	0	0.100	0	0.004
Pastries and cakes	N	0	0.005							0	0.020	0	0.100	0	0.003
Milk	R	0	0.002			0	0.002	0	0.004	0	0.003	0	0.005	0	0.002
Ultra-fresh dairy products	R	0	0.002			0	0.002	0	0.004	0	0.004	0	0.005	0	0.002
Cheese	R	0	0.002			0	0.002	0	0.004	0	0.021	0	0.017	0	0.003
Eggs and egg products	R	0	0.002			0	0.002	0	0.004	0	0.021	0	0.021	0	0.003
Butter	N	0	0.002			0	0.002	0	0.004	0	0.021	0	0.017	0	0.003
Meat	R	0	0.002			0	0.002	0	0.004	0	0.021	0	0.021	0	0.003
Poultry and game	R	0	0.002			0	0.002	0	0.004	0	0.021	0	0.021	0	0.003
Offal	R	0	0.002			0	0.002	0	0.004	0	0.021	0	0.021	0	0.003
Delicatessen meats	R	0	0.002			0	0.002	0	0.004	0	0.021	0	0.021	0.00006	0.003
Fish	R	0	0.002			0	0.002	0	0.004	0	0.003	0	0.005	0	0.002
Crustaceans and molluscs	R	0	0.002			0	0.002	0	0.004	0	0.003	0	0.005	0	0.002
Vegetables (excluding potatoes)	R	0	0.017	0	0.020			0	0.010	0	0.035	0	0.029	0	0.020
Potatoes and potato products	R	0	0.008					0	0.008	0	0.011			0	0.010
Pulses	R	0	0.008					0	0.010	0	0.015	0	0.100	0	0.007
Fruits	R	0	0.010							0	0.005	0	0.010	0.0006	0.010
Dried fruits, nuts and seeds	N	0	0.005							0	0.020	0	0.100	0	0.003
Ice creams, sorbets and frozen desserts	N	0	0.020							0	0.010	0	0.020	0	0.010
Chocolate	N	0	0.013							0	0.015	0	0.060	0	0.007
Sugars and sugar derivatives	R	0	0.0001	0	0.0001	0	0.0001	0	0.0001	0	0.00005	0	0.0001	0	0.0001
Water	N	0	0.019							0	0.011	0	0.026	0	0.009
Soft drinks	N	0	0.020							0	0.010	0	0.020	0	0.010
Alcoholic beverages	R	0	0.020							0	0.010	0	0.020	0	0.010
Coffee	R	0	0.020							0	0.010	0	0.020	0	0.010
Other hot beverages	N	0	0.006			0	0.002	0	0.007	0	0.007	0	0.005	0	0.006
Pizzas, quiches and savoury pastries	R	0	0.010					0	0.010	0	0.010			0	0.010
Sandwiches and snacks	R	0	0.010					0	0.010	0	0.010			0	0.010
Soups and broths	R	0	0.008			0	0.002	0	0.009	0	0.011	0	0.013	0	0.008
Mixed dishes	R	0	0.003			0	0.002	0	0.004	0	0.007	0	0.007	0	0.003
Dairy-based desserts	N	0	0.005							0	0.020	0	0.100	0	0.003
Compotes and cooked fruit	N	0	0.007			0	0.002	0	0.008	0	0.014	0	0.021	0	0.008
Seasonings and sauces	N	0	0.007			0	0.002	0	0.008	0	0.014	0	0.021	0	0.008

Food group	Type	Phosmet (LB)	Phosmet (UB)	Phosphamidon (LB)	Phosphamidon (UB)	Pyrimiphos methyl (LB)	Pyrimiphos methyl (UB)	Quinalphos (LB)	Quinalphos (UB)	Sulfotep (LB)	Sulfotep (UB)	Thiometon (LB)	Thiometon (UB)
Bread and dried bread products	N	0	0.005	0	0.007	0.043	0.044	0	0.007				
Breakfast cereals	N	0	0.005	0	0.007	0.002	0.010	0	0.007				
Pasta	N	0	0.005	0	0.007	0.014	0.024	0	0.007				
Rice and wheat products	N	0	0.005	0	0.007	0.014	0.018	0	0.007				
Croissant-like pastries	N	0	0.005	0	0.007	0.036	0.040	0	0.007				
Sweet and savoury biscuits and bars	R	0	0.005	0	0.007	0.018	0.028	0	0.010				
Pastries and cakes	N	0	0.005	0	0.007	0.008	0.016	0	0.007				
Milk	R	0	0.003	0	0.002	0	0.003	0	0.003	0	0.017	0	0.002
Ultra-fresh dairy products	R	0	0.003	0	0.002	0.0001	0.003	0	0.003	0	0.017	0	0.002
Cheese	R	0	0.007	0	0.002	0	0.002	0	0.007	0	0.017		
Eggs and egg products	R	0	0.007	0	0.002	0	0.003	0	0.007	0	0.008	0	0.002
Butter	N	0	0.007	0	0.002	0	0.002	0	0.007	0	0.017		
Meat	R	0	0.007	0	0.002	0	0.003	0	0.003	0	0.008	0	0.002
Poultry and game	R	0	0.007	0	0.002	0	0.003	0	0.003	0	0.008	0	0.002
Offal	R	0	0.007	0	0.002	0	0.003	0	0.003	0	0.008	0	0.002
Delicatessen meats	R	0	0.007	0	0.002	0	0.003	0	0.003	0	0.008	0	0.002
Fish	R	0	0.003	0	0.002	0	0.003	0	0.003	0	0.008	0	0.002
Crustaceans and molluscs	R	0	0.003	0	0.002	0	0.003	0	0.003	0	0.008	0	0.002
Vegetables (excluding potatoes)	R	0	0.005	0	0.017	0.00009	0.020	0	0.017	0	0.020	0	0.020
Potatoes and potato products	R	0	0.007			0	0.007	0	0.020				
Pulses	R	0	0.008	0	0.007	0.0006	0.004	0	0.014				
Fruits	R	0.001	0.011	0	0.010	0	0.003	0	0.010	0	0.010	0	0.010
Dried fruits, nuts and seeds	N	0	0.005	0	0.007	0	0.003	0	0.007				
Ice creams, sorbets and frozen desserts	N	0	0.010	0	0.010	0.0006	0.006	0	0.010			0	0.005
Chocolate	N	0	0.008	0	0.009	0	0.004	0	0.009			0	0.005
Sugars and sugar derivatives	R	0	0.0001	0	0.0001	0	0.00005	0	0.0001	0	0.0001	0	0.0001
Water	N	0	0.010	0	0.010	0	0.005	0	0.010			0	0.005
Soft drinks	N	0	0.010	0	0.010	0	0.005	0	0.010			0	0.005
Alcoholic beverages	R	0	0.010	0	0.010	0	0.005	0	0.010			0	0.005
Coffee	R	0	0.010	0	0.010	0	0.005	0	0.010			0	0.005
Other hot beverages	N	0	0.004	0	0.002	0.005	0.008	0	0.012	0	0.017	0	0.002
Pizzas, quiches and savoury pastries	R	0	0.005			0.011	0.015	0	0.020				
Sandwiches and snacks	R	0	0.008			0.001	0.006	0	0.020				
Soups and broths	R	0	0.005	0	0.002	0.005	0.009	0	0.017	0	0.013	0	0.002
Mixed dishes	R	0	0.004	0	0.002	0.004	0.007	0	0.006	0	0.008	0	0.002
Dairy-based desserts	N	0	0.005	0	0.007	0	0.003	0	0.007				
Compotes and cooked fruit	N	0	0.006	0	0.002	0	0.004	0	0.016	0	0.008	0	0.002
Seasonings and sauces	N	0	0.006	0	0.002	0	0.004	0	0.016	0	0.008	0	0.002

Table G28: Estimated exposure (mean and P95) in adults to organophosphates (µg/kg bw/day) and contribution of foods (%)

Food group	Azinphos methyl mean LB	Azinphos methyl mean (UB)	Azinphos methyl P95 LB	Azinphos methyl P95 (UB)	Azinphos methyl contrib LB	Azinphos methyl contrib (UB)	Chlorfenvinphos mean LB	Chlorfenvinphos mean (UB)	Chlorfenvinphos P95 LB	Chlorfenvinphos P95 (UB)
Bread and dried bread products	0	0.008	0	0.019	0	2.0	0	0.005	0.0000	0.011
Breakfast cereals	0	0.000	0	0.006	0	0.1	0	0.000	0.0000	0.004
Pasta	0	0.003	0	0.009	0	0.7	0	0.002	0.0000	0.005
Rice and wheat products	0	0.002	0	0.008	0	0.5	0	0.001	0.0000	0.005
Croissant-like pastries	0	0.001	0	0.005	0	0.2	0	0.000	0.0000	0.003
Sweet and savoury biscuits and bars	0	0.001	0	0.005	0	0.2	0	0.000	0.0000	0.003
Pastries and cakes	0	0.002	0	0.008	0	0.5	0	0.001	0.0000	0.005
Milk	0	0.010	0	0.056	0	2.6	0	0.002	0.0000	0.011
Ultra-fresh dairy products	0	0.009	0	0.029	0	2.2	0	0.002	0.0000	0.006
Cheese	0	0.001	0	0.004	0	0.3	0	0.001	0.0000	0.002
Eggs and egg products	0	0.001	0	0.003	0	0.2	0	0.000	0.0000	0.001
Butter	0	0.001	0	0.002	0	0.1	0	0.000	0.0000	0.001
Meat	0	0.002	0	0.006	0	0.6	0	0.001	0.0000	0.003
Poultry and game	0	0.001	0	0.005	0	0.3	0	0.001	0.0000	0.003
Offal	0	0.000	0	0.002	0	0.0	0	0.000	0.0000	0.001
Delicatessen meats	0	0.001	0	0.004	0	0.3	0	0.001	0.0000	0.002
Fish	0	0.002	0	0.007	0	0.4	0	0.000	0.0000	0.001
Crustaceans and molluscs	0	0.000	0	0.004	0	0.1	0	0.000	0.0000	0.001
Vegetables (excluding potatoes)	0	0.059	0	0.153	0	14.8	0.0006	0.014	0.0003	0.033
Potatoes and potato products	0	0.021	0	0.075	0	5.1	0	0.005	0.0000	0.013
Pulses	0	0.001	0	0.010	0	0.2	0	0.000	0.0000	0.005
Fruits	0.003	0.021	0.019	0.067	100.0	5.3	0	0.010	0.0000	0.031
Dried fruits, nuts and seeds	0	0.000	0	0.002	0	0.0	0	0.000	0.0000	0.001
Ice creams, sorbets and frozen desserts	0	0.000	0	0.002	0	0.0	0	0.000	0.0000	0.001
Chocolate	0	0.001	0	0.009	0	0.3	0	0.000	0.0000	0.002
Sugars and sugar derivatives	0	0.001	0	0.007	0	0.3	0	0.001	0.0000	0.003
Water	0	0.049	0	0.286	0	12.2	0	0.013	0.0000	0.071
Soft drinks	0	0.034	0	0.182	0	8.6	0	0.009	0.0000	0.045
Alcoholic beverages	0	0.038	0	0.173	0	9.4	0	0.009	0.0000	0.043
Coffee	0	0.065	0	0.241	0	16.3	0	0.016	0.0000	0.060
Other hot beverages	0	0.041	0	0.271	0	10.2	0	0.010	0.0000	0.068
Pizzas, quiches and savoury pastries	0	0.003	0	0.015	0	0.6	0	0.001	0.0000	0.008
Sandwiches and snacks	0	0.002	0	0.018	0	0.5	0	0.001	0.0000	0.009
Soups and broths	0	0.010	0	0.063	0	2.6	0	0.005	0.0000	0.032
Mixed dishes	0	0.005	0	0.025	0	1.4	0	0.003	0.0000	0.013
Dairy-based desserts	0	0.002	0	0.015	0	0.6	0	0.001	0.0000	0.004
Compotes and cooked fruit	0	0.001	0	0.009	0	0.3	0	0.001	0.0000	0.005
Seasonings and sauces	0	0.000	0	0.003	0	0.1	0	0.000	0.0000	0.001
TOTAL	**0.003**	**0.400**	**0.016**	**0.730**	**100.0**	**100.0**	**0.0006**	**0.116**	**0.0003**	**0.203**

Food group	Chlorfenvinphos contrib LB	Chlorfenvinphos contrib (UB)	Chlorpyriphos ethyl mean LB	Chlorpyriphos ethyl mean (UB)	Chlorpyriphos ethyl P95 LB	Chlorpyriphos ethyl P95 (UB)	Chlorpyriphos ethyl contrib LB	Chlorpyriphos ethyl contrib (UB)	Chlorpyriphos methyl mean LB	Chlorpyriphos methyl mean (UB)
Bread and dried bread products	0.0	4.1	0.000	0.005	0.000	0.011	0.0	3.4	0.004	0.011
Breakfast cereals	0.0	0.1	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000
Pasta	0.0	1.4	0.000	0.002	0.000	0.005	0.0	1.2	0.000	0.002
Rice and wheat products	0.0	0.9	0.000	0.001	0.000	0.005	0.0	0.8	0.000	0.001
Croissant-like pastries	0.0	0.4	0.000	0.000	0.000	0.003	0.0	0.3	0.000	0.001
Sweet and savoury biscuits and bars	0.0	0.3	0.000	0.000	0.000	0.003	0.0	0.3	0.000	0.001
Pastries and cakes	0.0	1.1	0.000	0.001	0.000	0.005	0.0	0.9	0.000	0.001
Milk	0.0	1.8	0.000	0.001	0.000	0.007	0.0	0.9	0.000	0.001
Ultra-fresh dairy products	0.0	1.7	0.000	0.001	0.000	0.004	0.0	0.8	0.000	0.001
Cheese	0.0	0.6	0.000	0.000	0.000	0.001	0.0	0.3	0.000	0.000
Eggs and egg products	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000
Butter	0.0	0.2	0.000	0.000	0.000	0.000	0.0	0.1	0.000	0.000
Meat	0.0	1.0	0.000	0.001	0.000	0.002	0.0	0.5	0.000	0.001
Poultry and game	0.0	0.6	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.001
Offal	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000
Delicatessen meats	0.0	0.6	0.000	0.000	0.000	0.001	0.2	0.3	0.000	0.001
Fish	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000
Crustaceans and molluscs	0.0	0.1	0.000	0.000	0.000	0.000	0.0	0.0	0.000	0.000
Vegetables (excluding potatoes)	100.0	11.6	0.000	0.031	0.001	0.078	1.3	21.7	0.000	0.030
Potatoes and potato products	0.0	4.1	0.000	0.005	0.000	0.013	0.0	3.3	0.000	0.005
Pulses	0.0	0.4	0.000	0.000	0.000	0.005	0.0	0.3	0.000	0.000
Fruits	0.0	8.5	0.013	0.021	0.057	0.076	98.5	15.2	0.000	0.006
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000
Chocolate	0.0	0.2	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000
Sugars and sugar derivatives	0.0	0.5	0.000	0.001	0.000	0.003	0.0	0.4	0.000	0.001
Water	0.0	11.0	0.000	0.013	0.000	0.071	0.0	9.0	0.000	0.013
Soft drinks	0.0	7.4	0.000	0.009	0.000	0.045	0.0	6.1	0.000	0.009
Alcoholic beverages	0.0	8.1	0.000	0.009	0.000	0.043	0.0	6.6	0.000	0.009
Coffee	0.0	14.0	0.000	0.016	0.000	0.060	0.0	11.5	0.000	0.016
Other hot beverages	0.0	8.8	0.000	0.010	0.000	0.068	0.0	7.2	0.000	0.010
Pizzas, quiches and savoury pastries	0.0	1.0	0.000	0.001	0.000	0.008	0.0	0.8	0.000	0.001
Sandwiches and snacks	0.0	0.8	0.000	0.001	0.000	0.009	0.0	0.7	0.000	0.001
Soups and broths	0.0	4.5	0.000	0.005	0.000	0.032	0.0	3.7	0.000	0.005
Mixed dishes	0.0	2.3	0.000	0.003	0.000	0.013	0.0	1.9	0.000	0.003
Dairy-based desserts	0.0	0.5	0.000	0.000	0.000	0.003	0.0	0.3	0.000	0.000
Compotes and cooked fruit	0.0	0.5	0.000	0.001	0.000	0.005	0.0	0.4	0.000	0.001
Seasonings and sauces	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000
TOTAL	**100.0**	**100.0**	**0.013**	**0.141**	**0.050**	**0.260**	**100.0**	**100.0**	**0.005**	**0.135**

Food group	Chlorpyriphos methyl P95 LB	Chlorpyriphos methyl P95 (UB)	Chlorpyriphos methyl contrib LB	Chlorpyriphos methyl contrib (UB)	Diazinon mean LB	Diazinon mean (UB)	Diazinon P95 LB	Diazinon P95 (UB)	Diazinon contrib LB	Diazinon contrib (UB)	Dichlorvos mean LB	Dichlorvos mean (UB)	Dichlorvos P95 LB	Dichlorvos P95 (UB)
Bread and dried bread products	0.010	0.026	74.9	8.4	0.000	0.011	0.000	0.026	0.0	8.4	0.000	0.008	0.000	0.019
Breakfast cereals	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.009	0.0	0.3	0.000	0.000	0.000	0.006
Pasta	0.000	0.005	0.0	1.2	0.000	0.004	0.000	0.012	0.0	2.9	0.000	0.003	0.000	0.009
Rice and wheat products	0.000	0.005	0.8	0.9	0.000	0.003	0.000	0.011	0.0	1.9	0.000	0.002	0.000	0.008
Croissant-like pastries	0.002	0.009	2.7	0.6	0.000	0.001	0.000	0.008	0.0	0.8	0.000	0.001	0.000	0.005
Sweet and savoury biscuits and bars	0.003	0.011	6.6	0.9	0.000	0.001	0.000	0.006	0.0	0.6	0.000	0.001	0.000	0.006
Pastries and cakes	0.000	0.005	0.0	1.0	0.000	0.003	0.000	0.012	0.0	2.3	0.000	0.002	0.000	0.008
Milk	0.000	0.007	0.0	0.9	0.000	0.002	0.000	0.011	0.0	1.6	0.000	0.002	0.000	0.011
Ultra-fresh dairy products	0.000	0.004	0.0	0.9	0.000	0.002	0.000	0.007	0.0	1.7	0.000	0.000	0.000	0.003
Cheese	0.000	0.001	0.0	0.3	0.000	0.001	0.000	0.004	0.0	1.0				
Eggs and egg products	0.000	0.001	0.0	0.2	0.000	0.001	0.000	0.003	0.0	0.5				
Butter	0.000	0.000	0.0	0.1	0.000	0.001	0.000	0.002	0.0	0.4				
Meat	0.000	0.003	0.0	0.8	0.000	0.002	0.000	0.006	0.0	1.7				
Poultry and game	0.000	0.003	0.0	0.5	0.000	0.001	0.000	0.005	0.0	1.0				
Offal	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.1				
Delicatessen meats	0.000	0.002	0.0	0.5	0.00002	0.001	0.000	0.004	100.0	1.0				
Fish	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001
Crustaceans and molluscs	0.000	0.000	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.000	0.077	0.2	22.2	0.000	0.015	0.000	0.035	0.0	11.0	0.000	0.061	0.000	0.154
Potatoes and potato products	0.000	0.013	0.0	3.5	0.000	0.006	0.000	0.017	0.0	4.3	0.000	0.022	0.000	0.059
Pulses	0.001	0.006	0.5	0.3	0.000	0.000	0.000	0.006	0.0	0.4	0.000	0.002	0.000	0.030
Fruits	0.000	0.020	2.7	4.7	0.000	0.006	0.000	0.019	0.0	4.5	0.000	0.020	0.000	0.062
Dried fruits, nuts and seeds	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.2	0.000	0.000	0.000	0.002
Ice creams, sorbets and frozen desserts	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.002
Chocolate	0.000	0.002	0.0	0.2	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.001	0.000	0.004
Sugars and sugar derivatives	0.000	0.003	0.0	0.4	0.000	0.001	0.000	0.006	0.0	0.8	0.000	0.001	0.000	0.005
Water	0.000	0.071	0.0	9.5	0.000	0.013	0.000	0.071	0.0	9.6	0.000	0.025	0.000	0.143
Soft drinks	0.000	0.045	0.0	6.4	0.000	0.009	0.000	0.045	0.0	6.5	0.000	0.017	0.000	0.091
Alcoholic beverages	0.000	0.043	0.0	7.0	0.000	0.009	0.000	0.043	0.0	7.0	0.000	0.019	0.000	0.087
Coffee	0.000	0.060	0.0	12.1	0.000	0.016	0.000	0.060	0.0	12.2	0.000	0.033	0.000	0.120
Other hot beverages	0.000	0.068	0.0	7.6	0.000	0.010	0.000	0.068	0.0	7.6	0.000	0.020	0.000	0.135
Pizzas, quiches and savoury pastries	0.000	0.008	0.0	0.8	0.000	0.001	0.000	0.008	0.0	0.9	0.000	0.006	0.000	0.048
Sandwiches and snacks	0.007	0.012	10.1	1.0	0.000	0.001	0.000	0.009	0.0	0.7	0.000	0.006	0.000	0.053
Soups and broths	0.000	0.032	0.0	3.9	0.000	0.005	0.000	0.032	0.0	3.9	0.000	0.031	0.000	0.189
Mixed dishes	0.001	0.013	1.6	2.0	0.000	0.003	0.000	0.013	0.0	2.0	0.000	0.016	0.000	0.076
Dairy-based desserts	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.5	0.000	0.001	0.000	0.011
Compotes and cooked fruit	0.000	0.005	0.0	0.5	0.000	0.001	0.000	0.013	0.0	1.1	0.000	0.001	0.000	0.009
Seasonings and sauces	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.001	0.000	0.010
TOTAL	**0.012**	**0.229**	**100.0**	**100.0**	**0.00002**	**0.134**	**0.000**	**0.225**	**100.0**	**100.0**	**0.000**	**0.302**	**0.000**	**0.531**

Food group	Dichlorvos contrib LB	Dichlorvos contrib (UB)	Dimethoate mean LB	Dimethoate mean (UB)	Dimethoate P95 LB	Dimethoate P95 (UB)	Dimethoate contrib LB	Dimethoate contrib (UB)	Disulfoton mean (UB)	Disulfoton P95 (UB)	Disulfoton contrib (UB)	Ethion mean LB	Ethion mean (UB)
Bread and dried bread products	0.0	2.7	0.000	0.056	0.000	0.132	0.0	4.5				0.000	0.008
Breakfast cereals	0.0	0.1	0.000	0.002	0.000	0.044	0.0	0.1				0.000	0.000
Pasta	0.0	0.9	0.000	0.019	0.000	0.062	0.0	1.6				0.000	0.003
Rice and wheat products	0.0	0.6	0.000	0.013	0.000	0.054	0.0	1.0				0.000	0.002
Croissant-like pastries	0.0	0.2	0.000	0.005	0.000	0.038	0.0	0.4				0.000	0.001
Sweet and savoury biscuits and bars	0.0	0.3	0.000	0.005	0.000	0.032	0.0	0.4				0.000	0.001
Pastries and cakes	0.0	0.7	0.000	0.015	0.000	0.058	0.0	1.2				0.000	0.002
Milk	0.0	0.7	0.000	0.008	0.000	0.045	0.0	0.7				0.000	0.002
Ultra-fresh dairy products	0.0	0.0	0.000	0.008	0.000	0.025	0.0	0.6	0.016	0.056	9.2	0.000	0.002
Cheese			0.000	0.003	0.000	0.007	0.0	0.2				0.000	0.001
Eggs and egg products			0.000	0.001	0.000	0.005	0.0	0.1				0.000	0.000
Butter			0.000	0.001	0.000	0.003	0.0	0.1				0.000	0.000
Meat			0.000	0.004	0.000	0.011	0.0	0.3				0.000	0.001
Poultry and game			0.000	0.003	0.000	0.010	0.0	0.2				0.000	0.001
Offal			0.000	0.000	0.000	0.003	0.0	0.0				0.000	0.000
Delicatessen meats			0.000	0.003	0.000	0.008	0.0	0.2				0.000	0.001
Fish	0.0	0.1	0.000	0.001	0.000	0.005	0.0	0.1				0.000	0.000
Crustaceans and molluscs	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0				0.000	0.000
Vegetables (excluding potatoes)	0.0	20.2	0.000	0.098	0.000	0.234	2.0	7.9	0.023	0.060	13.0	0.000	0.008
Potatoes and potato products	0.0	7.2	0.000	0.043	0.000	0.166	0.0	3.5				0.000	0.006
Pulses	0.0	0.7	0.000	0.002	0.000	0.028	0.0	0.2				0.000	0.000
Fruits	100.0	6.5	0.018	0.086	0.085	0.302	98.0	6.9	0.020	0.062	11.3	0.000	0.006
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.001	0.000	0.016	0.0	0.1				0.000	0.000
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.000	0.000	0.015	0.0	0.0				0.000	0.000
Chocolate	0.0	0.2	0.000	0.004	0.000	0.030	0.0	0.3	0.001	0.004	0.3	0.000	0.000
Sugars and sugar derivatives	0.0	0.3	0.000	0.006	0.000	0.036	0.0	0.5	0.000	0.004	0.1	0.000	0.001
Water	0.0	8.2	0.000	0.171	0.000	1.000	0.0	13.8	0.025	0.143	14.2	0.000	0.013
Soft drinks	0.0	5.7	0.000	0.120	0.000	0.636	0.0	9.7	0.017	0.091	9.8	0.000	0.009
Alcoholic beverages	0.0	6.2	0.000	0.132	0.000	0.607	0.0	10.6	0.019	0.087	10.8	0.000	0.009
Coffee	0.0	10.8	0.000	0.228	0.000	0.842	0.0	18.4	0.033	0.120	18.7	0.000	0.016
Other hot beverages	0.0	6.7	0.000	0.142	0.000	0.947	0.0	11.5	0.020	0.135	11.7	0.000	0.010
Pizzas, quiches and savoury pastries	0.0	2.1	0.000	0.005	0.000	0.035	0.0	0.4	0.001	0.014	0.4	0.000	0.001
Sandwiches and snacks	0.0	1.9	0.000	0.004	0.000	0.041	0.0	0.4				0.000	0.001
Soups and broths	0.0	10.3	0.000	0.024	0.000	0.145	0.0	1.9				0.001	0.006
Mixed dishes	0.0	5.1	0.000	0.013	0.000	0.062	0.0	1.1	0.001	0.012	0.3	0.000	0.003
Dairy-based desserts	0.0	0.3	0.000	0.002	0.000	0.017	0.0	0.2				0.000	0.001
Compotes and cooked fruit	0.0	0.3	0.000	0.007	0.000	0.063	0.0	0.6				0.000	0.001
Seasonings and sauces	0.0	0.4	0.000	0.001	0.000	0.007	0.0	0.1				0.000	0.000
TOTAL	**100.0**	**100.0**	**0.018**	**1.239**	**0.043**	**2.349**	**100.0**	**100.0**	**0.174**	**0.338**	**100.0**	**0.001**	**0.117**

Food group	Ethion P95 LB	Ethion P95 (UB)	Ethion contrib LB	Ethion contrib (UB)	Fenitrothion mean LB	Fenitrothion mean (UB)	Fenitrothion P95 (UB)	Fenitrothion contrib LB	Fenitrothion contrib (UB)	Fenthion mean (UB)	Fenthion P95 (UB)	Fenthion contrib (UB)
Bread and dried bread products	0.000	0.019	0.0	6.9	0.000	0.008	0.019	0.0	5.8	0.008	0.019	3.3
Breakfast cereals	0.000	0.006	0.0	0.2	0.000	0.000	0.006	0.0	0.2	0.000	0.006	0.1
Pasta	0.000	0.009	0.0	2.4	0.000	0.003	0.009	0.0	2.0	0.003	0.009	1.1
Rice and wheat products	0.000	0.008	0.0	1.6	0.000	0.002	0.008	0.0	1.3	0.002	0.008	0.7
Croissant-like pastries	0.000	0.005	0.0	0.6	0.000	0.001	0.005	0.0	0.5	0.001	0.005	0.3
Sweet and savoury biscuits and bars	0.000	0.004	0.0	0.5	0.000	0.001	0.004	0.0	0.4	0.001	0.004	0.3
Pastries and cakes	0.000	0.008	0.0	1.9	0.000	0.002	0.008	0.0	1.6	0.002	0.008	0.9
Milk	0.000	0.011	0.0	1.8	0.000	0.001	0.007	0.0	0.9	0.006	0.034	2.5
Ultra-fresh dairy products	0.000	0.006	0.0	1.7	0.000	0.001	0.004	0.0	0.9	0.009	0.030	3.8
Cheese	0.000	0.002	0.0	0.6	0.000	0.001	0.002	0.0	0.5	0.003	0.007	1.1
Eggs and egg products	0.000	0.001	0.0	0.3	0.000	0.001	0.003	0.0	0.5	0.002	0.008	0.9
Butter	0.000	0.001	0.0	0.2	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.4
Meat	0.000	0.003	0.0	1.0	0.000	0.001	0.003	0.0	0.8	0.006	0.014	2.3
Poultry and game	0.000	0.003	0.0	0.6	0.000	0.001	0.003	0.0	0.5	0.003	0.013	1.3
Offal	0.000	0.001	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.004	0.1
Delicatessen meats	0.000	0.002	1.9	0.6	0.000	0.001	0.002	0.0	0.5	0.003	0.009	1.4
Fish	0.000	0.001	0.0	0.3	0.000	0.000	0.001	0.0	0.1	0.001	0.004	0.4
Crustaceans and molluscs	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.0	0.0	0.000	0.002	0.1
Vegetables (excluding potatoes)	0.000	0.020	0.0	7.1	0.000	0.031	0.078	100.0	22.0	0.026	0.063	10.4
Potatoes and potato products	0.000	0.017	0.0	4.9	0.000	0.005	0.013	0.0	3.4	0.009	0.034	3.6
Pulses	0.000	0.005	0.0	0.4	0.000	0.000	0.005	0.0	0.3	0.000	0.005	0.2
Fruits	0.000	0.020	3.8	5.4	0.000	0.010	0.031	0.0	7.1	0.030	0.093	12.0
Dried fruits, nuts and seeds	0.000	0.002	0.0	0.2	0.000	0.000	0.002	0.0	0.1	0.000	0.002	0.1
Ice creams, sorbets and frozen desserts	0.000	0.002	0.0	0.0	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0
Chocolate	0.000	0.002	0.0	0.2	0.000	0.000	0.002	0.0	0.2	0.001	0.004	0.2
Sugars and sugar derivatives	0.000	0.005	0.0	0.7	0.000	0.001	0.005	0.0	0.6	0.001	0.005	0.4
Water	0.000	0.071	0.0	10.9	0.000	0.013	0.071	0.0	9.2	0.025	0.143	10.1
Soft drinks	0.000	0.045	0.0	7.4	0.000	0.009	0.045	0.0	6.2	0.017	0.091	7.0
Alcoholic beverages	0.000	0.043	0.0	8.0	0.000	0.009	0.043	0.0	6.7	0.019	0.087	7.6
Coffee	0.000	0.060	0.0	13.9	0.000	0.016	0.060	0.0	11.7	0.033	0.120	13.3
Other hot beverages	0.000	0.068	0.0	8.7	0.000	0.010	0.068	0.0	7.3	0.020	0.135	8.3
Pizzas, quiches and savoury pastries	0.000	0.008	0.0	1.0	0.000	0.001	0.008	0.0	0.8	0.001	0.009	0.6
Sandwiches and snacks	0.000	0.009	0.0	0.8	0.000	0.001	0.009	0.0	0.7	0.001	0.009	0.4
Soups and broths	0.017	0.039	94.3	5.3	0.000	0.005	0.032	0.0	3.7	0.005	0.032	2.1
Mixed dishes	0.000	0.013	0.0	2.3	0.000	0.003	0.013	0.0	1.9	0.003	0.013	1.2
Dairy-based desserts	0.000	0.004	0.0	0.5	0.000	0.001	0.004	0.0	0.4	0.003	0.016	1.1
Compotes and cooked fruit	0.000	0.009	0.0	0.9	0.000	0.001	0.009	0.0	0.7	0.001	0.009	0.4
Seasonings and sauces	0.000	0.001	0.0	0.2	0.000	0.000	0.001	0.0	0.2	0.000	0.002	0.2
TOTAL	**0.004**	**0.203**	**100.0**	**100.0**	**0.000**	**0.139**	**0.238**	**100.0**	**100.0**	**0.246**	**0.428**	**100.0**

Food group	Malathion mean LB	Malathion mean (UB)	Malathion P95 LB	Malathion P95 (UB)	Malathion contrib LB	Malathion contrib (UB)	Methidathion mean (UB)	Methidathion P95 (UB)	Methidathion contrib (UB)	Mevinphos mean (UB)	Mevinphos P95 (UB)	Mevinphos contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.011	0.0	2.4	0.008	0.019	3.3	0.008	0.019	4.2
Breakfast cereals	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.006	0.1	0.000	0.006	0.1
Pasta	0.000	0.002	0.000	0.005	0.0	0.8	0.003	0.009	1.1	0.003	0.009	1.5
Rice and wheat products	0.000	0.001	0.000	0.005	0.0	0.5	0.002	0.008	0.8	0.002	0.008	1.0
Croissant-like pastries	0.000	0.000	0.000	0.003	0.0	0.2	0.001	0.005	0.3	0.001	0.005	0.4
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.003	0.0	0.2	0.001	0.005	0.3	0.001	0.004	0.3
Pastries and cakes	0.000	0.001	0.000	0.005	0.0	0.6	0.002	0.008	0.9	0.002	0.008	1.1
Milk	0.000	0.002	0.000	0.011	0.0	1.0	0.002	0.011	0.9	0.002	0.011	1.1
Ultra-fresh dairy products	0.000	0.002	0.000	0.007	0.0	1.1	0.002	0.007	0.9	0.002	0.006	1.0
Cheese	0.000	0.001	0.000	0.004	0.0	0.7	0.001	0.004	0.6	0.001	0.002	0.4
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.4	0.001	0.003	0.3	0.000	0.001	0.2
Butter	0.000	0.001	0.000	0.002	0.0	0.3	0.001	0.002	0.2	0.000	0.001	0.1
Meat	0.000	0.002	0.000	0.006	0.0	1.1	0.002	0.006	0.9	0.001	0.003	0.5
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.6	0.001	0.005	0.5	0.001	0.003	0.3
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	0.7	0.001	0.004	0.6	0.001	0.002	0.4
Fish	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.1	0.000	0.001	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.019	0.000	0.048	0.0	9.5	0.016	0.040	6.6	0.025	0.063	13.1
Potatoes and potato products	0.000	0.009	0.000	0.024	0.0	4.3	0.018	0.049	7.6	0.004	0.011	2.2
Pulses	0.000	0.001	0.000	0.010	0.0	0.4	0.002	0.025	0.8	0.000	0.005	0.2
Fruits	0.000	0.016	0.000	0.050	0.0	7.8	0.010	0.031	4.1	0.010	0.031	5.2
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.002	0.1	0.000	0.002	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Chocolate	0.000	0.001	0.000	0.004	0.0	0.3	0.001	0.004	0.2	0.001	0.004	0.3
Sugars and sugar derivatives	0.000	0.001	0.000	0.004	0.0	0.3	0.001	0.005	0.4	0.001	0.005	0.5
Water	0.000	0.025	0.000	0.143	0.0	12.2	0.025	0.143	10.2	0.025	0.143	12.9
Soft drinks	0.000	0.017	0.000	0.091	0.0	8.4	0.017	0.091	7.1	0.017	0.091	9.0
Alcoholic beverages	0.000	0.019	0.000	0.087	0.0	9.2	0.019	0.087	7.7	0.019	0.087	9.8
Coffee	0.000	0.033	0.000	0.120	0.0	16.1	0.033	0.120	13.4	0.033	0.120	17.0
Other hot beverages	0.000	0.020	0.000	0.135	0.0	10.0	0.020	0.135	8.4	0.020	0.135	10.6
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.015	0.0	1.1	0.005	0.038	2.2	0.001	0.008	0.6
Sandwiches and snacks	0.000	0.002	0.000	0.018	0.0	0.9	0.005	0.044	2.0	0.001	0.009	0.5
Soups and broths	0.000	0.010	0.000	0.063	0.0	5.1	0.026	0.158	10.7	0.005	0.032	2.7
Mixed dishes	0.000	0.005	0.001	0.025	100.0	2.5	0.013	0.062	5.3	0.003	0.013	1.4
Dairy-based desserts	0.000	0.001	0.000	0.006	0.0	0.4	0.001	0.007	0.4	0.001	0.004	0.3
Compotes and cooked fruit	0.000	0.001	0.000	0.005	0.0	0.3	0.001	0.009	0.4	0.001	0.009	0.5
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.2	0.001	0.007	0.5	0.000	0.001	0.1
TOTAL	**0.000**	**0.203**	**0.000**	**0.367**	**100.0**	**100.0**	**0.243**	**0.427**	**100.0**	**0.191**	**0.354**	**100.0**

Food group	Monocrotophos mean (UB)	Monocrotophos P95 (UB)	Monocrotophos contrib (UB)	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion P95 (UB)	Parathion contrib (UB)
Bread and dried bread products	0.008	0.019	2.4							0.075	9.3
Breakfast cereals	0.000	0.006	0.1							0.025	0.3
Pasta	0.003	0.009	0.8							0.035	3.2
Rice and wheat products	0.002	0.008	0.6							0.031	2.1
Croissant-like pastries	0.001	0.005	0.2							0.022	0.9
Sweet and savoury biscuits and bars	0.001	0.004	0.2				0.000	0.003	0.2	0.016	0.7
Pastries and cakes	0.002	0.008	0.7							0.033	2.5
Milk	0.002	0.011	0.6				0.005	0.025	9.2	0.019	1.0
Ultra-fresh dairy products	0.002	0.006	0.6				0.004	0.014	8.7	0.029	2.4
Cheese	0.001	0.002	0.2				0.001	0.004	3.0	0.023	2.4
Eggs and egg products	0.000	0.001	0.1				0.001	0.003	1.6	0.017	1.3
Butter	0.000	0.001	0.1				0.001	0.002	1.2	0.010	1.0
Meat	0.001	0.003	0.3				0.002	0.006	4.5	0.035	4.1
Poultry and game	0.001	0.003	0.2				0.001	0.006	2.9	0.032	2.4
Offal	0.000	0.001	0.0				0.000	0.002	0.1	0.011	0.1
Delicatessen meats	0.001	0.002	0.2				0.001	0.004	3.0	0.024	2.4
Fish	0.000	0.001	0.1				0.001	0.003	1.3	0.002	0.1
Crustaceans and molluscs	0.000	0.001	0.0				0.000	0.002	0.4	0.001	0.0
Vegetables (excluding potatoes)	0.026	0.064	7.8	0.023	0.060	95.8	0.001	0.011	2.0	0.135	15.8
Potatoes and potato products	0.008	0.020	2.3				0.008	0.020	15.3	0.026	2.7
Pulses	0.001	0.010	0.2				0.001	0.010	1.5	0.014	0.3
Fruits	0.020	0.062	6.0							0.032	3.0
Dried fruits, nuts and seeds	0.000	0.002	0.1							0.009	0.2
Ice creams, sorbets and frozen desserts	0.000	0.002	0.0							0.009	0.0
Chocolate	0.001	0.009	0.3							0.004	0.2
Sugars and sugar derivatives	0.001	0.007	0.4							0.017	0.9
Water	0.049	0.286	14.8	0.001	0.002	3.3	0.001	0.002	1.6	0.143	7.1
Soft drinks	0.034	0.182	10.4							0.091	5.0
Alcoholic beverages	0.038	0.173	11.4							0.087	5.4
Coffee	0.065	0.241	19.8							0.120	9.4
Other hot beverages	0.041	0.271	12.4							0.135	5.9
Pizzas, quiches and savoury pastries	0.002	0.015	0.7				0.002	0.015	4.6	0.015	0.7
Sandwiches and snacks	0.002	0.018	0.6				0.002	0.018	3.9	0.018	0.6
Soups and broths	0.010	0.063	3.2				0.010	0.063	20.9	0.063	3.0
Mixed dishes	0.005	0.025	1.6				0.005	0.025	10.7	0.025	1.5
Dairy-based desserts	0.001	0.005	0.2				0.001	0.008	2.6	0.019	0.7
Compotes and cooked fruit	0.001	0.009	0.3							0.036	1.2
Seasonings and sauces	0.000	0.003	0.1				0.000	0.003	1.0	0.004	0.2
TOTAL	**0.329**	**0.636**	**100.0**	**0.024**	**0.060**	**100.0**	**0.050**	**0.094**	**100.0**	**0.552**	**100.0**

Food group	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)	Phosalone mean LB	Phosalone mean (UB)	Phosalone P95 LB	Phosalone P95 (UB)	Phosalone contrib LB	Phosalone contrib (UB)	Phosmet mean LB	Phosmet mean (UB)	Phosmet P95 LB	Phosmet P95 (UB)
Bread and dried bread products	0.161	0.377	21.9	0.000	0.005	0.000	0.011	0.0	2.2	0.000	0.008	0.000	0.019
Breakfast cereals	0.005	0.125	0.7	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.006
Pasta	0.056	0.176	7.6	0.000	0.002	0.000	0.005	0.0	0.8	0.000	0.003	0.000	0.009
Rice and wheat products	0.037	0.153	5.0	0.000	0.001	0.000	0.005	0.0	0.5	0.000	0.002	0.000	0.008
Croissant-like pastries	0.015	0.108	2.0	0.000	0.000	0.000	0.003	0.0	0.2	0.000	0.001	0.000	0.005
Sweet and savoury biscuits and bars	0.011	0.082	1.5	0.000	0.000	0.000	0.003	0.0	0.2	0.000	0.001	0.000	0.004
Pastries and cakes	0.044	0.166	6.0	0.000	0.001	0.000	0.005	0.0	0.6	0.000	0.002	0.000	0.008
Milk	0.006	0.033	0.8	0.000	0.002	0.000	0.011	0.0	0.9	0.000	0.004	0.000	0.022
Ultra-fresh dairy products	0.008	0.027	1.1	0.000	0.002	0.000	0.007	0.0	1.0	0.000	0.005	0.000	0.014
Cheese	0.007	0.019	1.0	0.000	0.001	0.000	0.004	0.0	0.6	0.000	0.003	0.000	0.007
Eggs and egg products	0.004	0.017	0.6	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.005
Butter	0.003	0.009	0.4	0.000	0.001	0.000	0.002	0.0	0.2	0.000	0.001	0.000	0.003
Meat	0.014	0.035	1.9	0.000	0.002	0.000	0.006	0.0	1.0	0.000	0.004	0.000	0.011
Poultry and game	0.008	0.032	1.1	0.000	0.001	0.000	0.005	0.0	0.6	0.000	0.003	0.000	0.010
Offal	0.000	0.011	0.1	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.003
Delicatessen meats	0.008	0.023	1.1	0.000	0.001	0.000	0.004	0.2	0.6	0.000	0.003	0.000	0.008
Fish	0.001	0.004	0.1	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.002	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002
Vegetables (excluding potatoes)	0.049	0.129	6.7	0.000	0.030	0.000	0.077	0.0	13.7	0.000	0.009	0.000	0.021
Potatoes and potato products				0.000	0.009	0.000	0.025	0.0	4.1	0.000	0.006	0.000	0.017
Pulses	0.002	0.102	0.2	0.000	0.001	0.000	0.010	0.0	0.3	0.000	0.001	0.000	0.010
Fruits	0.022	0.069	3.0	0.005	0.023	0.034	0.076	99.8	10.4	0.004	0.022	0.026	0.068
Dried fruits, nuts and seeds	0.004	0.046	0.5	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.002
Ice creams, sorbets and frozen desserts	0.001	0.044	0.1	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002
Chocolate	0.001	0.009	0.1	0.000	0.001	0.000	0.004	0.0	0.2	0.000	0.001	0.000	0.004
Sugars and sugar derivatives	0.014	0.083	2.0	0.000	0.001	0.000	0.004	0.0	0.3	0.000	0.001	0.000	0.005
Water	0.049	0.286	6.7	0.000	0.025	0.000	0.143	0.0	11.2	0.000	0.025	0.000	0.143
Soft drinks	0.036	0.192	4.9	0.000	0.017	0.000	0.091	0.0	7.7	0.000	0.017	0.000	0.091
Alcoholic beverages	0.038	0.173	5.1	0.000	0.019	0.000	0.087	0.0	8.5	0.000	0.019	0.000	0.087
Coffee	0.065	0.241	8.9	0.000	0.033	0.000	0.120	0.0	14.7	0.000	0.033	0.000	0.120
Other hot beverages	0.041	0.271	5.6	0.000	0.020	0.000	0.135	0.0	9.2	0.000	0.020	0.000	0.135
Pizzas, quiches and savoury pastries	0.000	0.004	0.0	0.000	0.002	0.000	0.015	0.0	1.0	0.000	0.001	0.000	0.008
Sandwiches and snacks				0.000	0.002	0.000	0.018	0.0	0.9	0.000	0.001	0.000	0.009
Soups and broths				0.000	0.010	0.000	0.063	0.0	4.7	0.000	0.009	0.000	0.059
Mixed dishes	0.000	0.004	0.0	0.000	0.005	0.000	0.025	0.0	2.3	0.000	0.003	0.000	0.015
Dairy-based desserts	0.002	0.018	0.3	0.000	0.001	0.000	0.006	0.0	0.3	0.000	0.001	0.000	0.008
Compotes and cooked fruit	0.021	0.179	2.8	0.000	0.001	0.000	0.005	0.0	0.3	0.000	0.001	0.000	0.009
Seasonings and sauces	0.000	0.004	0.0	0.000	0.000	0.000	0.003	0.0	0.2	0.000	0.000	0.000	0.002
TOTAL	**0.732**	**1.203**	**100.0**	**0.005**	**0.222**	**0.030**	**0.396**	**100.0**	**100.0**	**0.004**	**0.211**	**0.021**	**0.375**

Food group	Phosmet contrib (LB)	Phosmet contrib (UB)	Phosphamidon mean (UB)	Phosphamidon P95 (UB)	Phosphamidon contrib (UB)	Pyrimiphos methyl mean LB	Pyrimiphos methyl mean (UB)	Pyrimiphos methyl P95 LB	Pyrimiphos methyl P95 (UB)	Pyrimiphos methyl contrib LB	Pyrimiphos methyl contrib (UB)
Bread and dried bread products	0.0	3.8	0.011	0.026	5.8	0.040	0.040	0.096	0.098	56.1	19.3
Breakfast cereals	0.0	0.1	0.000	0.009	0.2	0.000	0.000	0.003	0.012	0.1	0.2
Pasta	0.0	1.3	0.004	0.012	2.0	0.006	0.012	0.019	0.037	8.1	5.6
Rice and wheat products	0.0	0.9	0.003	0.011	1.3	0.005	0.006	0.023	0.026	7.6	3.0
Croissant-like pastries	0.0	0.4	0.001	0.008	0.5	0.004	0.005	0.034	0.040	6.3	2.4
Sweet and savoury biscuits and bars	0.0	0.3	0.001	0.006	0.4	0.003	0.004	0.024	0.033	4.3	2.1
Pastries and cakes	0.0	1.0	0.003	0.012	1.6	0.004	0.007	0.017	0.027	5.7	3.2
Milk	0.0	2.0	0.002	0.011	1.1	0.000	0.004	0.000	0.022	0.0	2.0
Ultra-fresh dairy products	0.0	2.1	0.002	0.006	1.0	0.000	0.004	0.002	0.012	0.5	1.8
Cheese	0.0	1.3	0.001	0.002	0.3	0.000	0.001	0.000	0.002	0.0	0.3
Eggs and egg products	0.0	0.7	0.000	0.001	0.2	0.000	0.001	0.000	0.003	0.0	0.3
Butter	0.0	0.5	0.000	0.001	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Meat	0.0	2.1	0.001	0.003	0.5	0.000	0.002	0.000	0.006	0.0	1.1
Poultry and game	0.0	1.2	0.001	0.003	0.3	0.000	0.001	0.000	0.005	0.0	0.6
Offal	0.0	0.1	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.0	1.3	0.001	0.002	0.3	0.000	0.001	0.000	0.004	0.0	0.6
Fish	0.0	0.3	0.000	0.001	0.2	0.000	0.001	0.000	0.003	0.0	0.3
Crustaceans and molluscs	0.0	0.1	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.1
Vegetables (excluding potatoes)	0.0	4.2	0.025	0.063	13.0	0.000	0.030	0.000	0.077	0.1	14.3
Potatoes and potato products	0.0	2.7				0.000	0.006	0.000	0.017	0.0	2.8
Pulses	0.0	0.4	0.000	0.007	0.1	0.000	0.000	0.003	0.006	0.1	0.2
Fruits	100.0	10.4	0.020	0.062	10.2	0.000	0.006	0.000	0.019	0.0	2.9
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.003	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.003	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.0	0.2	0.001	0.004	0.3	0.000	0.000	0.000	0.002	0.0	0.1
Sugars and sugar derivatives	0.0	0.4	0.001	0.007	0.6	0.000	0.001	0.000	0.003	0.0	0.3
Water	0.0	11.8	0.025	0.143	12.8	0.000	0.013	0.000	0.071	0.0	6.1
Soft drinks	0.0	8.2	0.017	0.091	8.9	0.000	0.009	0.000	0.045	0.0	4.1
Alcoholic beverages	0.0	8.9	0.019	0.087	9.7	0.000	0.009	0.000	0.043	0.0	4.5
Coffee	0.0	15.5	0.033	0.120	16.8	0.000	0.016	0.000	0.060	0.0	7.8
Other hot beverages	0.0	9.7	0.020	0.135	10.5	0.000	0.010	0.000	0.068	0.0	4.9
Pizzas, quiches and savoury pastries	0.0	0.6	0.000	0.001	0.0	0.002	0.003	0.015	0.019	3.0	1.4
Sandwiches and snacks	0.0	0.5				0.002	0.003	0.031	0.035	3.5	1.4
Soups and broths	0.0	4.4				0.000	0.005	0.002	0.032	0.2	2.6
Mixed dishes	0.0	1.4	0.000	0.001	0.0	0.003	0.005	0.021	0.025	3.8	2.3
Dairy-based desserts	0.0	0.6	0.000	0.003	0.3	0.000	0.001	0.006	0.011	0.5	0.7
Compotes and cooked fruit	0.0	0.5	0.001	0.013	0.7	0.000	0.001	0.000	0.005	0.0	0.3
Seasonings and sauces	0.0	0.2	0.000	0.000	0.0	0.000	0.000	0.000	0.001	0.0	0.1
TOTAL	**100.0**	**100.0**	**0.194**	**0.361**	**100.0**	**0.071**	**0.209**	**0.137**	**0.342**	**100.0**	**100.0**

Food group	Quinalphos mean (UB)	Quinalphos P95 (UB)	Quinalphos contrib (UB)	Sulfotep mean (UB)	Sulfotep P95 (UB)	Sulfotep contrib (UB)	Thiometon mean (UB)	Thiometon P95 (UB)	Thiometon contrib (UB)
Bread and dried bread products	0.011	0.026	4.2						
Breakfast cereals	0.000	0.009	0.1						
Pasta	0.004	0.012	1.5						
Rice and wheat products	0.003	0.011	1.0						
Croissant-like pastries	0.001	0.008	0.4						
Sweet and savoury biscuits and bars	0.001	0.006	0.4						
Pastries and cakes	0.003	0.012	1.1						
Milk	0.004	0.022	1.6	0.021	0.115	18.6	0.002	0.011	1.9
Ultra-fresh dairy products	0.005	0.014	1.7	0.020	0.063	17.6	0.002	0.006	1.5
Cheese	0.003	0.007	1.0	0.007	0.019	6.0			
Eggs and egg products	0.001	0.005	0.5	0.002	0.007	1.6	0.000	0.001	0.3
Butter	0.001	0.003	0.4	0.003	0.008	2.4			
Meat	0.002	0.006	0.8	0.006	0.014	4.9	0.001	0.003	1.0
Poultry and game	0.001	0.005	0.5	0.003	0.013	2.9	0.001	0.003	0.6
Offal	0.000	0.002	0.0	0.000	0.004	0.1	0.000	0.001	0.0
Delicatessen meats	0.001	0.004	0.5	0.003	0.009	2.9	0.001	0.002	0.6
Fish	0.001	0.003	0.2	0.002	0.007	1.3	0.000	0.001	0.3
Crustaceans and molluscs	0.000	0.002	0.1	0.000	0.004	0.4	0.000	0.001	0.1
Vegetables (excluding potatoes)	0.027	0.067	10.2	0.023	0.060	19.9	0.023	0.060	21.1
Potatoes and potato products	0.017	0.044	6.3						
Pulses	0.002	0.020	0.6						
Fruits	0.020	0.062	7.4	0.020	0.062	17.2	0.020	0.062	18.3
Dried fruits, nuts and seeds	0.000	0.003	0.1						
Ice creams, sorbets and frozen desserts	0.000	0.003	0.0						
Chocolate	0.001	0.004	0.2				0.000	0.002	0.2
Sugars and sugar derivatives	0.001	0.007	0.4				0.000	0.002	0.1
Water	0.025	0.143	9.3	0.001	0.002	0.7	0.013	0.071	11.9
Soft drinks	0.017	0.091	6.4				0.009	0.046	8.0
Alcoholic beverages	0.019	0.087	7.0				0.009	0.043	8.7
Coffee	0.033	0.120	12.2				0.016	0.060	15.2
Other hot beverages	0.020	0.135	7.6				0.010	0.068	9.5
Pizzas, quiches and savoury pastries	0.004	0.030	1.7	0.001	0.015	0.7	0.000	0.001	0.1
Sandwiches and snacks	0.004	0.035	1.4						
Soups and broths	0.021	0.126	7.8						
Mixed dishes	0.010	0.050	3.9	0.001	0.013	0.5	0.000	0.001	0.1
Dairy-based desserts	0.002	0.012	0.6	0.002	0.015	2.1	0.000	0.003	0.5
Compotes and cooked fruit	0.001	0.013	0.5						
Seasonings and sauces	0.001	0.006	0.4	0.000	0.001	0.1	0.000	0.000	0.0
TOTAL	**0.267**	**0.453**	**100.0**	**0.114**	**0.219**	**100.0**	**0.107**	**0.208**	**100.0**

Table G29: Estimated exposure (mean and P95) in children to organophosphates (µg/kg bw/day) under the lowerbound and/or upperbound contamination assumption and contribution of foods (%)

Food group	Azinphos methyl mean (LB)	Azinphos methyl mean (UB)	Azinphos methyl P95 (LB)	Azinphos methyl P95 (UB)	Azinphos methyl contrib (LB)	Azinphos methyl contrib (UB)	Chlorfenvinphos mean (LB)	Chlorfenvinphos mean (UB)	Chlorfenvinphos P95 (LB)	Chlorfenvinphos P95 (UB)
Bread and dried bread products	0.000	0.008	0.000	0.020	0.0	1.7	0.000	0.005	0.000	0.012
Breakfast cereals	0.000	0.002	0.000	0.010	0.0	0.5	0.000	0.001	0.000	0.006
Pasta	0.000	0.006	0.000	0.018	0.0	1.4	0.000	0.004	0.000	0.011
Rice and wheat products	0.000	0.004	0.000	0.015	0.0	0.8	0.000	0.002	0.000	0.009
Croissant-like pastries	0.000	0.003	0.000	0.011	0.0	0.6	0.000	0.002	0.000	0.007
Sweet and savoury biscuits and bars	0.000	0.003	0.000	0.013	0.0	0.7	0.000	0.002	0.000	0.006
Pastries and cakes	0.000	0.005	0.000	0.017	0.0	1.1	0.000	0.003	0.000	0.010
Milk	0.000	0.047	0.000	0.160	0.0	10.7	0.000	0.009	0.000	0.032
Ultra-fresh dairy products	0.000	0.019	0.000	0.060	0.0	4.3	0.000	0.004	0.000	0.014
Cheese	0.000	0.002	0.000	0.006	0.0	0.4	0.000	0.001	0.000	0.003
Eggs and egg products	0.000	0.001	0.000	0.005	0.0	0.2	0.000	0.001	0.000	0.003
Butter	0.000	0.001	0.000	0.003	0.0	0.2	0.000	0.000	0.000	0.001
Meat	0.000	0.004	0.000	0.010	0.0	0.8	0.000	0.002	0.000	0.005
Poultry and game	0.000	0.002	0.000	0.006	0.0	0.4	0.000	0.001	0.000	0.003
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.000	0.002	0.000	0.007	0.0	0.5	0.000	0.001	0.000	0.003
Fish	0.000	0.003	0.000	0.013	0.0	0.7	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.000	0.070	0.000	0.204	0.0	15.9	0.000	0.016	0.000	0.044
Potatoes and potato products	0.000	0.046	0.000	0.158	0.0	10.5	0.000	0.009	0.000	0.023
Pulses	0.000	0.001	0.000	0.018	0.0	0.3	0.000	0.001	0.000	0.009
Fruits	0.003	0.022	0.020	0.073	100.0	5.0	0.000	0.010	0.000	0.034
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.002
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.011	0.0	0.0	0.000	0.000	0.000	0.007
Chocolate	0.000	0.003	0.000	0.015	0.0	0.6	0.000	0.001	0.000	0.004
Sugars and sugar derivatives	0.000	0.001	0.000	0.009	0.0	0.2	0.000	0.000	0.000	0.004
Water	0.000	0.033	0.000	0.194	0.0	7.5	0.000	0.009	0.000	0.049
Soft drinks	0.000	0.095	0.000	0.295	0.0	21.6	0.000	0.024	0.000	0.074
Alcoholic beverages	0.000	0.001	0.000	0.060	0.0	0.2	0.000	0.000	0.000	0.015
Coffee	0.000	0.002	0.000	0.117	0.0	0.4	0.000	0.000	0.000	0.029
Other hot beverages	0.000	0.014	0.000	0.115	0.0	3.1	0.000	0.003	0.000	0.029
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.024	0.0	1.0	0.000	0.002	0.000	0.011
Sandwiches and snacks	0.000	0.003	0.000	0.019	0.0	0.6	0.000	0.001	0.000	0.009
Soups and broths	0.000	0.012	0.000	0.084	0.0	2.6	0.000	0.006	0.000	0.042
Mixed dishes	0.000	0.012	0.000	0.040	0.0	2.6	0.000	0.005	0.000	0.019
Dairy-based desserts	0.000	0.007	0.000	0.038	0.0	1.7	0.000	0.002	0.000	0.008
Compotes and cooked fruit	0.000	0.003	0.000	0.022	0.0	0.7	0.000	0.002	0.000	0.013
Seasonings and sauces	0.000	0.001	0.000	0.006	0.0	0.2	0.000	0.000	0.000	0.003
TOTAL	**0.003**	**0.440**	**0.016**	**0.887**	**100.0**	**100.0**	**0.000**	**0.130**	**0.000**	**0.254**

Food group	Chlorfenvinphos contrib (LB)	Chlorfenvinphos contrib (UB)	Chlorpyriphos ethyl mean (LB)	Chlorpyriphos ethyl mean (UB)	Chlorpyriphos ethyl P95 (LB)	Chlorpyriphos ethyl P95 (UB)	Chlorpyriphos ethyl contrib (LB)	Chlorpyriphos ethyl contrib (UB)	Chlorpyriphos methyl mean (LB)	Chlorpyriphos methyl mean (UB)
Bread and dried bread products	0.0	3.5	0.000	0.005	0.000	0.012	0.0	3.1	0.004	0.011
Breakfast cereals	0.0	0.9	0.000	0.001	0.000	0.006	0.0	0.8	0.000	0.001
Pasta	0.0	2.9	0.000	0.004	0.000	0.011	0.0	2.5	0.000	0.004
Rice and wheat products	0.0	1.6	0.000	0.002	0.000	0.009	0.0	1.4	0.000	0.002
Croissant-like pastries	0.0	1.2	0.000	0.002	0.000	0.007	0.0	1.0	0.000	0.003
Sweet and savoury biscuits and bars	0.0	1.2	0.000	0.002	0.000	0.006	0.0	1.1	0.002	0.006
Pastries and cakes	0.0	2.3	0.000	0.003	0.000	0.010	0.0	2.0	0.000	0.003
Milk	0.0	7.2	0.000	0.006	0.000	0.019	0.0	3.8	0.000	0.006
Ultra-fresh dairy products	0.0	3.3	0.000	0.003	0.000	0.008	0.0	1.7	0.000	0.003
Cheese	0.0	0.6	0.000	0.001	0.000	0.002	0.0	0.3	0.000	0.001
Eggs and egg products	0.0	0.4	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000
Butter	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000
Meat	0.0	1.4	0.000	0.001	0.000	0.003	0.0	0.7	0.000	0.002
Poultry and game	0.0	0.7	0.000	0.001	0.000	0.002	0.0	0.4	0.000	0.001
Offal	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000
Delicatessen meats	0.0	0.8	0.000	0.001	0.000	0.002	0.4	0.5	0.000	0.001
Fish	0.0	0.5	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000
Crustaceans and molluscs	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000
Vegetables (excluding potatoes)	100.0	12.0	0.000	0.036	0.001	0.105	1.8	24.1	0.000	0.035
Potatoes and potato products	0.0	6.8	0.000	0.009	0.000	0.023	0.0	5.9	0.000	0.009
Pulses	0.0	0.6	0.000	0.001	0.000	0.009	0.0	0.5	0.000	0.001
Fruits	0.0	8.0	0.009	0.018	0.041	0.068	97.8	12.3	0.000	0.007
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.000
Ice creams, sorbets and frozen desserts	0.0	0.1	0.000	0.000	0.000	0.007	0.0	0.0	0.000	0.000
Chocolate	0.0	0.5	0.000	0.001	0.000	0.004	0.0	0.4	0.000	0.001
Sugars and sugar derivatives	0.0	0.3	0.000	0.000	0.000	0.004	0.0	0.3	0.000	0.000
Water	0.0	7.0	0.000	0.009	0.000	0.049	0.0	6.1	0.000	0.009
Soft drinks	0.0	18.4	0.000	0.024	0.000	0.074	0.0	15.9	0.000	0.024
Alcoholic beverages	0.0	0.1	0.000	0.000	0.000	0.015	0.0	0.1	0.000	0.000
Coffee	0.0	0.4	0.000	0.000	0.000	0.029	0.0	0.3	0.000	0.000
Other hot beverages	0.0	2.6	0.000	0.003	0.000	0.029	0.0	2.3	0.000	0.003
Pizzas, quiches and savoury pastries	0.0	1.5	0.000	0.002	0.000	0.010	0.0	1.3	0.000	0.002
Sandwiches and snacks	0.0	1.0	0.000	0.001	0.000	0.009	0.0	0.9	0.001	0.002
Soups and broths	0.0	4.4	0.000	0.006	0.000	0.042	0.0	3.8	0.000	0.006
Mixed dishes	0.0	4.1	0.000	0.005	0.000	0.019	0.0	3.5	0.000	0.005
Dairy-based desserts	0.0	1.3	0.000	0.001	0.000	0.005	0.0	0.7	0.000	0.001
Compotes and cooked fruit	0.0	1.5	0.000	0.002	0.000	0.013	0.0	1.3	0.000	0.002
Seasonings and sauces	0.0	0.4	0.000	0.000	0.000	0.003	0.0	0.3	0.000	0.000
TOTAL	**100.0**	**100.0**	**0.009**	**0.150**	**0.039**	**0.304**	**100.0**	**100.0**	**0.007**	**0.151**

Food group	Chlorpyriphos methyl P95 (LB)	Chlorpyriphos methyl P95 (UB)	Chlorpyriphos methyl contrib (LB)	Chlorpyriphos methyl contrib (UB)	Diazinon mean (LB)	Diazinon mean (UB)	Diazinon P95 (LB)	Diazinon P95 (UB)	Diazinon contrib (LB)	Diazinon contrib (UB)	Dichlorvos mean (LB)	Dichlorvos mean (UB)	Dichlorvos P95 (LB)	Dichlorvos P95 (UB)
Bread and dried bread products	0.011	0.028	53.5	7.2	0.000	0.011	0.000	0.028	0.0	6.5	0.000	0.008	0.000	0.020
Breakfast cereals	0.000	0.006	0.0	0.8	0.000	0.003	0.000	0.014	0.0	1.7	0.000	0.002	0.000	0.010
Pasta	0.000	0.011	0.0	2.5	0.000	0.009	0.000	0.025	0.0	5.4	0.000	0.006	0.000	0.018
Rice and wheat products	0.001	0.010	1.2	1.5	0.000	0.005	0.000	0.020	0.0	3.0	0.000	0.004	0.000	0.015
Croissant-like pastries	0.003	0.012	4.6	1.7	0.000	0.004	0.000	0.016	0.0	2.1	0.000	0.003	0.000	0.011
Sweet and savoury biscuits and bars	0.007	0.026	22.5	3.7	0.000	0.003	0.000	0.014	0.0	2.1	0.000	0.004	0.000	0.015
Pastries and cakes	0.000	0.010	0.0	2.0	0.000	0.007	0.000	0.024	0.0	4.2	0.000	0.005	0.000	0.017
Milk	0.000	0.019	0.0	3.7	0.000	0.009	0.000	0.032	0.0	5.7	0.000	0.009	0.000	0.032
Ultra-fresh dairy products	0.000	0.008	0.0	1.7	0.000	0.005	0.000	0.017	0.0	3.2	0.000	0.001	0.000	0.007
Cheese	0.000	0.002	0.0	0.3	0.000	0.002	0.000	0.006	0.0	1.0				
Eggs and egg products	0.000	0.002	0.0	0.2	0.000	0.001	0.000	0.005	0.0	0.6				
Butter	0.000	0.001	0.0	0.2	0.000	0.001	0.000	0.003	0.0	0.5				
Meat	0.000	0.005	0.0	1.2	0.000	0.004	0.000	0.010	0.0	2.2				
Poultry and game	0.000	0.003	0.0	0.6	0.000	0.002	0.000	0.006	0.0	1.1				
Offal	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0				
Delicatessen meats	0.000	0.003	0.0	0.7	0.000	0.002	0.000	0.007	100.0	1.4				
Fish	0.000	0.002	0.0	0.2	0.000	0.001	0.000	0.003	0.0	0.4	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.000	0.102	0.1	23.4	0.000	0.018	0.000	0.048	0.0	10.8	0.000	0.073	0.000	0.211
Potatoes and potato products	0.000	0.023	0.0	5.8	0.000	0.011	0.000	0.032	0.0	6.6	0.000	0.039	0.000	0.103
Pulses	0.002	0.010	0.6	0.5	0.000	0.001	0.000	0.010	0.0	0.5	0.000	0.004	0.000	0.052
Fruits	0.000	0.022	2.3	4.4	0.000	0.006	0.000	0.021	0.0	3.9	0.000	0.021	0.000	0.067
Dried fruits, nuts and seeds	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts	0.000	0.007	0.0	0.0	0.000	0.000	0.000	0.016	0.0	0.1	0.000	0.000	0.000	0.011
Chocolate	0.000	0.004	0.0	0.4	0.000	0.001	0.000	0.004	0.0	0.4	0.000	0.001	0.000	0.007
Sugars and sugar derivatives	0.000	0.004	0.0	0.3	0.000	0.001	0.000	0.009	0.0	0.5	0.000	0.001	0.000	0.007
Water	0.000	0.049	0.0	6.0	0.000	0.009	0.000	0.049	0.0	5.5	0.000	0.017	0.000	0.097
Soft drinks	0.000	0.074	0.0	15.8	0.000	0.024	0.000	0.075	0.0	14.7	0.000	0.048	0.000	0.147
Alcoholic beverages	0.000	0.015	0.0	0.1	0.000	0.000	0.000	0.015	0.0	0.1	0.000	0.000	0.000	0.030
Coffee	0.000	0.029	0.0	0.3	0.000	0.000	0.000	0.029	0.0	0.3	0.000	0.001	0.000	0.058
Other hot beverages	0.000	0.029	0.0	2.3	0.000	0.003	0.000	0.029	0.0	2.1	0.000	0.007	0.000	0.058
Pizzas, quiches and savoury pastries	0.000	0.010	0.0	1.3	0.000	0.002	0.000	0.011	0.0	1.1	0.000	0.011	0.000	0.074
Sandwiches and snacks	0.009	0.013	11.4	1.2	0.000	0.001	0.000	0.009	0.0	0.8	0.000	0.008	0.000	0.056
Soups and broths	0.000	0.042	0.0	3.8	0.000	0.006	0.000	0.042	0.0	3.5	0.000	0.035	0.000	0.251
Mixed dishes	0.003	0.020	3.7	3.5	0.000	0.005	0.000	0.019	0.0	3.2	0.000	0.030	0.000	0.123
Dairy-based desserts	0.000	0.005	0.0	0.7	0.000	0.002	0.000	0.010	0.0	1.1	0.000	0.002	0.000	0.010
Compotes and cooked fruit	0.000	0.013	0.0	1.3	0.000	0.005	0.000	0.031	0.0	2.8	0.000	0.003	0.000	0.022
Seasonings and sauces	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.003	0.000	0.020
TOTAL	**0.018**	**0.300**	**100.0**	**100.0**	**0.000**	**0.164**	**0.000**	**0.315**	**100.0**	**100.0**	**0.000**	**0.345**	**0.000**	**0.680**

Food group	Dichlorvos contrib (LB)	Dichlorvos contrib (UB)	Dimethoate mean (LB)	Dimethoate mean (UB)	Dimethoate P95 (LB)	Dimethoate P95 (UB)	Dimethoate contrib (LB)	Dimethoate contrib (UB)	Disulfoton mean (UB)	Disulfoton P95 (UB)	Disulfoton contrib (UB)	Ethion mean (LB)	Ethion mean (UB)
Bread and dried bread products	0.0	2.2	0.000	0.053	0.000	0.139	0.0	4.4				0.000	0.008
Breakfast cereals	0.0	0.6	0.000	0.014	0.000	0.070	0.0	1.2				0.000	0.002
Pasta	0.0	1.8	0.000	0.044	0.000	0.125	0.0	3.7				0.000	0.006
Rice and wheat products	0.0	1.0	0.000	0.025	0.000	0.102	0.0	2.1				0.000	0.004
Croissant-like pastries	0.0	0.7	0.000	0.018	0.000	0.079	0.0	1.5				0.000	0.003
Sweet and savoury biscuits and bars	0.0	1.1	0.000	0.019	0.000	0.074	0.0	1.6				0.000	0.003
Pastries and cakes	0.0	1.4	0.000	0.035	0.000	0.120	0.0	2.9				0.000	0.005
Milk	0.0	2.7	0.000	0.038	0.000	0.128	0.0	3.1				0.000	0.009
Ultra-fresh dairy products	0.0	0.2	0.000	0.017	0.000	0.055	0.0	1.4	0.028	0.101	18.2	0.000	0.004
Cheese			0.000	0.003	0.000	0.011	0.0	0.3				0.000	0.001
Eggs and egg products			0.000	0.002	0.000	0.011	0.0	0.2				0.000	0.001
Butter			0.000	0.002	0.000	0.006	0.0	0.1				0.000	0.000
Meat			0.000	0.007	0.000	0.019	0.0	0.6				0.000	0.002
Poultry and game			0.000	0.004	0.000	0.013	0.0	0.3				0.000	0.001
Offal			0.000	0.000	0.000	0.005	0.0	0.0				0.000	0.000
Delicatessen meats			0.000	0.004	0.000	0.014	0.0	0.4				0.000	0.001
Fish	0.0	0.2	0.000	0.002	0.000	0.010	0.0	0.2				0.000	0.001
Crustaceans and molluscs	0.0	0.0	0.000	0.000	0.000	0.004	0.0	0.0				0.000	0.000
Vegetables (excluding potatoes)	0.0	21.0	0.000	0.116	0.000	0.313	0.8	9.6	0.026	0.081	17.3	0.000	0.010
Potatoes and potato products	0.0	11.3	0.000	0.083	0.000	0.343	0.0	6.9				0.000	0.011
Pulses	0.0	1.2	0.000	0.004	0.000	0.046	0.0	0.3				0.000	0.001
Fruits	100.0	6.0	0.020	0.092	0.091	0.293	99.2	7.6	0.021	0.067	13.4	0.000	0.007
Dried fruits, nuts and seeds	0.0	0.0	0.000	0.001	0.000	0.018	0.0	0.1				0.000	0.000
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.001	0.000	0.079	0.0	0.1				0.000	0.000
Chocolate	0.0	0.4	0.000	0.009	0.000	0.052	0.0	0.8	0.001	0.007	0.8	0.000	0.001
Sugars and sugar derivatives	0.0	0.2	0.000	0.005	0.000	0.051	0.0	0.4	0.000	0.005	0.1	0.000	0.001
Water	0.0	5.0	0.000	0.116	0.000	0.678	0.0	9.6	0.017	0.097	11.1	0.000	0.009
Soft drinks	0.0	13.8	0.000	0.334	0.000	1.032	0.0	27.7	0.047	0.151	30.8	0.000	0.024
Alcoholic beverages	0.0	0.1	0.000	0.003	0.000	0.210	0.0	0.2	0.000	0.030	0.2	0.000	0.000
Coffee	0.0	0.3	0.000	0.007	0.000	0.409	0.0	0.6	0.001	0.058	0.6	0.000	0.000
Other hot beverages	0.0	2.0	0.000	0.048	0.000	0.403	0.0	4.0	0.007	0.058	4.4	0.000	0.003
Pizzas, quiches and savoury pastries	0.0	3.2	0.000	0.009	0.000	0.051	0.0	0.8	0.001	0.022	0.9	0.000	0.002
Sandwiches and snacks	0.0	2.4	0.000	0.006	0.000	0.043	0.0	0.5				0.000	0.001
Soups and broths	0.0	10.0	0.000	0.027	0.000	0.192	0.0	2.2				0.002	0.008
Mixed dishes	0.0	8.7	0.000	0.026	0.000	0.101	0.0	2.2	0.003	0.024	2.0	0.000	0.005
Dairy-based desserts	0.0	0.6	0.000	0.007	0.000	0.036	0.0	0.5				0.000	0.002
Compotes and cooked fruit	0.0	0.9	0.000	0.023	0.000	0.156	0.0	1.9				0.000	0.003
Seasonings and sauces	0.0	0.7	0.000	0.002	0.000	0.013	0.0	0.2				0.000	0.000
TOTAL	**100.0**	**100.0**	**0.020**	**1.204**	**0.025**	**2.513**	**100.0**	**100.0**	**0.153**	**0.359**	**100.0**	**0.002**	**0.138**

Food group	Ethion P95 (LB)	Ethion P95 (UB)	Ethion contrib (LB)	Ethion contrib (UB)	Fenitrothion mean (LB)	Fenitrothion mean (UB)	Fenitrothion P95 (UB)	Fenitrothion contrib (LB)	Fenitrothion contrib (UB)	Fenthion mean (UB)	Fenthion P95 (UB)	Fenthion contrib (UB)
Bread and dried bread products	0.000	0.020	0.0	5.5	0.000	0.008	0.020	0.0	4.8	0.008	0.020	2.6
Breakfast cereals	0.000	0.010	0.0	1.5	0.000	0.002	0.010	0.0	1.3	0.002	0.010	0.7
Pasta	0.000	0.018	0.0	4.6	0.000	0.006	0.018	0.0	4.0	0.006	0.018	2.2
Rice and wheat products	0.000	0.015	0.0	2.6	0.000	0.004	0.015	0.0	2.2	0.004	0.015	1.2
Croissant-like pastries	0.000	0.011	0.0	1.8	0.000	0.003	0.011	0.0	1.6	0.003	0.011	0.9
Sweet and savoury biscuits and bars	0.000	0.010	0.0	1.8	0.000	0.002	0.010	0.0	1.6	0.003	0.010	0.9
Pastries and cakes	0.000	0.017	0.0	3.6	0.000	0.005	0.017	0.0	3.1	0.005	0.017	1.7
Milk	0.000	0.032	0.0	6.8	0.000	0.006	0.019	0.0	3.5	0.028	0.096	9.8
Ultra-fresh dairy products	0.000	0.014	0.0	3.1	0.000	0.003	0.010	0.0	1.9	0.020	0.061	6.8
Cheese	0.000	0.003	0.0	0.6	0.000	0.001	0.003	0.0	0.5	0.003	0.011	1.2
Eggs and egg products	0.000	0.003	0.0	0.4	0.000	0.001	0.005	0.0	0.6	0.003	0.016	1.1
Butter	0.000	0.001	0.0	0.3	0.000	0.000	0.001	0.0	0.3	0.002	0.006	0.6
Meat	0.000	0.005	0.0	1.3	0.000	0.002	0.005	0.0	1.1	0.009	0.024	3.1
Poultry and game	0.000	0.003	0.0	0.7	0.000	0.001	0.003	0.0	0.6	0.005	0.016	1.6
Offal	0.000	0.001	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.006	0.0
Delicatessen meats	0.000	0.004	2.5	0.8	0.000	0.001	0.003	0.0	0.7	0.005	0.017	1.9
Fish	0.000	0.003	0.0	0.4	0.000	0.000	0.002	0.0	0.2	0.002	0.008	0.6
Crustaceans and molluscs	0.000	0.001	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.1
Vegetables (excluding potatoes)	0.000	0.027	0.0	7.3	0.000	0.036	0.106	100.0	22.9	0.030	0.084	10.4
Potatoes and potato products	0.000	0.032	0.0	7.9	0.000	0.009	0.023	0.0	5.5	0.017	0.069	6.0
Pulses	0.000	0.009	0.0	0.6	0.000	0.001	0.009	0.0	0.5	0.001	0.009	0.3
Fruits	0.000	0.021	1.1	4.7	0.000	0.010	0.034	0.0	6.6	0.031	0.101	10.8
Dried fruits, nuts and seeds	0.000	0.003	0.0	0.1	0.000	0.000	0.003	0.0	0.1	0.000	0.003	0.0
Ice creams, sorbets and frozen desserts	0.000	0.011	0.0	0.1	0.000	0.000	0.011	0.0	0.1	0.000	0.011	0.0
Chocolate	0.000	0.004	0.0	0.5	0.000	0.001	0.004	0.0	0.4	0.001	0.007	0.4
Sugars and sugar derivatives	0.000	0.007	0.0	0.5	0.000	0.001	0.007	0.0	0.4	0.001	0.007	0.3
Water	0.000	0.049	0.0	6.6	0.000	0.009	0.049	0.0	5.7	0.017	0.097	5.9
Soft drinks	0.000	0.074	0.0	17.4	0.000	0.024	0.074	0.0	15.1	0.048	0.147	16.5
Alcoholic beverages	0.000	0.015	0.0	0.1	0.000	0.000	0.015	0.0	0.1	0.000	0.030	0.1
Coffee	0.000	0.029	0.0	0.3	0.000	0.000	0.029	0.0	0.3	0.001	0.058	0.3
Other hot beverages	0.000	0.029	0.0	2.5	0.000	0.003	0.029	0.0	2.1	0.007	0.058	2.4
Pizzas, quiches and savoury pastries	0.000	0.011	0.0	1.4	0.000	0.002	0.010	0.0	1.2	0.003	0.013	0.9
Sandwiches and snacks	0.000	0.009	0.0	1.0	0.000	0.001	0.009	0.0	0.9	0.001	0.009	0.5
Soups and broths	0.027	0.055	96.4	5.4	0.000	0.006	0.042	0.0	3.6	0.006	0.042	2.0
Mixed dishes	0.000	0.019	0.0	3.8	0.000	0.005	0.019	0.0	3.2	0.007	0.023	2.3
Dairy-based desserts	0.000	0.008	0.0	1.2	0.000	0.001	0.008	0.0	0.8	0.008	0.040	2.7
Compotes and cooked fruit	0.000	0.022	0.0	2.3	0.000	0.003	0.022	0.0	2.0	0.003	0.022	1.1
Seasonings and sauces	0.000	0.003	0.0	0.3	0.000	0.001	0.003	0.0	0.3	0.001	0.004	0.2
TOTAL	**0.005**	**0.274**	**100.0**	**100.0**	**0.000**	**0.159**	**0.318**	**100.0**	**100.0**	**0.289**	**0.570**	**100.0**

Food group	Malathion mean (LB)	Malathion mean (UB)	Malathion P95 (LB)	Malathion P95 (UB)	Malathion contrib (LB)	Malathion contrib (UB)	Methidathion mean (UB)	Methidathion P95 (UB)	Methidathion contrib (UB)	Mevinphos mean (UB)	Mevinphos P95 (UB)	Mevinphos contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.012	0.0	2.2	0.008	0.020	2.8	0.008	0.020	4.0
Breakfast cereals	0.000	0.001	0.000	0.006	0.0	0.6	0.002	0.010	0.7	0.002	0.010	1.1
Pasta	0.000	0.004	0.000	0.011	0.0	1.8	0.006	0.018	2.3	0.006	0.018	3.3
Rice and wheat products	0.000	0.002	0.000	0.009	0.0	1.0	0.004	0.015	1.3	0.004	0.015	1.8
Croissant-like pastries	0.000	0.002	0.000	0.007	0.0	0.7	0.003	0.011	0.9	0.003	0.011	1.3
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.006	0.0	0.8	0.003	0.012	1.1	0.002	0.010	1.3
Pastries and cakes	0.000	0.003	0.000	0.010	0.0	1.4	0.005	0.017	1.8	0.005	0.017	2.6
Milk	0.000	0.009	0.000	0.032	0.0	4.5	0.009	0.032	3.4	0.009	0.032	4.9
Ultra-fresh dairy products	0.000	0.005	0.000	0.017	0.0	2.5	0.005	0.017	1.9	0.004	0.014	2.2
Cheese	0.000	0.002	0.000	0.006	0.0	0.8	0.002	0.006	0.6	0.001	0.003	0.4
Eggs and egg products	0.000	0.001	0.000	0.005	0.0	0.5	0.001	0.005	0.4	0.001	0.003	0.3
Butter	0.000	0.001	0.000	0.003	0.0	0.4	0.001	0.003	0.3	0.000	0.001	0.2
Meat	0.000	0.004	0.000	0.010	0.0	1.7	0.004	0.010	1.3	0.002	0.005	0.9
Poultry and game	0.000	0.002	0.000	0.006	0.0	0.9	0.002	0.006	0.7	0.001	0.003	0.5
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.002	0.000	0.007	0.0	1.0	0.002	0.007	0.8	0.001	0.003	0.6
Fish	0.000	0.001	0.000	0.003	0.0	0.3	0.001	0.003	0.2	0.001	0.003	0.3
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.023	0.000	0.065	0.0	10.9	0.019	0.054	7.0	0.030	0.084	15.5
Potatoes and potato products	0.000	0.016	0.000	0.043	0.0	7.6	0.032	0.084	11.8	0.008	0.020	4.0
Pulses	0.000	0.001	0.000	0.017	0.0	0.7	0.003	0.043	1.3	0.001	0.009	0.4
Fruits	0.000	0.017	0.000	0.054	0.0	7.9	0.010	0.034	3.8	0.010	0.034	5.4
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.003	0.1	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.0	0.000	0.011	0.0	0.000	0.011	0.1
Chocolate	0.000	0.001	0.000	0.007	0.0	0.6	0.001	0.007	0.5	0.001	0.007	0.7
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.2	0.001	0.007	0.3	0.001	0.007	0.4
Water	0.000	0.017	0.000	0.097	0.0	8.2	0.017	0.097	6.2	0.017	0.097	8.8
Soft drinks	0.000	0.047	0.000	0.147	0.0	22.7	0.048	0.147	17.3	0.048	0.147	24.7
Alcoholic beverages	0.000	0.000	0.000	0.030	0.0	0.2	0.000	0.030	0.1	0.000	0.030	0.2
Coffee	0.000	0.001	0.000	0.058	0.0	0.5	0.001	0.058	0.4	0.001	0.058	0.5
Other hot beverages	0.000	0.007	0.000	0.058	0.0	3.3	0.007	0.058	2.5	0.007	0.058	3.5
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.021	0.0	1.9	0.009	0.052	3.4	0.002	0.011	1.0
Sandwiches and snacks	0.000	0.003	0.000	0.019	0.0	1.3	0.007	0.047	2.5	0.001	0.009	0.7
Soups and broths	0.000	0.012	0.000	0.084	0.0	5.5	0.029	0.209	10.5	0.006	0.042	3.0
Mixed dishes	0.000	0.010	0.001	0.037	100.0	4.8	0.025	0.091	9.1	0.005	0.019	2.7
Dairy-based desserts	0.000	0.002	0.000	0.010	0.0	0.9	0.002	0.011	0.8	0.002	0.008	0.8
Compotes and cooked fruit	0.000	0.002	0.000	0.013	0.0	0.9	0.003	0.022	1.2	0.003	0.022	1.7
Seasonings and sauces	0.000	0.001	0.000	0.006	0.0	0.4	0.002	0.014	0.8	0.000	0.003	0.2
TOTAL	**0.000**	**0.209**	**0.001**	**0.417**	**100.0**	**100.0**	**0.275**	**0.525**	**100.0**	**0.193**	**0.393**	**100.0**

Food group	Monocrotophos mean (UB)	Monocrotophos P95 (UB)	Monocrotophos contrib (UB)	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion mean (UB)	Parathion P95 (UB)	Parathion contrib (UB)
Bread and dried bread products	0.008	0.020	2.6								0.079	6.8
Breakfast cereals	0.002	0.010	0.7								0.040	1.8
Pasta	0.006	0.018	2.1								0.071	5.6
Rice and wheat products	0.004	0.015	1.2								0.059	3.1
Croissant-like pastries	0.003	0.011	0.8								0.045	2.2
Sweet and savoury biscuits and bars	0.003	0.010	0.9				0.000	0.005	0.3		0.040	2.1
Pastries and cakes	0.005	0.017	1.7								0.069	4.4
Milk	0.009	0.032	3.2				0.021	0.070	21.8		0.053	3.5
Ultra-fresh dairy products	0.004	0.014	1.5				0.009	0.030	10.0		0.071	4.6
Cheese	0.001	0.003	0.3				0.002	0.006	2.0		0.036	2.4
Eggs and egg products	0.001	0.003	0.2				0.001	0.006	1.2		0.034	1.4
Butter	0.000	0.001	0.1				0.001	0.003	1.0		0.018	1.2
Meat	0.002	0.005	0.6				0.004	0.010	3.9		0.060	5.0
Poultry and game	0.001	0.003	0.3				0.002	0.007	2.1		0.040	2.6
Offal	0.000	0.001	0.0				0.000	0.003	0.1		0.015	0.1
Delicatessen meats	0.001	0.003	0.4				0.002	0.008	2.5		0.043	3.0
Fish	0.001	0.003	0.2				0.001	0.005	1.4		0.004	0.2
Crustaceans and molluscs	0.000	0.001	0.0				0.000	0.002	0.1		0.001	0.0
Vegetables (excluding potatoes)	0.030	0.087	10.2	0.026	0.081	94.4	0.001	0.018	1.3		0.184	14.8
Potatoes and potato products	0.013	0.035	4.5				0.013	0.035	14.3		0.046	3.9
Pulses	0.001	0.018	0.5				0.001	0.017	1.4		0.023	0.4
Fruits	0.021	0.067	7.0								0.037	2.4
Dried fruits, nuts and seeds	0.000	0.003	0.0								0.010	0.1
Ice creams, sorbets and frozen desserts	0.000	0.011	0.0								0.045	0.1
Chocolate	0.003	0.015	0.9								0.007	0.3
Sugars and sugar derivatives	0.001	0.009	0.3								0.025	0.6
Water	0.033	0.194	11.1	0.001	0.003	4.1	0.001	0.003	1.2		0.097	3.8
Soft drinks	0.095	0.295	31.8								0.151	10.9
Alcoholic beverages	0.001	0.060	0.2								0.030	0.1
Coffee	0.002	0.117	0.6								0.058	0.2
Other hot beverages	0.014	0.115	4.6								0.058	1.5
Pizzas, quiches and savoury pastries	0.004	0.021	1.3				0.004	0.023	4.3		0.023	0.9
Sandwiches and snacks	0.003	0.019	0.9				0.003	0.019	2.9		0.019	0.6
Soups and broths	0.012	0.084	3.9				0.012	0.084	12.2		0.084	2.6
Mixed dishes	0.010	0.039	3.5				0.011	0.039	11.3		0.039	2.4
Dairy-based desserts	0.002	0.009	0.6				0.004	0.018	3.8		0.035	1.3
Compotes and cooked fruit	0.003	0.022	1.1								0.089	2.9
Seasonings and sauces	0.001	0.006	0.3				0.001	0.006	1.0		0.008	0.3
TOTAL	**0.298**	**0.644**	**100.0**	**0.028**	**0.079**	**100.0**	**0.095**	**0.201**	**100.0**	**0.451**	**0.840**	**100.0**

Food group	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)	Phosalone mean (LB)	Phosalone mean (UB)	Phosalone P95 (LB)	Phosalone P95 (UB)	Phosalone contrib (LB)	Phosalone contrib (UB)	Phosmet mean (LB)	Phosmet mean (UB)	Phosmet P95 (LB)	Phosmet P95 (UB)
Bread and dried bread products	0.153	0.397	14.7	0.000	0.005	0.000	0.012	0.0	2.0	0.000	0.008	0.000	0.020
Breakfast cereals	0.041	0.199	3.9	0.000	0.001	0.000	0.006	0.0	0.5	0.000	0.002	0.000	0.010
Pasta	0.126	0.357	12.1	0.000	0.004	0.000	0.011	0.0	1.6	0.000	0.006	0.000	0.018
Rice and wheat products	0.071	0.293	6.8	0.000	0.002	0.000	0.009	0.0	0.9	0.000	0.004	0.000	0.015
Croissant-like pastries	0.050	0.224	4.8	0.000	0.002	0.000	0.007	0.0	0.7	0.000	0.003	0.000	0.011
Sweet and savoury biscuits and bars	0.046	0.200	4.4	0.000	0.002	0.000	0.007	0.0	0.7	0.000	0.003	0.000	0.010
Pastries and cakes	0.099	0.343	9.5	0.000	0.003	0.000	0.010	0.0	1.3	0.000	0.005	0.000	0.017
Milk	0.027	0.093	2.6	0.000	0.009	0.000	0.032	0.0	4.1	0.000	0.019	0.000	0.064
Ultra-fresh dairy products	0.020	0.068	1.9	0.000	0.005	0.000	0.017	0.0	2.3	0.000	0.011	0.000	0.034
Cheese	0.009	0.030	0.8	0.000	0.002	0.000	0.006	0.0	0.7	0.000	0.003	0.000	0.011
Eggs and egg products	0.006	0.033	0.6	0.000	0.001	0.000	0.005	0.0	0.4	0.000	0.002	0.000	0.011
Butter	0.004	0.015	0.4	0.000	0.001	0.000	0.003	0.0	0.4	0.000	0.002	0.000	0.006
Meat	0.023	0.059	2.2	0.000	0.004	0.000	0.010	0.0	1.6	0.000	0.007	0.000	0.019
Poultry and game	0.011	0.039	1.1	0.000	0.002	0.000	0.006	0.0	0.8	0.000	0.004	0.000	0.013
Offal	0.000	0.015	0.0	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.005
Delicatessen meats	0.014	0.043	1.3	0.000	0.002	0.000	0.007	0.5	1.0	0.000	0.004	0.000	0.014
Fish	0.002	0.007	0.2	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.005
Crustaceans and molluscs	0.000	0.003	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002
Vegetables (excluding potatoes)	0.068	0.202	6.6	0.000	0.036	0.000	0.105	0.0	15.7	0.000	0.011	0.000	0.029
Potatoes and potato products				0.000	0.017	0.000	0.044	0.0	7.2	0.000	0.011	0.000	0.032
Pulses	0.002	0.163	0.2	0.000	0.001	0.000	0.017	0.0	0.6	0.000	0.001	0.000	0.018
Fruits	0.024	0.084	2.3	0.005	0.024	0.030	0.082	99.5	10.3	0.003	0.022	0.017	0.072
Dried fruits, nuts and seeds	0.003	0.050	0.3	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts	0.002	0.226	0.2	0.000	0.000	0.000	0.007	0.0	0.0	0.000	0.000	0.000	0.011
Chocolate	0.003	0.015	0.2	0.000	0.001	0.000	0.007	0.0	0.6	0.000	0.001	0.000	0.007
Sugars and sugar derivatives	0.012	0.124	1.2	0.000	0.001	0.000	0.005	0.0	0.2	0.000	0.001	0.000	0.007
Water	0.033	0.194	3.2	0.000	0.017	0.000	0.097	0.0	7.4	0.000	0.017	0.000	0.097
Soft drinks	0.103	0.315	9.9	0.000	0.047	0.000	0.147	0.0	20.7	0.000	0.048	0.000	0.147
Alcoholic beverages	0.001	0.060	0.1	0.000	0.000	0.000	0.030	0.0	0.2	0.000	0.000	0.000	0.030
Coffee	0.002	0.117	0.2	0.000	0.001	0.000	0.058	0.0	0.4	0.000	0.001	0.000	0.058
Other hot beverages	0.014	0.115	1.3	0.000	0.007	0.000	0.058	0.0	3.0	0.000	0.007	0.000	0.058
Pizzas, quiches and savoury pastries	0.000	0.006	0.0	0.000	0.004	0.000	0.021	0.0	1.7	0.000	0.002	0.000	0.012
Sandwiches and snacks				0.000	0.003	0.000	0.019	0.0	1.2	0.000	0.001	0.000	0.009
Soups and broths				0.000	0.012	0.000	0.084	0.0	5.0	0.000	0.010	0.000	0.075
Mixed dishes	0.001	0.007	0.1	0.000	0.010	0.000	0.037	0.0	4.4	0.000	0.006	0.000	0.021
Dairy-based desserts	0.006	0.036	0.6	0.000	0.002	0.000	0.010	0.0	0.8	0.000	0.003	0.000	0.019
Compotes and cooked fruit	0.065	0.446	6.2	0.000	0.002	0.000	0.013	0.0	0.8	0.000	0.003	0.000	0.022
Seasonings and sauces	0.001	0.006	0.1	0.000	0.001	0.000	0.006	0.0	0.4	0.000	0.001	0.000	0.003
TOTAL	**1.042**	**2.026**	**100.0**	**0.005**	**0.230**	**0.027**	**0.464**	**100.0**	**100.0**	**0.003**	**0.230**	**0.015**	**0.449**

Food group	Phosmet contrib (LB)	Phosmet contrib (UB)	Phosphamidon mean (UB)	Phosphamidon P95 (UB)	Phosphamidon contrib (UB)	Pyrimiphos methyl mean (LB)	Pyrimiphos methyl mean (UB)	Pyrimiphos methyl P95 (LB)	Pyrimiphos methyl P95 (UB)	Pyrimiphos methyl contrib (LB)	Pyrimiphos methyl contrib (UB)
Bread and dried bread products	0.0	3.3	0.011	0.028	5.5	0.040	0.040	0.111	0.112	34.6	13.6
Breakfast cereals	0.0	0.9	0.003	0.014	1.5	0.002	0.007	0.011	0.041	1.6	2.4
Pasta	0.0	2.7	0.009	0.025	4.5	0.013	0.026	0.037	0.075	11.1	8.8
Rice and wheat products	0.0	1.5	0.005	0.020	2.5	0.010	0.012	0.043	0.050	9.0	4.1
Croissant-like pastries	0.0	1.1	0.004	0.016	1.8	0.015	0.017	0.063	0.074	12.5	5.6
Sweet and savoury biscuits and bars	0.0	1.1	0.003	0.014	1.7	0.014	0.019	0.065	0.086	11.8	6.3
Pastries and cakes	0.0	2.2	0.007	0.024	3.6	0.008	0.015	0.035	0.053	7.1	5.1
Milk	0.0	8.2	0.009	0.032	4.8	0.000	0.019	0.000	0.064	0.0	6.3
Ultra-fresh dairy products	0.0	4.6	0.004	0.014	2.2	0.001	0.008	0.008	0.027	0.8	2.8
Cheese	0.0	1.5	0.001	0.003	0.4	0.000	0.001	0.000	0.003	0.0	0.3
Eggs and egg products	0.0	0.9	0.001	0.003	0.3	0.000	0.001	0.000	0.005	0.0	0.3
Butter	0.0	0.7	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0	0.1
Meat	0.0	3.2	0.002	0.005	0.9	0.000	0.004	0.000	0.010	0.0	1.2
Poultry and game	0.0	1.6	0.001	0.003	0.5	0.000	0.002	0.000	0.006	0.0	0.6
Offal	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.0	1.9	0.001	0.003	0.6	0.000	0.002	0.000	0.007	0.0	0.7
Fish	0.0	0.5	0.001	0.003	0.3	0.000	0.001	0.000	0.005	0.0	0.4
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Vegetables (excluding potatoes)	0.0	4.7	0.030	0.083	15.6	0.000	0.035	0.000	0.102	0.0	11.9
Potatoes and potato products	0.0	4.8				0.000	0.011	0.000	0.032	0.0	3.7
Pulses	0.0	0.6	0.000	0.011	0.1	0.000	0.001	0.005	0.012	0.1	0.3
Fruits	100.0	9.6	0.021	0.067	10.7	0.000	0.006	0.000	0.021	0.0	2.1
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.004	0.1	0.000	0.000	0.000	0.002	0.0	0.0
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.016	0.1	0.000	0.000	0.000	0.007	0.0	0.0
Chocolate	0.0	0.6	0.001	0.007	0.7	0.000	0.001	0.001	0.004	0.1	0.2
Sugars and sugar derivatives	0.0	0.3	0.001	0.010	0.5	0.000	0.000	0.000	0.004	0.0	0.1
Water	0.0	7.4	0.017	0.097	8.8	0.000	0.009	0.000	0.049	0.0	3.1
Soft drinks	0.0	20.8	0.048	0.148	24.6	0.000	0.024	0.000	0.074	0.0	8.0
Alcoholic beverages	0.0	0.2	0.000	0.030	0.2	0.000	0.000	0.000	0.015	0.0	0.1
Coffee	0.0	0.4	0.001	0.058	0.5	0.000	0.000	0.000	0.029	0.0	0.2
Other hot beverages	0.0	3.0	0.007	0.058	3.5	0.000	0.003	0.000	0.029	0.0	1.1
Pizzas, quiches and savoury pastries	0.0	0.9	0.000	0.002	0.1	0.004	0.005	0.021	0.027	3.2	1.7
Sandwiches and snacks	0.0	0.6				0.003	0.004	0.032	0.033	2.8	1.4
Soups and broths	0.0	4.4				0.000	0.006	0.004	0.045	0.2	2.0
Mixed dishes	0.0	2.5	0.000	0.002	0.2	0.006	0.010	0.032	0.041	4.8	3.2
Dairy-based desserts	0.0	1.5	0.002	0.007	0.8	0.000	0.003	0.000	0.016	0.2	1.1
Compotes and cooked fruit	0.0	1.4	0.005	0.031	2.3	0.000	0.002	0.000	0.013	0.0	0.7
Seasonings and sauces	0.0	0.3	0.000	0.000	0.0	0.000	0.001	0.000	0.003	0.0	0.2
TOTAL	**100.0**	**100.0**	**0.195**	**0.401**	**100.0**	**0.116**	**0.297**	**0.238**	**0.555**	**100.0**	**100.0**

Food group	Quinalphos mean (UB)	Quinalphos P95 (UB)	Quinalphos contrib (UB)	Sulfotep mean (UB)	Sulfotep P95 (UB)	Sulfotep contrib (UB)	Thiometon mean (UB)	Thiometon P95 (UB)	Thiometon contrib (UB)
Bread and dried bread products	0.011	0.028	3.4						
Breakfast cereals	0.003	0.014	0.9						
Pasta	0.009	0.025	2.8						
Rice and wheat products	0.005	0.020	1.6						
Croissant-like pastries	0.004	0.016	1.1						
Sweet and savoury biscuits and bars	0.004	0.015	1.2						
Pastries and cakes	0.007	0.024	2.2						
Milk	0.019	0.064	5.9	0.096	0.327	40.2	0.009	0.032	9.0
Ultra-fresh dairy products	0.011	0.034	3.3	0.044	0.140	18.5	0.003	0.012	3.2
Cheese	0.003	0.011	1.1	0.009	0.029	3.6			
Eggs and egg products	0.002	0.011	0.6	0.003	0.013	1.1	0.001	0.003	0.5
Butter	0.002	0.006	0.5	0.004	0.014	1.8			
Meat	0.004	0.010	1.1	0.009	0.024	3.8	0.002	0.005	1.6
Poultry and game	0.002	0.006	0.6	0.005	0.016	1.9	0.001	0.003	0.9
Offal	0.000	0.002	0.0	0.000	0.006	0.0	0.000	0.001	0.0
Delicatessen meats	0.002	0.007	0.7	0.005	0.017	2.3	0.001	0.003	1.0
Fish	0.001	0.005	0.4	0.003	0.013	1.3	0.001	0.003	0.6
Crustaceans and molluscs	0.000	0.002	0.0	0.000	0.004	0.1	0.000	0.001	0.1
Vegetables (excluding potatoes)	0.033	0.093	10.4	0.026	0.081	11.1	0.026	0.081	25.4
Potatoes and potato products	0.031	0.080	9.8						
Pulses	0.003	0.035	0.9						
Fruits	0.021	0.067	6.6	0.021	0.067	8.6	0.021	0.067	19.8
Dried fruits, nuts and seeds	0.000	0.004	0.1						
Ice creams, sorbets and frozen desserts	0.000	0.016	0.0						
Chocolate	0.001	0.007	0.4				0.001	0.004	0.6
Sugars and sugar derivatives	0.001	0.010	0.3				0.000	0.003	0.1
Water	0.017	0.097	5.4	0.001	0.003	0.5	0.009	0.049	8.7
Soft drinks	0.048	0.148	15.1				0.024	0.076	22.6
Alcoholic beverages	0.000	0.030	0.1				0.000	0.015	0.2
Coffee	0.001	0.058	0.3				0.000	0.029	0.5
Other hot beverages	0.007	0.058	2.1				0.003	0.029	3.3
Pizzas, quiches and savoury pastries	0.008	0.042	2.4	0.001	0.022	0.6	0.000	0.002	0.1
Sandwiches and snacks	0.005	0.037	1.7						
Soups and broths	0.023	0.167	7.3						
Mixed dishes	0.021	0.077	6.5	0.003	0.024	1.3	0.000	0.002	0.3
Dairy-based desserts	0.004	0.020	1.2	0.008	0.037	3.2	0.002	0.007	1.5
Compotes and cooked fruit	0.005	0.031	1.4						
Seasonings and sauces	0.002	0.011	0.6	0.000	0.002	0.1	0.000	0.000	0.0
TOTAL	**0.318**	**0.606**	**100.0**	**0.239**	**0.535**	**100.0**	**0.104**	**0.235**	**100.0**

Table G30: Estimated mean contamination of foods by persistent organic pollutants (mg/kg FW)

Food group	Type	Chlordane (LB)	Chlordane (UB)	DDT (LB)	DDT (UB)	Dieldrin (LB)	Dieldrin (UB)	Endrin (LB)	Endrin (UB)	HCB (LB)	HCB (UB)	HCH (LB)	HCH (UB)	Heptachlor (LB)	Heptachlor (UB)	Lindane (LB)	Lindane (UB)	Toxaphene (LB)	Toxaphene (UB)
Bread and dried bread products	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Breakfast cereals	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Pasta	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Rice and wheat products	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Croissant-like pastries	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Sweet and savoury biscuits and bars	R	0	0.006	0	0.010	0	0.009	0	0.005	0	0.004	0	0.011	0	0.012	0	0.017		
Pastries and cakes	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Milk	R	0	0.007	0	0.007	0	0.003	0	0.001	0	0.001	0	0.003	0	0.003	0	0.001	0	0.002
Ultra-fresh dairy products	R	0	0.007	0	0.007	0	0.003	0	0.001	0	0.001	0	0.003	0	0.003	0	0.001	0	0.002
Cheese	R	0	0.003	0	0.004	0	0.003	0	0.001	0	0.001	0	0.003	0	0.003	0	0.001	0	0.002
Eggs and egg products	R	0	0.003	0	0.007	0	0.003	0	0.001	0	0.002	0	0.003	0	0.004	0.0001	0.004	0	0.002
Butter	N	0	0.003	0	0.004	0	0.003	0	0.001	0	0.001	0	0.003	0	0.003	0	0.001	0	0.002
Meat	R	0	0.003	0	0.004	0	0.003	0	0.001	0	0.002	0	0.003	0	0.003	0.00003	0.002	0	0.002
Poultry and game	R	0	0.003	0	0.004	0	0.003	0	0.001	0.00003	0.002	0	0.003	0	0.003	0.0007	0.002	0	0.002
Offal	R	0	0.003	0	0.004	0	0.003	0	0.001	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Delicatessen meats	R	0	0.003	0	0.004	0	0.003	0	0.001	0.0001	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Fish	R	0	0.007	0	0.007	0	0.003	0	0.001	0	0.001	0	0.003	0	0.003	0	0.001	0	0.002
Crustaceans and molluscs	R	0	0.007	0	0.007	0	0.003	0	0.001	0	0.001	0	0.003	0	0.003	0	0.001	0	0.002
Vegetables (excluding potatoes)	R	0	0.017	0	0.051	0	0.010	0	0.017	0	0.005	0	0.014	0	0.050	0	0.008		
Potatoes and potato products	R					0	0.013			0	0.005	0	0.020			0	0.007		
Pulses	R	0	0.006	0	0.010	0	0.010	0	0.005	0	0.004	0	0.009	0	0.012	0	0.013		
Fruits	R	0	0.003	0	0.016	0	0.006	0	0.003	0	0.003	0	0.009	0	0.009	0	0.003		
Dried fruits, nuts and seeds	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Chocolate	N			0	0.010	0	0.015	0	0.005	0	0.005	0	0.009	0	0.010	0	0.005		
Sugars and sugar derivatives	N	0	0.006	0	0.010	0	0.012	0	0.005	0	0.004	0	0.009	0	0.011	0	0.013		
Water	R	0	0.0001	0	0.0001	0	0.00002	0	0.0001	0	0.0001	0	0.0001	0	0.00002	0	0.00003	0	0.0001
Soft drinks	N	0	0.006	0	0.010	0	0.015	0	0.005	0	0.005	0	0.009	0	0.010	0	0.006		
Alcoholic beverages	N			0	0.010	0	0.015	0	0.005	0	0.005	0	0.009	0	0.010	0	0.005		
Coffee	R			0	0.010	0	0.015	0	0.005	0	0.005	0	0.009	0	0.010	0	0.005		
Other hot beverages	R			0	0.010	0	0.015	0	0.005	0	0.005	0	0.009	0	0.010	0	0.005		
Pizzas, quiches and savoury pastries	N	0	0.007	0	0.007	0	0.007	0	0.001	0	0.003	0	0.003	0	0.003	0	0.003	0	0.002
Sandwiches and snacks	R					0	0.012			0	0.005					0	0.005		
Soups and broths	R					0	0.012			0	0.005					0	0.005		
Mixed dishes	R	0	0.005	0	0.006	0	0.011	0	0.001	0	0.005	0	0.003	0	0.003	0	0.004	0	0.002
Dairy-based desserts	R	0	0.006	0	0.007	0	0.004	0	0.001	0	0.002	0	0.003	0	0.003	0	0.002	0	0.002
Compotes and cooked fruit	N	0	0.006	0	0.010	0	0.008	0	0.005	0	0.003	0	0.009	0	0.012	0	0.020		
Seasonings and sauces	N	0	0.003	0	0.007	0	0.009	0	0.001	0	0.004	0	0.003	0	0.004	0	0.004	0	0.002

Table G31: Estimated exposure (mean and P95) in adults to POPs (µg/kg bw/day) and contribution of foods (%)

Food group	Chlordane mean (UB)	Chlordane P95 (UB)	Chlordane contrib (UB)	DDT mean (UB)	DDT P95 (UB)	DDT contrib (UB)	Dieldrin mean (UB)	Dieldrin P95 (UB)	Dieldrin contrib (UB)	Endrin mean (UB)	Endrin P95 (UB)	Endrin contrib (UB)
Bread and dried bread products	0.010	0.023	11.9	0.016	0.038	5.6	0.013	0.031	4.6	0.008	0.019	7.2
Breakfast cereals	0.000	0.008	0.4	0.001	0.013	0.2	0.000	0.010	0.2	0.000	0.006	0.2
Pasta	0.003	0.011	4.1	0.006	0.018	1.9	0.005	0.014	1.6	0.003	0.009	2.5
Rice and wheat products	0.002	0.009	2.7	0.004	0.015	1.3	0.003	0.012	1.0	0.002	0.008	1.6
Croissant-like pastries	0.001	0.006	1.1	0.001	0.011	0.5	0.001	0.009	0.4	0.001	0.005	0.7
Sweet and savoury biscuits and bars	0.001	0.005	0.8	0.001	0.008	0.4	0.001	0.007	0.4	0.001	0.004	0.5
Pastries and cakes	0.003	0.010	3.2	0.004	0.017	1.5	0.004	0.014	1.2	0.002	0.008	2.0
Milk	0.008	0.045	10.3	0.009	0.047	3.0	0.003	0.018	1.2	0.001	0.007	1.1
Ultra-fresh dairy products	0.007	0.023	8.9	0.008	0.025	2.7	0.003	0.010	1.2	0.001	0.004	1.1
Cheese	0.001	0.004	1.7	0.002	0.005	0.6	0.001	0.004	0.5	0.000	0.001	0.4
Eggs and egg products	0.001	0.003	0.9	0.002	0.006	0.5	0.001	0.003	0.3	0.000	0.001	0.2
Butter	0.001	0.002	0.6	0.001	0.002	0.2	0.001	0.002	0.2	0.000	0.000	0.1
Meat	0.002	0.006	2.8	0.003	0.007	1.0	0.002	0.006	0.8	0.001	0.002	0.6
Poultry and game	0.001	0.005	1.6	0.002	0.006	0.6	0.001	0.005	0.5	0.000	0.002	0.4
Offal	0.000	0.002	0.1	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.001	0.0
Delicatessen meats	0.001	0.004	1.7	0.002	0.005	0.6	0.001	0.004	0.5	0.000	0.001	0.4
Fish	0.001	0.005	1.5	0.001	0.006	0.4	0.000	0.002	0.2	0.000	0.001	0.2
Crustaceans and molluscs	0.000	0.003	0.4	0.000	0.003	0.1	0.000	0.001	0.1	0.000	0.000	0.0
Vegetables (excluding potatoes)	0.025	0.063	30.8	0.074	0.190	25.9	0.016	0.038	5.6	0.025	0.062	21.9
Potatoes and potato products							0.011	0.029	3.9			
Pulses	0.000	0.006	0.1	0.000	0.010	0.1	0.001	0.012	0.4	0.000	0.005	0.1
Fruits	0.006	0.019	7.4	0.031	0.096	10.7	0.012	0.038	4.3	0.006	0.019	5.4
Dried fruits, nuts and seeds	0.000	0.003	0.3	0.000	0.005	0.1	0.000	0.004	0.1	0.000	0.002	0.2
Ice creams, sorbets and frozen desserts	0.000	0.003	0.0	0.000	0.004	0.0	0.000	0.004	0.0	0.000	0.002	0.0
Chocolate				0.001	0.004	0.2	0.001	0.006	0.3	0.000	0.002	0.2
Sugars and sugar derivatives	0.001	0.005	1.0	0.002	0.009	0.6	0.001	0.008	0.5	0.001	0.005	0.7
Water	0.001	0.002	1.0	0.025	0.143	8.6	0.037	0.217	12.9	0.013	0.071	11.4
Soft drinks	0.000	0.007	0.1	0.017	0.091	6.0	0.026	0.138	9.2	0.009	0.045	7.7
Alcoholic beverages				0.019	0.087	6.5	0.029	0.132	10.0	0.009	0.043	8.4
Coffee				0.033	0.120	11.3	0.050	0.183	17.4	0.016	0.060	14.6
Other hot beverages				0.020	0.135	7.1	0.031	0.206	10.9	0.010	0.068	9.1
Pizzas, quiches and savoury pastries	0.000	0.006	0.4	0.000	0.006	0.1	0.003	0.018	1.0	0.000	0.001	0.0
Sandwiches and snacks							0.002	0.022	0.8			
Soups and broths							0.013	0.077	4.5			
Mixed dishes	0.000	0.005	0.3	0.000	0.005	0.1	0.007	0.031	2.3	0.000	0.001	0.0
Dairy-based desserts	0.002	0.011	2.2	0.002	0.013	0.7	0.001	0.007	0.4	0.000	0.002	0.3
Compotes and cooked fruit	0.001	0.011	1.5	0.002	0.018	0.7	0.002	0.015	0.6	0.001	0.009	0.9
Seasonings and sauces	0.000	0.001	0.1	0.000	0.001	0.0	0.001	0.004	0.2	0.000	0.000	0.0
TOTAL	**0.081**	**0.143**	**100.0**	**0.288**	**0.506**	**100.0**	**0.285**	**0.523**	**100.0**	**0.112**	**0.203**	**100.0**

Food group	HCB mean (LB)	HCB mean (UB)	HCB P95 (LB)	HCB P95 (UB)	HCB contrib (LB)	HCB contrib (UB)	HCH mean (UB)	HCH P95 (UB)	HCH contrib (UB)	Heptachlor mean (UB)	Heptachlor P95 (UB)	Heptachlor contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.011	0.0	4.7	0.014	0.033	6.9	0.019	0.045	7.281
Breakfast cereals	0.000	0.000	0.000	0.004	0.0	0.2	0.000	0.011	0.2	0.001	0.015	0.238
Pasta	0.000	0.002	0.000	0.005	0.0	1.6	0.005	0.016	2.4	0.007	0.021	2.516
Rice and wheat products	0.000	0.001	0.000	0.005	0.0	1.1	0.003	0.014	1.6	0.004	0.018	1.660
Croissant-like pastries	0.000	0.000	0.000	0.003	0.0	0.4	0.001	0.010	0.6	0.002	0.013	0.670
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.003	0.0	0.4	0.001	0.008	0.6	0.001	0.010	0.500
Pastries and cakes	0.000	0.001	0.000	0.005	0.0	1.3	0.004	0.015	1.9	0.005	0.020	1.981
Milk	0.000	0.001	0.000	0.007	0.0	1.2	0.004	0.022	2.0	0.004	0.020	1.412
Ultra-fresh dairy products	0.000	0.001	0.000	0.004	0.0	1.1	0.004	0.012	1.9	0.004	0.011	1.334
Cheese	0.000	0.000	0.000	0.001	0.0	0.4	0.001	0.004	0.6	0.001	0.003	0.455
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.3	0.001	0.003	0.3	0.001	0.003	0.295
Butter	0.000	0.000	0.000	0.000	0.0	0.2	0.001	0.002	0.3	0.000	0.001	0.179
Meat	0.000	0.001	0.000	0.003	0.0	1.1	0.002	0.006	1.1	0.002	0.005	0.760
Poultry and game	0.000	0.001	0.000	0.003	33.1	0.7	0.001	0.005	0.6	0.001	0.005	0.445
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.023
Delicatessen meats	0.000	0.001	0.000	0.002	66.9	0.7	0.001	0.004	0.6	0.001	0.003	0.456
Fish	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.3	0.001	0.002	0.204
Crustaceans and molluscs	0.000	0.000	0.000	0.000	0.0	0.1	0.000	0.002	0.1	0.000	0.001	0.059
Vegetables (excluding potatoes)	0.000	0.007	0.000	0.017	0.0	7.1	0.020	0.050	9.9	0.073	0.186	27.402
Potatoes and potato products	0.000	0.004	0.000	0.011	0.0	4.1	0.017	0.044	8.1			
Pulses	0.000	0.000	0.000	0.005	0.0	0.4	0.000	0.009	0.1	0.000	0.012	0.073
Fruits	0.000	0.006	0.000	0.019	0.0	5.8	0.018	0.056	8.6	0.018	0.056	6.778
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.004	0.2	0.000	0.006	0.177
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.004	0.0	0.000	0.005	0.024
Chocolate	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.004	0.2	0.001	0.004	0.198
Sugars and sugar derivatives	0.000	0.001	0.000	0.003	0.0	0.5	0.001	0.008	0.7	0.002	0.011	0.715
Water	0.000	0.013	0.000	0.071	0.0	12.4	0.022	0.126	10.6	0.024	0.143	9.142
Soft drinks	0.000	0.009	0.000	0.045	0.0	8.3	0.015	0.080	7.4	0.017	0.091	6.541
Alcoholic beverages	0.000	0.009	0.000	0.043	0.0	9.1	0.017	0.077	8.0	0.019	0.087	7.093
Coffee	0.000	0.016	0.000	0.060	0.0	15.8	0.029	0.106	13.9	0.033	0.120	12.314
Other hot beverages	0.000	0.010	0.000	0.068	0.0	9.8	0.018	0.120	8.7	0.020	0.135	7.685
Pizzas, quiches and savoury pastries	0.000	0.001	0.000	0.008	0.0	1.1	0.000	0.003	0.1	0.000	0.003	0.050
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.9						
Soups and broths	0.000	0.005	0.000	0.032	0.0	5.0						
Mixed dishes	0.000	0.003	0.000	0.013	0.0	2.6	0.000	0.002	0.1	0.000	0.002	0.041
Dairy-based desserts	0.000	0.000	0.000	0.003	0.0	0.4	0.001	0.006	0.5	0.001	0.006	0.345
Compotes and cooked fruit	0.000	0.001	0.000	0.005	0.0	0.6	0.002	0.016	0.9	0.002	0.021	0.932
Seasonings and sauces	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.001	0.0	0.000	0.001	0.022
TOTAL	**0.000**	**0.103**	**0.000**	**0.185**	**100.0**	**100.0**	**0.207**	**0.362**	**100.0**	**0.265**	**0.468**	**100.0**

Food group	Lindane mean (LB)	Lindane mean (UB)	Lindane P95 (LB)	Lindane P95 (UB)	Lindane contrib (LB)	Lindane contrib (UB)	Toxaphene mean (UB)	Toxaphene P95 (UB)	Toxaphene contrib (UB)
Bread and dried bread products	0.000	0.032	0.000	0.075	0.0	18.2			
Breakfast cereals	0.000	0.001	0.000	0.025	0.0	0.6			
Pasta	0.000	0.011	0.000	0.035	0.0	6.3			
Rice and wheat products	0.000	0.007	0.000	0.031	0.0	4.2			
Croissant-like pastries	0.000	0.003	0.000	0.022	0.0	1.7			
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.016	0.0	1.3			
Pastries and cakes	0.000	0.009	0.000	0.033	0.0	5.0			
Milk	0.000	0.001	0.000	0.007	0.0	0.7	0.002	0.011	21.6
Ultra-fresh dairy products	0.000	0.001	0.000	0.004	0.0	0.7	0.002	0.006	20.4
Cheese	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.002	7.0
Eggs and egg products	0.000	0.001	0.000	0.003	1.4	0.4	0.000	0.001	3.7
Butter	0.000	0.000	0.000	0.000	0.0	0.1	0.000	0.001	2.7
Meat	0.000	0.001	0.000	0.003	1.5	0.7	0.001	0.003	11.6
Poultry and game	0.001	0.002	0.012	0.013	97.1	1.0	0.001	0.003	6.8
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.4
Delicatessen meats	0.000	0.001	0.000	0.002	0.0	0.4	0.001	0.002	7.0
Fish	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	3.1
Crustaceans and molluscs	0.000	0.000	0.000	0.000	0.0	0.0	0.000	0.001	0.9
Vegetables (excluding potatoes)	0.000	0.014	0.000	0.033	0.0	7.9			
Potatoes and potato products	0.000	0.006	0.000	0.017	0.0	3.3			
Pulses	0.000	0.001	0.000	0.011	0.0	0.4			
Fruits	0.000	0.006	0.000	0.020	0.0	3.6			
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.009	0.0	0.4			
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.009	0.0	0.1			
Chocolate	0.000	0.000	0.000	0.002	0.0	0.1			
Sugars and sugar derivatives	0.000	0.003	0.000	0.017	0.0	1.6			
Water	0.000	0.013	0.000	0.071	0.0	7.2	0.001	0.002	8.2
Soft drinks	0.000	0.009	0.000	0.048	0.0	5.1			
Alcoholic beverages	0.000	0.009	0.000	0.043	0.0	5.3			
Coffee	0.000	0.016	0.000	0.060	0.0	9.2			
Other hot beverages	0.000	0.010	0.000	0.068	0.0	5.8			
Pizzas, quiches and savoury pastries	0.000	0.001	0.000	0.008	0.0	0.6	0.000	0.001	0.8
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.5			
Soups and broths	0.000	0.005	0.000	0.032	0.0	2.9			
Mixed dishes	0.000	0.003	0.000	0.013	0.0	1.5	0.000	0.001	0.6
Dairy-based desserts	0.000	0.001	0.000	0.004	0.0	0.3	0.000	0.003	5.1
Compotes and cooked fruit	0.000	0.004	0.000	0.036	0.0	2.3			
Seasonings and sauces	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.3
TOTAL	**0.001**	**0.176**	**0.010**	**0.287**	**100.0**	**100.0**	**0.010**	**0.018**	**100.0**

Table G32: Estimated exposure (mean and P95) in children to POPs (µg/kg bw/day) and contribution of foods (%)

Food group	Chlordane mean (UB)	Chlordane P95 (UB)	Chlordane contrib (UB)	DDT mean (UB)	DDT P95 (UB)	DDT contrib (UB)	Dieldrin mean (UB)	Dieldrin P95 (UB)	Dieldrin contrib (UB)	Endrin mean (UB)	Endrin P95 (UB)	Endrin contrib (UB)
Bread and dried bread products	0.009	0.024	6.0	0.015	0.040	4.4	0.012	0.032	4.2	0.008	0.020	6.4
Breakfast cereals	0.002	0.012	1.6	0.004	0.020	1.2	0.003	0.016	1.1	0.002	0.010	1.7
Pasta	0.008	0.021	5.0	0.013	0.036	3.7	0.010	0.029	3.5	0.006	0.018	5.2
Rice and wheat products	0.004	0.018	2.8	0.007	0.029	2.1	0.006	0.024	1.9	0.004	0.015	2.9
Croissant-like pastries	0.003	0.013	2.0	0.005	0.022	1.5	0.004	0.018	1.4	0.003	0.011	2.1
Sweet and savoury biscuits and bars	0.003	0.012	1.8	0.005	0.020	1.3	0.004	0.017	1.4	0.002	0.010	1.9
Pastries and cakes	0.006	0.021	3.9	0.010	0.034	2.9	0.008	0.028	2.7	0.005	0.017	4.1
Milk	0.038	0.128	24.7	0.040	0.135	11.5	0.015	0.053	5.2	0.006	0.019	4.7
Ultra-fresh dairy products	0.015	0.049	10.1	0.017	0.053	4.8	0.008	0.024	2.5	0.003	0.008	2.2
Cheese	0.002	0.006	1.1	0.002	0.007	0.6	0.002	0.006	0.6	0.001	0.002	0.4
Eggs and egg products	0.001	0.005	0.7	0.002	0.011	0.6	0.001	0.005	0.4	0.000	0.002	0.3
Butter	0.001	0.003	0.6	0.001	0.004	0.3	0.001	0.003	0.3	0.000	0.001	0.2
Meat	0.004	0.010	2.4	0.005	0.012	1.3	0.004	0.010	1.2	0.001	0.003	0.9
Poultry and game	0.002	0.006	1.2	0.002	0.008	0.7	0.002	0.006	0.6	0.001	0.002	0.5
Offal	0.000	0.002	0.0	0.000	0.003	0.0	0.000	0.002	0.0	0.000	0.001	0.0
Delicatessen meats	0.002	0.007	1.4	0.003	0.009	0.8	0.002	0.007	0.7	0.001	0.002	0.5
Fish	0.002	0.010	1.6	0.003	0.011	0.7	0.001	0.004	0.3	0.000	0.002	0.3
Crustaceans and molluscs	0.000	0.004	0.1	0.000	0.004	0.1	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.030	0.082	19.5	0.088	0.247	25.5	0.020	0.053	6.6	0.029	0.080	24.3
Potatoes and potato products							0.021	0.053	7.0			
Pulses	0.000	0.010	0.1	0.000	0.016	0.1	0.002	0.022	0.6	0.000	0.008	0.1
Fruits	0.006	0.021	4.2	0.032	0.104	9.4	0.013	0.042	4.4	0.006	0.021	5.3
Dried fruits, nuts and seeds	0.000	0.003	0.1	0.000	0.005	0.1	0.000	0.004	0.1	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.014	0.1	0.000	0.023	0.1	0.000	0.018	0.1	0.000	0.011	0.1
Chocolate				0.001	0.007	0.4	0.002	0.011	0.7	0.001	0.004	0.5
Sugars and sugar derivatives	0.001	0.007	0.5	0.001	0.013	0.4	0.001	0.012	0.4	0.001	0.007	0.6
Water	0.001	0.003	0.8	0.017	0.097	5.0	0.025	0.147	8.3	0.009	0.049	7.6
Soft drinks	0.001	0.010	0.3	0.048	0.149	13.9	0.073	0.224	24.5	0.024	0.074	20.0
Alcoholic beverages				0.000	0.030	0.1	0.001	0.046	0.2	0.000	0.015	0.1
Coffee				0.001	0.058	0.3	0.001	0.089	0.5	0.000	0.029	0.4
Other hot beverages				0.007	0.058	2.0	0.010	0.088	3.5	0.003	0.029	2.8
Pizzas, quiches and savoury pastries	0.001	0.009	0.4	0.001	0.009	0.2	0.005	0.026	1.6	0.000	0.001	0.1
Sandwiches and snacks							0.003	0.023	1.1			
Soups and broths							0.014	0.102	4.8			
Mixed dishes	0.001	0.010	0.8	0.001	0.010	0.4	0.013	0.047	4.3	0.000	0.001	0.2
Dairy-based desserts	0.006	0.028	3.8	0.006	0.031	1.9	0.003	0.015	1.0	0.001	0.004	0.8
Compotes and cooked fruit	0.004	0.027	2.5	0.006	0.045	1.9	0.005	0.036	1.8	0.003	0.022	2.7
Seasonings and sauces	0.000	0.001	0.1	0.000	0.002	0.1	0.001	0.007	0.4	0.000	0.000	0.0
TOTAL	**0.153**	**0.306**	**100.0**	**0.345**	**0.705**	**100.0**	**0.296**	**0.588**	**100.0**	**0.120**	**0.246**	**100.0**

Food group	HCB mean (LB)	HCB mean (UB)	HCB P95 (LB)	HCB P95 (UB)	HCB contrib (LB)	HCB contrib (UB)	HCH mean (UB)	HCH P95 (UB)	HCH contrib (UB)	Heptachlor mean (UB)	Heptachlor P95 (UB)	Heptachlor contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.012	0.0	4.1	0.013	0.035	5.5	0.018	0.048	6.1
Breakfast cereals	0.000	0.001	0.000	0.006	0.0	1.1	0.004	0.018	1.5	0.005	0.024	1.6
Pasta	0.000	0.004	0.000	0.011	0.0	3.4	0.011	0.032	4.5	0.015	0.043	5.0
Rice and wheat products	0.000	0.002	0.000	0.009	0.0	1.9	0.006	0.026	2.6	0.008	0.035	2.8
Croissant-like pastries	0.000	0.002	0.000	0.007	0.0	1.4	0.004	0.020	1.8	0.006	0.027	2.0
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.006	0.0	1.4	0.005	0.018	1.9	0.006	0.024	1.9
Pastries and cakes	0.000	0.003	0.000	0.010	0.0	2.7	0.009	0.030	3.6	0.012	0.041	4.0
Milk	0.000	0.006	0.000	0.019	0.0	5.1	0.019	0.064	7.7	0.017	0.058	5.7
Ultra-fresh dairy products	0.000	0.003	0.000	0.008	0.0	2.3	0.009	0.028	3.5	0.008	0.025	2.6
Cheese	0.000	0.001	0.000	0.002	0.0	0.5	0.002	0.006	0.7	0.002	0.005	0.5
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.5	0.001	0.005	0.4	0.001	0.006	0.4
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.3	0.001	0.003	0.3
Meat	0.000	0.002	0.000	0.005	0.0	1.6	0.004	0.010	1.5	0.003	0.009	1.1
Poultry and game	0.000	0.001	0.000	0.004	33.1	0.9	0.002	0.006	0.7	0.002	0.006	0.6
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Delicatessen meats	0.000	0.001	0.000	0.004	66.9	1.0	0.002	0.007	0.9	0.002	0.006	0.7
Fish	0.000	0.000	0.000	0.002	0.0	0.3	0.001	0.005	0.5	0.001	0.005	0.4
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Vegetables (excluding potatoes)	0.000	0.009	0.000	0.024	0.0	8.0	0.025	0.066	10.1	0.086	0.238	28.7
Potatoes and potato products	0.000	0.008	0.000	0.020	0.0	7.0	0.031	0.080	12.7			
Pulses	0.000	0.001	0.000	0.009	0.0	0.7	0.000	0.014	0.1	0.000	0.020	0.1
Fruits	0.000	0.006	0.000	0.021	0.0	5.6	0.019	0.062	7.7	0.019	0.062	6.3
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.1	0.000	0.006	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.1	0.000	0.020	0.1	0.000	0.027	0.1
Chocolate	0.000	0.001	0.000	0.004	0.0	0.6	0.001	0.007	0.5	0.001	0.007	0.4
Sugars and sugar derivatives	0.000	0.000	0.000	0.004	0.0	0.4	0.001	0.012	0.5	0.002	0.016	0.5
Water	0.000	0.009	0.000	0.049	0.0	8.2	0.015	0.086	6.2	0.016	0.097	5.4
Soft drinks	0.000	0.024	0.000	0.074	0.0	21.4	0.042	0.131	17.4	0.048	0.149	16.1
Alcoholic beverages	0.000	0.000	0.000	0.015	0.0	0.2	0.000	0.027	0.1	0.000	0.030	0.1
Coffee	0.000	0.000	0.000	0.029	0.0	0.4	0.001	0.052	0.3	0.001	0.058	0.3
Other hot beverages	0.000	0.003	0.000	0.029	0.0	3.1	0.006	0.051	2.5	0.007	0.058	2.3
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.7	0.000	0.004	0.1	0.000	0.004	0.1
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	1.2						
Soups and broths	0.000	0.006	0.000	0.042	0.0	5.2						
Mixed dishes	0.000	0.005	0.000	0.020	0.0	4.8	0.001	0.005	0.3	0.001	0.004	0.2
Dairy-based desserts	0.000	0.001	0.000	0.006	0.0	1.0	0.003	0.015	1.2	0.003	0.014	0.9
Compotes and cooked fruit	0.000	0.002	0.000	0.013	0.0	1.7	0.006	0.039	2.3	0.008	0.054	2.6
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.4	0.000	0.001	0.0	0.000	0.001	0.0
TOTAL	**0.000**	**0.112**	**0.001**	**0.220**	**100.0**	**100.0**	**0.245**	**0.464**	**100.0**	**0.299**	**0.620**	**100.0**

Food group	Lindane mean (LB)	Lindane mean (UB)	Lindane P95 (LB)	Lindane P95 (UB)	Lindane contrib (LB)	Lindane contrib (UB)	Toxaphene mean (UB)	Toxaphene P95 (UB)	Toxaphene contrib (UB)
Bread and dried bread products	0.000	0.031	0.000	0.079	0.0	12.6			
Breakfast cereals	0.000	0.008	0.000	0.040	0.0	3.4			
Pasta	0.000	0.025	0.000	0.071	0.0	10.4			
Rice and wheat products	0.000	0.014	0.000	0.059	0.0	5.8			
Croissant-like pastries	0.000	0.010	0.000	0.045	0.0	4.2			
Sweet and savoury biscuits and bars	0.000	0.009	0.000	0.040	0.0	3.9			
Pastries and cakes	0.000	0.020	0.000	0.069	0.0	8.2			
Milk	0.000	0.006	0.000	0.019	0.0	2.3	0.009	0.032	40.6
Ultra-fresh dairy products	0.000	0.003	0.000	0.008	0.0	1.1	0.004	0.014	18.7
Cheese	0.000	0.001	0.000	0.002	0.0	0.2	0.001	0.003	3.6
Eggs and egg products	0.000	0.001	0.000	0.006	1.4	0.4	0.001	0.003	2.2
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	1.8
Meat	0.000	0.002	0.000	0.005	1.4	0.8	0.002	0.005	7.8
Poultry and game	0.002	0.002	0.013	0.014	97.2	1.0	0.001	0.003	3.9
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.1
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	0.4	0.001	0.003	4.7
Fish	0.000	0.000	0.000	0.002	0.0	0.2	0.001	0.003	2.6
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.2
Vegetables (excluding potatoes)	0.000	0.018	0.000	0.051	0.0	7.6			
Potatoes and potato products	0.000	0.011	0.000	0.032	0.0	4.5			
Pulses	0.000	0.001	0.000	0.017	0.0	0.5			
Fruits	0.000	0.007	0.000	0.023	0.0	2.9			
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.010	0.0	0.2			
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.045	0.0	0.2			
Chocolate	0.000	0.001	0.000	0.004	0.0	0.3			
Sugars and sugar derivatives	0.000	0.002	0.000	0.025	0.0	1.0			
Water	0.000	0.009	0.000	0.049	0.0	3.8	0.001	0.003	5.0
Soft drinks	0.000	0.025	0.000	0.077	0.0	10.5			
Alcoholic beverages	0.000	0.000	0.000	0.015	0.0	0.1			
Coffee	0.000	0.000	0.000	0.029	0.0	0.2			
Other hot beverages	0.000	0.003	0.000	0.029	0.0	1.4			
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	0.8	0.000	0.002	0.6
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.6			
Soups and broths	0.000	0.006	0.000	0.042	0.0	2.4			
Mixed dishes	0.000	0.005	0.000	0.019	0.0	2.1	0.000	0.002	1.3
Dairy-based desserts	0.000	0.001	0.000	0.008	0.0	0.5	0.002	0.007	6.5
Compotes and cooked fruit	0.000	0.013	0.000	0.089	0.0	5.3			
Seasonings and sauces	0.000	0.001	0.000	0.003	0.0	0.2	0.000	0.000	0.2
TOTAL	**0.002**	**0.242**	**0.011**	**0.460**	**100.0**	**100.0**	**0.023**	**0.052**	**100.0**

The values given in parentheses after the intake and exposure levels correspond to the minimum and maximum mean, 5th and 95th percentile values observed in the various regions.

4.1. Annatto

Annatto (E160b) is an orange food colouring extracted from the fruit of the Annatto tree (*Bixa orellana*). Annatto primarily contains two colouring substances: norbixin and bixin, its main component. Annatto is a fat-soluble carotenoid pigment (WHO 1982; WHO 2007). Maximum limits of use have been set by European regulations for its use as a food additive (dye) in a limited number of foods, and mainly cheeses (from 15 mg/kg for orange, yellow and off-white cheese to 35 mg/kg for Mimolette), margarine (10 mg/kg), dairy-based desserts (10 mg/kg) and ice creams (20 mg/kg) (Directive 94/36/EC).

Hazard characterisation

The no observed adverse effect level (NOAEL) for annatto was set by the SCF at 250 mg/kg bw/day in rats and the Acceptable Daily Intake (ADI) of annatto extract was established in 1979 at 2.5 mg/kg bw/day (i.e. an ADI of 0.065 mg/kg bw/day expressed as bixin) (SCF 1979). EFSA is to re-evaluate annatto as a food additive by the end of 2015 (Regulation 257/2010/EC). For its part, and on the basis of recent toxicological studies undertaken in rats, the Joint FAO/WHO Expert Committee on Food Additives (JECFA) re-evaluated the ADI for annatto in 2007 and set an ADI of 12 mg/kg bw/day for bixin and 0.6 mg/kg/day for norbixin and its sodium and potassium salts.

Risk assessment and characterisation

The percentage of censored data among all of the analysed composite foods likely to contain the substance (59 foods) was 96.6%.

Estimated annatto levels in foods ranged from 0 for the lowerbound (LB) to 9 mg/kg for the upperbound (UB) (Table H1). Annatto was quantified in Edam-type cheeses only with a mean of 8.4 mg/kg for all of the quantified data. All cheeses combined, mean levels ranged from 1.2 mg/kg for the lowerbound to 1.4 mg/kg for the upperbound. The highest mean levels were observed in dried fruits whose mean level (MB) was 4.5 mg/kg and in margarine and ice creams, sorbets and frozen desserts with similar values for the two categories (MB=2.5 mg/kg).

For the lowerbound and upperbound, mean daily exposure was estimated at respectively 0.0001 mg/kg bw/day and 0.002 mg/kg bw/day in adults (0.00009-0.003) (Table H2). In children, mean exposure was estimated at respectively 0.0002 mg/kg bw/day and 0.004 mg/kg bw/day (0.00006-0.006). At the 95th percentile, exposure was estimated at 0.0008 mg/kg bw/day and 0.006 mg/kg bw/day in adults (0.0003-0.007) and at 0.0013 mg/kg bw/day and 0.012 mg/kg bw/day in children (0-0.02). Given that only analyses in cheeses (Edam and similar cheeses) were quantified, they were the only contributors to annatto intake in adults and children for the lowerbound. Very few studies have been published regarding annatto intake. Previous estimates published in France, based on usage data, showed an annatto intake in adults and children of respectively 0.001 to 0.004 mg/kg bw/day and 0.002 to 0.013 mg/kg bw/day (mean value), ice creams being the main contributors, particularly in children (Bemrah, Leblanc *et al.* 2008). In England, annatto is one of the most commonly used natural colouring agents and cases of subjects exceeding the ADI have been observed (MAAF 1987; MAAF 1993).

In the French population, no cases of subjects exceeding the European ADI were observed. The 95th exposure percentile for the upperbound was 8.5% of the ADI in adults (7%-11.3%) and 17.8% in children (14.7%-23.4%). The risk associated with annatto intake is therefore not a public health issue.

4.2. Tartaric acid

Tartaric acid (E334) is the common name of 2,3-dihydroxybutanedioic acid whose molecular formula is $C_4H_6O_6$. It is the main natural acid found in wine (from the grapes) (WHO 1977). It is used in human food as a food additive, mainly as an antioxidant, pH regulator and sequestering agent. It is authorised in most food products and in certain specific products such as cocoa and chocolate products, jams and jellies, canned fruits and vegetables, fresh pasta and biscuits and rusks intended for infants and young children. Its use is not quantitatively limited (*quantum satis*), except in chocolate products (5 g/kg) and biscuits and rusks intended for children (5 g/kg in residue form) (Directive 95/2/EC).

Hazard characterisation

According to the assessments published in the scientific literature, taking into account the results of available long-term studies in animals, the relative chemical inertia of the compound and the fact that it is a natural constituent of food, the group Acceptable Daily Intake (ADI) was set at 30 mg/kg bw/day only for form L(+) tartrate (SCF 1990).

Risk assessment and characterisation

The percentage of censored data among all of the analysed composite foods likely to contain the substance (130 foods) was 83.1%. Tartaric acid levels in foods ranged from 0 to 420 mg/kg (minimum value LB to maximum value UB) (Table H1). The highest mean levels were found in mixed dishes (industrial tabbouleh) with values of 420 mg/kg and in sweet and savoury biscuits and bars whose mean level (medium bound) was 123.7 mg/kg (LB=119.3; UB=131.8).

Mean daily exposure for the lowerbound and upperbound was estimated at respectively 0.03 mg/kg bw/day and 0.08 mg/kg bw/day in adults (0.02-0.09) and at 0.07 mg/kg bw/day and 0.19 mg/kg bw/day in children (0.06-0.2) (Table H2). At the 95th percentile, exposure was estimated at 0.14 mg/kg bw/day and 0.23 mg/kg bw/day in adults (0.11-0.27) and at 0.26 mg/kg bw/day and 0.52 mg/kg bw/day in children (0.2-0.6). In adults, the main contributors to tartaric acid intake were pastries and cakes (37% for the lowerbound and 28% for the upperbound), mixed dishes (35% for the lowerbound and 16% for the upperbound), and vegetables excluding potatoes (14% for the lowerbound and 15% for the upperbound). In children, the main contributors were sweet and savoury biscuits and bars (31% for the lowerbound and 15% for the upperbound), pastries and cakes (31% for the lowerbound and 22% for the upperbound) and mixed dishes (24% for the upperbound assumption only).

The ADI was not exceeded in the population. The 95th exposure percentile for the upperbound was 0.8% of the ADI in adults (0.6%-0.9%) and 1.7% of the ADI in children (1.3%-2%). The risk associated with tartaric acid intake is therefore not a public health issue.

4.3. Sulfites

Sulfites and disulfites (E221-228) are sulfurous acid salts that form after sulfur dioxide (E220) dissolves in water. Their use as preservatives, while authorised in numerous foodstuffs, is regulated by a maximum level of use (Directive 95/2/EC).

Note that the European legislation (Directive 2003/89/EC in particular) provides for the mandatory listing of certain ingredients likely to cause allergies and/or food intolerances on the packaging of foodstuffs (beverages included). This measure also applies to sulfites for concentrations equal to or greater than 10 mg/kg or per litre or expressed in SO_2.

Hazard characterisation

According to the assessments published in the scientific literature, 70 mg/kg bw/day was established as the no observed adverse effect level (NOAEL), which was used to set an Acceptable Daily Intake (ADI) of 0.7 mg/kg bw/day (SCF 1996). EFSA is scheduled to re-evaluate sulfites as food additives by the end of 2015 (Regulation 257/2010/EC).

Sulfites can cause serious reactions in sensitive individuals, and particularly asthma patients. Although the pathogenesis of adverse reactions to sulfites has not been completely clarified, it is unlikely that reactions to sulfites are allergic or cause anaphylactic reactions; most individuals who are sensitive to sulfites develop food intolerance reactions at levels ranging from 20 to 50 mg of sulfites in food.

Risk assessment and characterisation

The percentage of censored data among all of the analysed composite foods likely to contain the substance (200 foods) was 86%. National mean values ranged from 0 to 108 mg/kg (minimum value LB to maximum value UB) (Table H1). The highest levels were observed in sugars and sugar derivatives with a mean (MB) of 107.4 mg/kg, dried fruits with a mean level (MB) of 64 mg/kg and crustaceans and molluscs whose mean level (MB) was 54.4 mg/kg. The alcoholic beverages group had a mean level (MB) of 46.4 mg/L but when considering wine individually, the mean level from the quantified data was 92 mg/L.

For the lowerbound and upperbound, mean daily exposure was estimated at respectively 0.16 mg/kg bw/day and 0.17 mg/kg bw/day (0.14-0.22) in adults (Table H2). In children, mean exposure was estimated at respectively 0.031 mg/kg bw/day and 0.04 mg/kg bw/day (0.03-0.05). At the 95th percentile, for the lowerbound and upperbound, exposure was estimated at 0.59 mg/kg bw/day and 0.60 mg/kg bw/day in adults (0.5-0.8) and at 0.12 mg/kg bw/day and 0.14 mg/kg bw/day in children (0.1-0.2). In adults, the main contributors were similar for the lowerbound and upperbound, i.e. alcoholic beverages (wine, cider, Champagne) contributing respectively 77% (73% for wine, 2% for Champagne and 1% for cider) and 74% (70% for wine, 2% for Champagne and 1% for cider) to total intake, in addition to sugars and sugar derivatives with a contribution of around 21% for both scenarios. In children, the contribution of sugars and sugar derivatives was 86% (LB) and 59% (UB).

These results were comparable with the French results obtained from use values declared by manufacturers (Bemrah, Leblanc *et al.* 2008) where adults had a sulphite intake of 0.2 mg/kg bw/day (on average) and wine was the main contributor (around 71%). A recent publication dealing with sulphite intake in the adult Belgian population also reported total intake of 0.19 mg/kg bw/day with a contribution of 51% for wine (Vandevijvere, Temme *et al.* 2010). These results remained lower than results published in Italy that were calculated based on analytical data and where intake was 0.78 mg/kg bw/day for children and 0.83 mg/kg bw/day for adults (Leclercq, Molinaro *et al.* 2000).

Around 2.9% of adults [2.1; 3.7] exceeded the ADI of 0.7 mg/kg bw/day. No children exceeded the ADI, and the 95th exposure percentile for the upperbound in children was 20.6% of the ADI (16.5%-23.5%). The possibility of risk associated with sulphite intake therefore cannot be excluded for certain consumer groups (large consumers of wine).

4.4. Nitrites

Nitrites (E249-250) are the salts of nitrous acid. They are used as preservatives and inhibit the growth of pathogenic microorganisms such as *Clostridium Botulinum* in meat. Their use is regulated and limited to delicatessen meats and meat products, with a maximum value of use for each application (Directive 95/2/EC).

Hazard characterisation

According to the assessments published in the scientific literature, the no observed adverse effect level (NOAEL) was established at 6.7 mg/kg bw/day based on a long-term study showing an absence of effects on the heart and lungs in rats, which was used to set an ADI of 0.06 mg/kg bw/day (expressed as nitrite ion) applicable to all populations, with the exception of children under the age of 3 months (EFSA 2010b). EFSA is scheduled to re-evaluate nitrites as food additives by the end of 2015 (Regulation 257/2010/EC).

Risk assessment and characterisation

The percentage of censored data among all of the analysed composite foods likely to contain the substance (135 foods) was 96.3%. Mean levels ranged from 0 to 3.4 mg/kg (minimum value LB to maximum value UB) (Table H1). The highest mean levels were found in delicatessen meats at 2.1 mg/kg (LB=1.4 mg/kg; UB=3.4 mg/kg) and in mixed dishes with a value of 1.2 mg/kg (LB=0.5 mg/kg; UB=2.4 mg/kg).

Mean daily exposure for the lowerbound and upperbound was estimated at respectively 0.0008 mg/kg bw/day and 0.002 mg/kg bw/day in adults (0.0005-0.003) and at 0.0014 mg/kg and 0.004 mg/kg bw/day in children (0.0008-0.005) (Table H2). At the 95th percentile, exposure was estimated at 0.002 mg/kg bw/day and 0.007 mg/kg bw/day in adults (0.002-0.008) and at 0.004 mg/kg bw/day and 0.012 mg/kg bw/day in children (0.003-0.02). The main contributors were similar irrespective of the assumption and population (adults or children). Delicatessen meats were the main contributor (58% in adults and 52% in children). Next came mixed dishes (27% in adults and 38% in children) and then sandwiches and snacks (13% in adults and 10% in children).

Estimated mean intake levels were lower than the previous French estimates. In fact, the intake levels estimated based on use values declared by manufacturers and analytical data ranged from 0.02 to 0.05 mg/kg bw/day in adults and from 0.04 to 0.09 mg/kg bw/day in children, depending on the scenario (Bemrah, Leblanc *et al.* 2008; Ménard, Héraud *et al.* 2008b). This decrease may have been due to a fall in the consumption of processed meat products (major contributors) from 1999 to 2007 (Bemrah, Leblanc *et al.* 2008) and a fall in the levels of nitrites added to these products (Bemrah, Leblanc *et al.* 2008). At the European and international levels, estimated mean intake values were also higher. They ranged from 0.01 mg/kg bw/day in New Zealand (Thomson, Nokes *et al.* 2007) to 0.2 mg/kg bw/day in Ireland (FSA 2001).

The ADI was not exceeded in the French population. The 95th exposure percentile for the upperbound was 11.1% of the ADI in adults (9.4%-13.6%) and 19.6% of the ADI in children (16%-26.6%). The risk associated with nitrite intake is therefore not a public health issue.

4.5. Summary on additives

In general, the percentage of detected data was fairly low with mean quantification levels far below the maximum quantities authorised in the regulations.

The results of exposure calculations in the French population highlighted an absence of risk for three of the additive groups studied (tartaric acid, nitrites and annatto) (Table 5). However, a small percentage of adult consumers (3%) exceeded the ADI for sulfites, which was mainly due to the consumption of alcoholic beverages, and wine in particular (around 70% of intake). This finding was unchanged compared to the last assessment in 2005 which led to the same conclusions. It should be noted that, since 1 August 2009, European regulations have lowered maximum limits of sulfites in wine by 10 mg/L (Commission Regulation (EC) No 606/2009 Annex I Part B) except with regard to certain special white wines with high levels of residual sugars, particularly those from botrytised grapes. This lowering of the maximum limits of sulfites was made technically possible through better control of the use of this preservative by operators in the sector. In addition, a guide to Good Hygiene Practices in the wine sector, currently being studied by ANSES, specifically addresses methods for controlling the use of sulfur dioxide (SO_2). It proposes different measures for limiting the need to use SO_2 at the different stages of wine production or storage. However it is still recommended to reduce uses in wine to levels that guarantee consumer protection and to reaffirm the need to reduce alcohol consumption. In fact, wine consumption in people who exceeded the ADI for sulfites ranged from 314 mL/day (around three standard 10 cL glasses) to 1166 mL/day (around 11 standard 10 cL glasses).

Table 5: Exposure (mean and 95th percentile) to additives in the French population (mg/kg bw/day) and percentage of subjects that exceeded the health-based guidance values (HBGVs)

Substance	Health-based guidance values		Adults			Children		
			Mean	95th percentile	%>HBGV [CI95%]	Mean	95th percentile	%>HBGV
Annatto	ADI = 0.065 mg/kg bw/day (SCF 1979)	LB	0.0001	0.001	0	0.0002	0.001	0
		UB	0.002	0.006	0	0.004	0.011	0
Tartaric acid	ADI = 30 mg/kg bw/day (SCF 1990)	LB	0.035	0.139	0	0.067	0.255	0
		UB	0.076	0.227	0	0.192	0.519	0
Sulfites	ADI = 0.7 mg/kg bw/day (SCF 1996)	LB	0.164	0.599	3 [2.1; 3.7]	0.031	0.123	0
		UB	0.170	0.601	3 [2.1; 3.7]	0.046	0.144	0
Nitrites	ADI = 0.06 mg/kg bw/day (EFSA 2010b)	LB	0.001	0.002	0	0.001	0.004	0
		UB	0.003	0.006	0	0.005	0.011	0

Table 6: Summary of risk assessment conclusions for exposure to additives

Substance	Primary results	Corrective actions
Annatto, Tartaric acid, Nitrites	Risk can be excluded for the general population	-
Sulfites	Risk cannot be excluded for certain consumer groups	Need to reduce uses of sulfites in wine to guarantee consumer protection and for large consumers to reduce alcohol consumption (wine in particular)

Outlook

This step-by-step summary was initiated by the European Commission in 2001. At the time, a certain number of additives could not be assessed in the framework of this assessment procedure since they were authorised *quantum satis* and no use or analytical data were available. In 2009, EFSA instigated the assessment of all existing food additives in the framework of its work programme, which is scheduled to end in 2020. ADI revisions and use declarations reported by the industry for *quantum satis* substances are therefore currently being integrated into these European assessments.

Table H1: Estimated mean levels of additives in foods (mg/kg)

Additive	Food group	n	Type	LB	UB
Annatto	Sweet and savoury biscuits and bars	16	R	0	1.52
	Cheese	14	N	1.2	1.41
	Margarine	4	N	0	5
	Potatoes and potato products	13	R	0	1.38
	Dried fruits, nuts and seeds	1	N	0	9
	Ice creams, sorbets and frozen desserts	2	N	0	5
	Sugars and sugar derivatives	1	N	0	0.25
	Sandwiches and snacks	6	R	0	1.94
	Mixed dishes	2	R	0	0.3
Tartaric acid	Sweet and savoury biscuits and bars	8	N	119.3	131.8
	Pastries and cakes	18	N	37.5	57.5
	Vegetables (excluding potatoes)	64	R	6.3	18.3
	Pulses	16	R	20.3	26.5
	Chocolate	10	N	0	175
	Sugars and sugar derivatives	3	N	2.5	12.5
	Other hot beverages	4	R	0	50
	Mixed dishes	6	R	420	420
	Compotes and cooked fruit	1	N	0	50
Sulfites	Sweet and savoury biscuits and bars	24	R	1.3	4
	Pastries and cakes	18	N	0.2	4
	Meat	46	R	0.3	2.1
	Crustaceans and molluscs	16	R	54.3	54.5
	Vegetables (excluding potatoes)	16	R	0	1
	Potatoes and potato products	13	R	0.3	2.1
	Pulses	16	R	0	1
	Dried fruits, nuts and seeds	2	N	64	64
	Chocolate	1	N	0	1
	Sugars and sugar derivatives	5	N	106.8	108
	Non-alcoholic beverages	15	N	0	1
	Alcoholic beverages	8	N	46.3	46.5
	Mixed dishes	18	R	0.8	2.9
	Compotes and cooked fruit	2	N	0	1
Nitrites	Offal	8	R	0	2
	Delicatessen meats	79	R	1.4	3.5
	Sandwiches and snacks	6	R	0.5	1.8
	Mixed dishes	42	R	0.5	2.4

Table H2: Estimated exposure (mean and P95) in the adult and child populations to additives (mg/kg bw/d) and contribution of food groups to total exposure (%)

Substance	Food group	Adults						Children					
		Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Annatto	Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.000	0	1	0.000	0.000	0.000	0.001	0	1
	Cheese	0.000	0.000	0.001	0.001	100	11	0.000	0.000	0.001	0.002	100	8
	Butter	0.000	0.000	0.000	0.001	0	1	0.000	0.000	0.000	0.001	0	0
	Margarine	0.000	0.000	0.000	0.002	0	16	0.000	0.000	0.000	0.003	0	11
	Potatoes and potato products	0.000	0.000	0.000	0.002	0	19	0.000	0.001	0.000	0.003	0	22
	Dried fruits, nuts and seeds	0.000	0.000	0.000	0.004	0	6	0.000	0.000	0.000	0.008	0	2
	Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.005	0	27	0.000	0.001	0.000	0.011	0	39
	Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0.000	0	0
	Sandwiches and snacks	0.000	0.000	0.000	0.004	0	19	0.000	0.001	0.000	0.004	0	14
	Mixed dishes	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0.000	0	1
	Total	**0.0001**	**0.002**	**0.001**	**0.006**	**100**	**100**	**0.0002**	**0.004**	**0.001**	**0.011**	**100**	**100**
Tartaric acid	Croissant-like pastries	0.000	0.000	0.029	0.029	0	0	0.000	0.000	0.000	0.000	0	0
	Sweet and savoury biscuits and bars	0.003	0.005	0.026	0.036	9	7	0.021	0.029	0.150	0.171	31	15
	Pastries and cakes	0.013	0.022	0.092	0.101	37	28	0.021	0.042	0.110	0.162	31	22
	Vegetables (excluding potatoes)	0.005	0.012	0.025	0.036	14	15	0.007	0.017	0.033	0.058	10	9
	Pulses	0.001	0.002	0.024	0.027	4	2	0.002	0.003	0.043	0.052	4	2
	Fruits	0.000	0.001	0.000	0.066	0	2	0.000	0.002	0.000	0.105	0	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.002	0.007	0	0	0.000	0.000	0.011	0.034	0	0
	Chocolate	0.000	0.013	0.000	0.115	0	18	0.000	0.057	0.000	0.227	0	30
	Sugars and sugar derivatives	0.001	0.002	0.004	0.012	2	3	0.001	0.002	0.005	0.016	1	1
	Other hot beverages	0.000	0.006	0.000	0.233	0	7	0.000	0.018	0.000	0.513	0	9
	Mixed dishes	0.012	0.012	0.321	0.321	35	16	0.016	0.016	0.428	0.428	24	9
	Compotes and cooked fruit	0.000	0.002	0.000	0.046	0	2	0.000	0.005	0.000	0.107	0	3
	Total	**0.035**	**0.076**	**0.139**	**0.227**	**100**	**100**	**0.067**	**0.192**	**0.255**	**0.519**	**100**	**100**

Substance	Food group	Adults						Children					
		Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Sulfites	Croissant-like pastries	0.000	0.000	0.002	0.003	0	0	0.000	0.000	0.000	0.000	0	0
	Sweet and savoury biscuits and bars	0.000	0.001	0.001	0.003	0	0	0.000	0.002	0.002	0.008	1	4
	Pastries and cakes	0.000	0.002	0.000	0.007	0	1	0.000	0.004	0.000	0.014	0	9
	Meat	0.000	0.001	0.001	0.004	0	1	0.000	0.002	0.001	0.007	1	4
	Crustaceans and molluscs	0.001	0.001	0.013	0.013	1	1	0.001	0.001	0.022	0.022	2	2
	Vegetables (excluding potatoes)	0.000	0.001	0.000	0.002	0	0	0.000	0.001	0.000	0.003	0	2
	Potatoes and potato products	0.000	0.001	0.000	0.003	0	0	0.000	0.001	0.001	0.005	1	3
	Pulses	0.000	0.000	0.000	0.001	0	0	0.000	0.000	0.000	0.002	0	0
	Fruits	0.000	0.000	0.000	0.001	0	0	0.000	0.000	0.000	0.002	0	0
	Dried fruits, nuts and seeds	0.001	0.001	0.028	0.028	1	1	0.001	0.001	0.060	0.060	2	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.000	0	0	0.000	0.000	0.000	0.002	0	0
	Chocolate	0.000	0.000	0.000	0.001	0	0	0.000	0.000	0.000	0.001	0	0
	Sugars and sugar derivatives	0.036	0.036	0.137	0.137	22	21	0.027	0.027	0.123	0.124	86	59
	Non-alcoholic beverages	0.000	0.001	0.000	0.005	0	1	0.000	0.003	0.000	0.011	0	7
	Alcoholic beverages	0.126	0.126	0.618	0.620	77	74	0.002	0.002	0.110	0.110	6	4
	Mixed dishes	0.000	0.001	0.001	0.005	0	0	0.000	0.002	0.002	0.009	1	3
	Compotes and cooked fruit	0.000	0.000	0.000	0.001	0	0	0.000	0.000	0.000	0.002	0	0
	Total	**0.164**	**0.170**	**0.599**	**0.601**	**100**	**100**	**0.031**	**0.046**	**0.123**	**0.144**	**100**	**100**
Nitrites	Offal	0.000	0.000	0.000	0.001	0	2	0.000	0.000	0.000	0.001	0	1
	Delicatessen meats	0.001	0.001	0.002	0.004	66	54	0.001	0.002	0.003	0.007	59	48
	Vegetables (excluding potatoes)	0.000	0.000	0.001	0.004	0	0	0.000	0.000	0.001	0.004	0	0
	Sandwiches and snacks	0.000	0.000	0.001	0.003	16	14	0.000	0.000	0.002	0.003	10	10
	Mixed dishes	0.000	0.001	0.001	0.005	18	30	0.000	0.002	0.002	0.009	31	41
	Total	**0.001**	**0.003**	**0.002**	**0.007**	**100**	**100**	**0.001**	**0.005**	**0.004**	**0.011**	**100**	**100**

5. Acrylamide

Acrylamide was highlighted in certain foodstuffs for the first time in 2002. Acrylamide is a heat-induced contaminant that appears in foods during cooking or other thermal processes (at temperatures above 120°C). This reaction particularly occurs in plant-based foods rich in carbohydrates, usually in the presence of asparagines and lipids, *via* the Maillard reaction (Mottram, Wedzicha *et al.* 2002). Thus, the foods with the highest acrylamide levels are potatoes (fried, sautéed and crisps), biscuits, and coffee (including coffee substitutes such as chicory).

Hazard characterisation

Acrylamide is rapidly absorbed by the gastro-intestinal system after ingestion. It is widely distributed in the body's tissues and crosses the placental barrier. Its metabolism leads particularly to the formation of an epoxide, glycidamide. Its metabolites are primarily excreted in the urine.

The genotoxicity of acrylamide, particularly through its metabolisation into glycidamide, has been experimentally highlighted. Other studies undertaken in rats have shown the carcinogenic potential of acrylamide and led IARC to classify this compound as 'probably carcinogenic to humans' (group 2A) (IARC 1994). As epidemiological data and data on biomarkers are insufficient, a dose-response relationship was established on the basis of animal testing results. Thus, JECFA identified two BMDL10 values for acrylamide, on the basis of two separate effects: 0.18 mg/kg bw/day (onset of Harderian gland tumours in mice) and 0.31 mg/kg bw/day (onset of mammary tumours in rats) (JECFA 2011).

Risk assessment and characterisation

Eleven percent of the 192 analysed samples had an acrylamide level lower than the LOD, and 15% had a level lower than the LOQ.

The highest mean levels were found in crisps (954 µg/kg), sautéed potatoes and chips (724 µg/kg), other aperitif-type savoury biscuits (698 µg/kg) and to a lesser extent, sweet biscuits (139 µg/kg) (Table I1). It is not possible to compare these levels with those recorded in France in 2005 (AFSSA 2005) since the sampled food groups were different and there is no precise description of the constitution of these groups for the 2005 data. Coffee, however, had levels that were higher than the international data (JECFA 2006). This may have been due firstly to the fact that the 'black coffee' samples from TDS 2 were comprised of both coffee and chicory (the consumption data included both product types). And yet, chicory is known as being more contaminated with acrylamide than coffee. Secondly, the method used to prepare ready-to-drink coffee (ground or soluble coffee), and primarily the dilution effect, is also a factor that may explain these differences in concentrations.

The values given in parentheses after the exposure levels correspond to the minimum and maximum mean and 95th percentile values observed in the various regions.

Mean daily exposure to acrylamide in the French population was estimated at 0.43 µg/kg bw in adults (0.28-0.54) and 0.69 µg/kg bw in children (0.39-1.00) (Table I1). Exposure at the 95th percentile was 1.02 µg/kg bw in adults (0.60-1.20) and 1.80 µg/kg bw in children (0.82-2.70). These values were lower than those that were calculated when exposure in the French population was estimated in 2005: it decreased by 14% for adults and 45% for children (AFSSA 2005). Exposure levels were also lower, by a factor of around 2 to 4, than those estimated by JECFA in 2010 for the general population (JECFA 2011).

The main contributors to exposure, in both adults and children, were sautéed and fried potatoes (45% and 61% respectively) (Table I1). In adults, coffee, and black coffee in particular, was the second contributor to exposure (29%). In children, biscuits were the second contributor (19%) and more particularly sweet biscuits (11%).

In adults, the margins of exposure corresponded to the BMDL10 values obtained in animals that were proposed by JECFA (0.18 and 0.31 mg/kg bw/day) and totalled 419 and 721 respectively for mean exposure and 176 and 304 at the 95th exposure percentile (Table 7). In children, the margins of exposure were 261 and 449 for mean exposure, and 100 and 172 at the 95th exposure percentile. These margins were higher than those calculated by JECFA for the general population (i.e. 45 for the mean and 78 for the 95th percentile).

The conclusions of the EFSA/WHO 2005 conference reported that a margin of exposure lower than 10,000, based on a BMDL10 obtained in an animal testing study, represents a public health issue and a need to reduce exposure (EFSA/WHO 2005; JECFA 2011). It is therefore advisable to continue efforts in order to reduce dietary exposure to acrylamide, and to encourage epidemiological studies on the effects of exposure to acrylamide.

Table 7: Exposure (mean and 95th percentile) to acrylamide in the French population and margins of exposure (MOE)

$BMDL_{10}$		Adults		Children	
		Mean	95th percentile	Mean	95th percentile
0.31 mg/kg bw/d = 310 µg/kg bw/d	Exposure, µg/kg bw/day	0.43	1.02	0.69	1.80
	MOE	721	304	449	172
0.18 mg/kg bw/d = 180 µg/kg bw/d	Exposure, µg/kg bw/day	0.43	1.02	0.69	1.80
	MOE	419	176	261	100

Table I1: Estimated levels of acrylamide in foods (µg/kg or µg/L), estimated exposure (mean and P95) in the French adult and child populations (ng/kg bw/day), and contribution of foods (%)

Food	Type	n	Mean level	Exposure					
				Adults			Children		
				Mean	P95	Contrib	Mean	P95	Contrib
Bread and dried bread products	N	14	34.3	24.4	69.8	5.7	20.2	58.7	2.9
Breakfast cereals	N	6	16.2	0.8	18.0	0.2	5.7	29.2	0.8
Croissant-like pastries	N	6	22.2	2.8	21.0	0.6	9.6	43.7	1.4
Sweet and savoury biscuits and bars			729.2	40.2		9.4	130.0		18.8
of which salted potato crisps	*R*	*16*	*954.5*	*10.2*	*261.4*	*2.4*	*27.8*	*357.8*	*4.0*
of which other savoury biscuits	*N*	*2*	*697.6*	*13.1*	*181.2*	*3.0*	*27.1*	*362.4*	*3.9*
of which sweet biscuits	*N*	*6*	*139.0*	*17.0*	*157.7*	*3.9*	*75.1*	*279.6*	*10.9*
Pastries and cakes	N	16	25.7	12.7	48.2	3.0	26.3	400.8	3.8
Poultry and game	R	6	10.9	2.2	9.8	0.5	3.6	15.4	0.5
Fish	R	16	11.1	0.6	9.9	0.1	2.4	19.2	0.3
Sauteed potatoes or chips	R	16	724.1	192.6	729.2	44.8	421.0	1,447.4	60.8
Chocolate	N	9	80.0	5.0	36.8	1.2	17.1	70.6	2.5
Coffee/chicory			68.0	126.8		29.5	3.7		0.5
of which black coffee	*R*	*3*	*37.3*	*119.3*	*456.1*	*27.7*	*3.6*	*222.7*	*0.5*
of which soluble instant coffee	*R*	*15*	*74.2*	*7.6*	*565.2*	*1.8*	*0.1*	*165.5*	*0.0*
Other hot beverages	R	14	21.8	2.7	65.6	0.6	10.6	84.5	1.5
Pizzas, quiches and savoury pastries	R	4	41.0	12.9	82.6	3.0	22.6	125.8	3.3
Sandwiches and snacks	R	15	10.5	2.0	21.1	0.5	2.7	21.8	0.4
Mixed dishes		12	13.7	2.8		0.7	10.7		1.5
of which poultry Cordon Bleu	*R*	*2*	*33.9*	*1.2*	*25.1*	*0.3*	*6.2*	*48.7*	*0.9*
Dairy-based desserts	N	12	7.3	1.4	15.7	0.3	4.9	35.0	0.7
Compotes and cooked fruit	N	4	2.0	0.3	3.6	0.1	0.9	7.8	0.1
TOTAL				**430.2**	**1,024.0**	**100**	**691.9**	**1,803**	**100**

6. Polycyclic aromatic hydrocarbons

Polycyclic aromatic hydrocarbons (PAHs) are a family of over one hundred organic compounds that have at least two aromatic rings. In most cases, contamination of food products with PAHs is environmental (exhaust gas from engines, residential heating systems and combustion processes) or related to food processing processes (drying, smoking, cooking, etc.). Aside from a few specific cases (occupational exposure, accidental exposure, smokers, etc.), food remains the main vector of human exposure to PAHs. Initially based on the level of benzo[a] pyrene, the European Community regulations (EC 1881/2006) are currently being updated in order to establish maximum levels also for the sum of four PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene and chrysene). The new provisions will enter into force on 1 September 2012.

The half-life of these hydrocarbons varies greatly depending on the compound and the matrix in question, from a few minutes in animals to several years in the soil. While PAHs are persistent in the environment (particularly in the soil and sediment), they can be easily metabolised in vertebrates and therefore have low bioaccumulation.

Hazard characterisation

Only the toxicity of a limited number of PAHs is known. Some PAHs, and primarily those with a low molecular weight, cause systemic non-carcinogenic threshold effects (mainly kidney, liver and blood disorders) for which health-based guidance values have been established. Other PAHs, and primarily compounds with a high molecular weight, are carcinogenic and genotoxic. Since establishing an ADI is not relevant, several risk assessment approaches have been proposed. The first method was to consider benzo[a]pyrene as a PAH exposure and effect marker and to base risk calculation on its concentration (JECFA 2006; SCF 2002). Since PAH contamination profiles in foodstuffs are variable, this method was invalidated by EFSA (EFSA 2008d), although it is still applied in the regulations. In its 2003 report, AFSSA recommended using Toxic Equivalency Factors (TEFs) based on the relative carcinogenic potential of the 11 most toxic PAHs that were most representative of food contamination (AFSSA 2003). An extra risk factor for cancer of 10^{-6} could be calculated on the basis of a Virtually Safe Dose (VSD) of 5 ng/kg bw/day (RIVM 2001). EFSA no longer recommends using TEFs due to a lack of data from oral carcinogenicity studies for PAHs and this approach's low predictivity. Its considers that risk assessment should be based on the sum of the weights of the PAHs for which oral carcinogenicity data exist and has proposed a selection of four or eight PAHs (PAH4 or PAH8) as a PAH exposure and effect marker in food. Risk characterisation is then estimated by calculating margins of exposure on the basis of a $BMDL_{10}$ of 0.34 mg/kg bw/day for the sum of the four PAHs.

Risk assessment and characterisation

Estimation of concentrations in foods

The percentage of censored data (non-detected congeners) was highly variable: it ranged from 21% for Chrysene (CHR) to 99.9% for DiBenzo[a,h]Pyrene (DBahP). Considering these levels, for the congeners that were taken into account in the calculation of PAH4 (BaA, BaP, BbF and CHR), the middlebound was applied (MB). To calculate PAH11 (sum of PAH4, BghiP, BkF, DBahA, idenopyrene, AN, BjF, FA), the lowerbound and upperbound (LB and UB) were applied.

As EFSA had already noted in 2008, the TDS 2 data show that the sum of PAH8 as an indicator of contamination is similar to that of PAH4. Therefore, only the PAH4 sum is presented in this document.

The highest mean levels of PAH4 were found in crustaceans and molluscs (4.3 µg/kg), oil (1.9 µg/kg) and margarine (1.3 µg/kg). Mean contamination in the other food groups was considerably lower than 1 µg/kg FW (Tables J1 and J2).

In 2003, AFSSA issued an Opinion regarding exposure to PAHs (AFSSA 2003). Data from monitoring and surveillance plans (targeting production regions or at-risk processes) showed contamination levels that were two to three times higher for these food groups. An (unpublished) 2008 study dealing solely with seafood products also showed contamination levels that were five to 10 times higher for these products (surveillance plan data) (AFSSA 2008). It should be noted that the analytical limits from the TDS 2 study were considerably lower than those used in the previous years' plans (by a factor of 10 to 100). The contamination data presented in

EFSA's report were also considerably higher than the TDS 2 data (EFSA 2008d). The mean level in crustaceans and molluscs was 11.9 µg/kg, which was three times higher than that measured in the TDS 2 study. For fats (oil and margarine), the EFSA 2008 levels were around twice as high as those from TDS 2. For the other food categories, mean contamination levels were higher (by a factor of 10 for meats and a factor of 100 for fish) than the TDS 2 levels. It should be noted that the food groups presented in the EFSA report (taken from samples in random or targeted plans) were products that were more likely to contain PAHs (meats and smoked fish) than the foods analysed in TDS 2. In fact, the latter represented the entire diet but foods cooked on the barbecue, which are likely to contain a larger percentage of PAHs, were not sampled in this study.

Moreover, the cereal group (bread and dried bread products, breakfast cereals, croissant-like pastries, biscuits and bars) had a mean contamination level that was lower than in the 2003 AFSSA Opinion, and equivalent to the group of processed cereals from the report published by EFSA (0.3 µg/kg FW).

Estimation of exposure in the French population

Exposure levels are given for the sum of PAH4 in weight (without weighting), i.e. without taking into account TEFs, and in toxic equivalent for the sum of PAH11. The TEFs used for the calculation are given in Table 8:

Table 8: TEF values for the 11 PAH congeners used for the calculation (WHO 1998)

Congener		TEF
Anthracene	AN	0.01
Benzo[a]anthracene	BaA	0.1
Benzo[a]pyrene	BaP	1
Benzo[b]fluoranthene	BbF	0.1
Benzo[g,h,i]perylene	BghiP	0.01
Benzo[j]fluoranthene	BjF	0.1
Benzo[k]fluoranthene	BkF	0.01
Chrysene	CHR	0.01
DiBenzo[a,h]anthracene	DBahA	1
Fluoranthene	FA	0.001
Indeno[1,2,3-cd]pyrene	IP	0.1

The values given in parentheses after the exposure levels correspond to the minimum LB and maximum UB mean and P95 values observed in the various regions.

Mean daily exposure in the French population to the sum of PAH4 was 1.48 ng/kg bw/day (1.34-1.71) in adults (Table J3) and 2.26 ng/kg bw/day (2.09-2.51) in children (Table J4). Exposure at the 95th percentile was 3.00 ng/kg bw/day (2.62-3.75) in adults and 4.69 ng/kg bw/day (4.17-5.86) in children.

For the lowerbound (LB), mean adult exposure to the sum of PAH11 was 0.35 ng TEQ/kg bw/day, and 0.43 ng TEQ/kg bw/day for the upperbound (UB) assumption (0.32-0.48). In children, mean exposure was 0.55 ng TEQ/kg bw/day for the lowerbound, and 0.68 ng TEQ/kg bw/day for the upperbound (0.52-0.74). At the 95th exposure percentile, in adults, mean exposure was 0.66 ng TEQ/kg bw/day for the lowerbound, and 0.77 ng TEQ/kg bw/day for the upperbound (0.53-0.85). In children, exposure at the 95th percentile was 1.13 ng TEQ/kg bw/day for the lowerbound, and 1.35 ng TEQ/kg bw/day for the upperbound (1.02-1.66).

In the youngest children (aged 3-6 years), mean exposure to the sum of PAH4 was 3.49 ng/kg bw/day (P95=6.19). For the upperbound, mean exposure to PAH11 was 1.05 ng TEQ/kg bw/day (P95=1.66).

The estimation of exposure for women of childbearing age was equivalent to that of the adult population.

The main contributors for adults were fats (oil and margarine), bread and dried bread products and crustaceans and molluscs. These food groups' contribution percentages depended on the number of PAH congeners used for the calculation: the contribution of fats and crustaceans and molluscs decreased when using PAH11 (TEQ) instead of PAH4; the contribution of bread and more generally cereal-based products increased when using PAH11 (TEQ) instead of PAH4. For children, the main contributors were cereal products (bread, biscuits, pastries and cakes) and fats (particularly oil). Crustaceans and molluscs were not major contributors due to low consumption of these products.

The previous French estimation of exposure to six PAHs through the whole diet, in 2003, estimated the mean level at 4.9 ng/kg bw/day (9 ng/kg bw/day at the 95th percentile), under the LB. This was three times higher than the PAH4 estimate. The estimated TEQ of these six PAHs was on average 1.4 ng TEQ/kg bw/day (P95=2.5 ng TEQ/kg bw/day), i.e. around four times higher than the TDS 2 estimation in toxic equivalent for 11 PAHs.

Margins of exposure (Table 9) were calculated using EFSA's $BMDL_{10}$ for PAH4 (0.34 mg/kg bw/day). The extra cancer risk was calculated on the basis of the VSD of 5 ng/kg bw/day for a risk of 10^{-6}.

Table 9: Exposure to PAH4 and PAH11, margins of exposure (MOE) to PAH4 and excess risk for PAH11 calculated for the general French population

	Reference value		Adults		Children	
			Mean	95th percentile	Mean	95th percentile
PAH4	$BMDL_{10}$ = 0.34 mg/kg bw/day (EFSA 2008d)	Exposure, ng/kg bw/day	1.5	3.0	2.3	4.7
		MOE	230,041	113,409	150,509	72,433
PAH11	VSD = 5 ng/kg bw/day (RIVM 2001)	Exposure, ng TEQ/kg bw/day	0.43	0.77	0.68	1.35
		Extra cancer risk	$8.6.10^{-8}$	$1.5.10^{-7}$	$1.4.10^{-7}$	$2.7.10^{-7}$

The new official approach based on margins of exposure (MOEs) and the extra risk calculation indicate that exposure to PAHs through food (excluding barbecue-type practices) is not a major health problem for consumers.

Table J1: Estimated mean food contamination with congeners, total PAHs in weight (µg/kg FW) and TEQ (µg TEQ/kg FW)

Food group	n	Type	BaA	BaP	BbF	CHR	PAH4	BghiP	BkF	DBahA		IP	PAH8		AN		BjF	FA	PAH11 TEQ	
			(MB)	(MB)	(MB)	(MB)	(MB)	(MB)	(MB)	(LB)	(UB)	(MB)	(LB)	(UB)	(LB)	(UB)	(MB)	(MB)	(LB)	(UB)
Bread and dried bread products	7	N	0.053	0.068	0.053	0.093	0.268	0.227	0.021	0.01	0.013	0.071	0.596	0.599	0	0.486	0.028	0.596	0.104	0.112
Breakfast cereals	3	N	0.021	0.01	0.013	0.047	0.091	0.009	0.007	0.002	0.003	0.006	0.114	0.115	0	0.077	0.007	0.172	0.024	0.024
Croissant-like pastries	3	N	0.047	0.044	0.056	0.105	0.251	0.043	0.018	0.014	0.025	0.028	0.354	0.365	0	0.285	0.03	0.322	0.078	0.091
Sweet and savoury biscuits and bars	8	R	0.055	0.045	0.08	0.138	0.319	0.18	0.033	0.018	0.018	0.07	0.62	0.62	0	0.229	0.04	0.516	0.095	0.097
Pastries and cakes	8	N	0.037	0.034	0.037	0.078	0.187	0.078	0.02	0.01	0.015	0.03	0.325	0.33	0	0.503	0.024	0.407	0.06	0.07
Milk	38	R	0.001	0.002	0.001	0.002	0.006	0.002	0.001	0	0.003	0.001	0.011	0.014	0	0.025	0.001	0.014	0.003	0.005
Ultra-fresh dairy products	75	R	0.002	0.002	0.002	0.003	0.009	0.002	0.001	0	0.003	0.001	0.014	0.016	0.002	0.037	0.001	0.024	0.003	0.006
Cheese	32	R	0.009	0.015	0.01	0.028	0.058	0.018	0.006	0.003	0.011	0.009	0.092	0.1	0	0.282	0.004	0.223	0.022	0.032
Eggs and egg products	30	R	0.022	0.009	0.013	0.043	0.087	0.01	0.005	0.005	0.01	0.005	0.111	0.117	0	0.192	0.007	0.203	0.019	0.027
Butter	6	N	0.012	0.034	0.012	0.031	0.089	0.051	0.01	0.006	0.018	0.009	0.165	0.178	0	0.367	0.012	0.44	0.047	0.063
Oils	6	N	0.408	0.241	0.326	0.946	1.921	0.262	0.147	0.042	0.076	0.188	2.561	2.594	0.252	0.269	0.177	3.777	0.426	0.46
Margarine	4	N	0.363	0.151	0.181	0.649	1.344	0.13	0.08	0.029	0.038	0.096	1.68	1.689	0	0.49	0.121	1.903	0.274	0.288
Meat	64	R	0.014	0.012	0.015	0.029	0.071	0.019	0.006	0.001	0.013	0.009	0.106	0.118	0.027	0.21	0.008	0.291	0.021	0.035
Poultry and game	38	R	0.013	0.011	0.017	0.041	0.082	0.014	0.006	0.002	0.013	0.007	0.111	0.122	0.034	0.189	0.007	0.307	0.019	0.031
Offal	16	R	0.009	0.014	0.012	0.028	0.064	0.021	0.008	0.001	0.011	0.008	0.102	0.111	0.003	0.161	0.006	0.214	0.021	0.032
Delicatessen meats	80	R	0.076	0.024	0.037	0.143	0.28	0.025	0.015	0.003	0.016	0.016	0.339	0.352	0.139	0.355	0.023	0.7	0.051	0.065
Fish	46	R	0.029	0.025	0.026	0.071	0.151	0.023	0.011	0.001	0.012	0.017	0.203	0.214	0.087	0.345	0.014	0.364	0.038	0.052
Crustaceans and molluscs	37	R	0.49	0.234	1.553	2.009	4.285	0.37	0.581	0.065	0.068	0.282	5.584	5.586	0.028	0.231	0.632	2.56	0.68	0.684
Vegetables (excluding potatoes)	68	R	0.007	0.005	0.009	0.022	0.042	0.008	0.003	0.001	0.004	0.005	0.06	0.062	0	0.051	0.005	0.084	0.009	0.012
Potatoes and potato products	8	R	0.019	0.012	0.014	0.032	0.076	0.016	0.007	0.004	0.009	0.011	0.114	0.12	0	0.104	0.009	0.149	0.021	0.028
Soft drinks	2	N	0.002	0.001	0.001	0.002	0.006	0.002	0.001	0	0.002	0.001	0.01	0.012	0	0.03	0.001	0.011	0.002	0.004
Coffee	29	R	0.002	0.002	0.002	0.004	0.011	0.005	0.001	0	0.003	0.002	0.019	0.022	0.002	0.027	0.001	0.029	0.004	0.007
Other hot beverages	9	R	0.003	0.003	0.002	0.004	0.012	0.004	0.001	0	0.003	0.001	0.019	0.021	0	0.05	0.001	0.042	0.004	0.007
Pizzas, quiches and savoury pastries	4	N	0.067	0.021	0.056	0.171	0.315	0.051	0.022	0.003	0.011	0.023	0.413	0.422	0	0.234	0.031	0.806	0.047	0.057
Sandwiches and snacks	18	R	0.038	0.024	0.036	0.064	0.162	0.034	0.011	0.001	0.017	0.025	0.233	0.25	0	0.278	0.018	0.345	0.036	0.055
Mixed dishes	61	R	0.036	0.019	0.027	0.061	0.142	0.034	0.01	0.002	0.01	0.017	0.206	0.214	0.13	0.298	0.015	0.363	0.034	0.044
Dairy-based desserts	22	R	0.011	0.011	0.01	0.036	0.068	0.01	0.004	0	0.01	0.006	0.088	0.097	0	0.218	0.006	0.152	0.016	0.027
Seasonings and sauces	3	N	0.184	0.088	0.147	0.076	0.495	0.072	0.06	0.026	0.028	0.073	0.726	0.728	0	0.086	0.079	0.532	0.171	0.174

Food group	n	Type	BcFL		CPP		DBaeP		DBahP		DBaiP		DBalP		MCH		PHE	PY
			(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(MB)	(MB)
Bread and dried bread products	7	N	0	0.039	0.133	0.133	0.003	0.029	0	0.039	0	0.039	0	0.038	0	0.038	0.879	2.696
Breakfast cereals	3	N	0	0.014	0.018	0.021	0	0.012	0	0.012	0	0.012	0	0.012	0	0.012	0.637	0.307
Croissant-like pastries	3	N	0	0.064	0.056	0.056	0	0.04	0	0.04	0	0.04	0	0.04	0	0.037	0.947	0.49
Sweet and savoury biscuits and bars	8	R	0	0.052	0.139	0.164	0.003	0.04	0	0.047	0	0.047	0	0.047	0	0.051	0.877	1.497
Pastries and cakes	8	N	0	0.077	0.072	0.072	0	0.032	0	0.032	0	0.032	0	0.032	0	0.029	1.137	1.486
Milk	38	R	0.001	0.011	0	0.016	0	0.008	0	0.008	0	0.008	0	0.008	0	0.003	0.07	0.023
Ultra-fresh dairy products	75	R	0.001	0.02	0.002	0.018	0	0.018	0	0.02	0	0.022	0	0.018	0	0.004	0.096	0.06
Cheese	32	R	0	0.139	0.035	0.04	0	0.032	0	0.041	0	0.041	0	0.032	0	0.021	1.56	0.82
Eggs and egg products	30	R	0.001	0.028	0.011	0.019	0.001	0.013	0	0.016	0	0.016	0	0.016	0	0.012	0.799	0.361
Butter	6	N	0	0.118	0.077	0.077	0	0.044	0	0.043	0	0.043	0	0.044	0	0.03	2.426	2.148
Oils	6	N	0.125	0.216	0.141	0.141	0.057	0.059	0	0.053	0	0.053	0	0.053	0	0.1	6.716	5.197
Margarine	4	N	0	0.136	0.332	0.332	0	0.057	0	0.057	0	0.057	0	0.057	0	0.042	5.784	3.443
Meat	64	R	0.006	0.039	0.012	0.044	0.001	0.02	0	0.022	0	0.022	0	0.021	0	0.023	1.487	0.698
Poultry and game	38	R	0.003	0.043	0.006	0.033	0	0.02	0	0.021	0	0.021	0	0.021	0	0.019	1.341	0.652
Offal	16	R	0	0.029	0.007	0.032	0.001	0.014	0	0.019	0	0.019	0	0.019	0	0.018	1.917	0.508
Delicatessen meats	80	R	0.024	0.065	0.025	0.058	0.001	0.023	0	0.023	0.001	0.024	0	0.027	0.001	0.028	2.589	0.984
Fish	46	R	0.018	0.074	0.01	0.028	0	0.032	0	0.033	0	0.033	0	0.033	0	0.029	2.29	0.685
Crustaceans and molluscs	37	R	0.027	0.071	0.109	0.114	0.022	0.039	0	0.022	0.008	0.028	0.003	0.023	0	0.026	2.187	1.379
Vegetables (excluding potatoes)	68	R	0	0.012	0.001	0.009	0.001	0.004	0	0.006	0	0.006	0	0.006	0	0.006	0.438	0.155
Potatoes and potato products	8	R	0	0.038	0.002	0.067	0.001	0.021	0	0.023	0	0.023	0	0.023	0	0.036	0.829	0.29
Soft drinks	2	N	0	0.005	0	0.009	0	0.005	0	0.005	0	0.005	0	0.005	0	0.004	0.043	0.015
Coffee	29	R	0	0.013	0.001	0.012	0	0.009	0	0.01	0	0.01	0	0.01	0.001	0.005	0.106	0.048
Other hot beverages	9	R	0	0.009	0	0.008	0	0.005	0	0.005	0	0.005	0	0.005	0	0.005	0.175	0.033
Pizzas, quiches and savoury pastries	4	N	0.016	0.082	0.026	0.067	0.003	0.015	0	0.028	0	0.028	0	0.027	0	0.034	4.939	1.942
Sandwiches and snacks	18	R	0.002	0.07	0.008	0.061	0.005	0.026	0	0.029	0	0.029	0	0.029	0	0.028	2.907	0.855
Mixed dishes	61	R	0.004	0.046	0.016	0.043	0.002	0.014	0	0.018	0	0.018	0	0.018	0	0.02	2.229	0.647
Dairy-based desserts	22	R	0	0.106	0.015	0.035	0.002	0.009	0	0.016	0	0.016	0	0.015	0	0.012	0.48	0.323
Seasonings and sauces	3	N	0.103	0.124	0.033	0.042	0.024	0.025	0	0.006	0	0.006	0.031	0.037	0	0.01	0.608	0.395

Table J2: Estimated mean food contamination by PAHs (µg/kg FW) analysed but not taken into account in the risk assessment

Food group	n	Type	BcFL		CPP		DbaeP		BbahP		DbaiP		DbalP		MCH		PHE	PY
			(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(LB)	(UB)	(MB)	(MB)
Bread and dried bread products	7	N	0	0.039	0.133	0.133	0.003	0.029	0	0.039	0	0.039	0	0.038	0	0.038	0.879	2.696
Breakfast cereals	3	N	0	0.014	0.018	0.021	0	0.012	0	0.012	0	0.012	0	0.012	0	0.012	0.637	0.307
Croissant-like pastries	3	N	0	0.064	0.056	0.056	0	0.04	0	0.04	0	0.04	0	0.04	0	0.037	0.947	0.49
Sweet and savoury biscuits and bars	8	R	0	0.052	0.139	0.164	0.003	0.04	0	0.047	0	0.047	0	0.047	0	0.051	0.877	1.497
Pastries and cakes	8	N	0	0.077	0.072	0.072	0	0.032	0	0.032	0	0.032	0	0.032	0	0.029	1.137	1.486
Milk	38	R	0.001	0.011	0	0.016	0	0.008	0	0.008	0	0.008	0	0.008	0	0.003	0.07	0.023
Ultra-fresh dairy products	75	R	0.001	0.02	0.002	0.018	0	0.018	0	0.02	0	0.022	0	0.018	0	0.004	0.096	0.06
Cheese	32	R	0	0.139	0.035	0.04	0	0.032	0	0.041	0	0.041	0	0.032	0	0.021	1.56	0.82
Eggs and egg products	30	R	0.001	0.028	0.011	0.019	0.001	0.013	0	0.016	0	0.016	0	0.016	0	0.012	0.799	0.361
Butter	6	N	0	0.118	0.077	0.077	0	0.044	0	0.043	0	0.043	0	0.044	0	0.03	2.426	2.148
Oils	6	N	0.125	0.216	0.141	0.141	0.057	0.059	0	0.053	0	0.053	0	0.053	0	0.1	6.716	5.197
Margarine	4	N	0	0.136	0.332	0.332	0	0.057	0	0.057	0	0.057	0	0.057	0	0.042	5.784	3.443
Meat	64	R	0.006	0.039	0.012	0.044	0.001	0.02	0	0.022	0	0.022	0	0.021	0	0.023	1.487	0.698
Poultry and game	38	R	0.003	0.043	0.006	0.033	0	0.02	0	0.021	0	0.021	0	0.021	0	0.019	1.341	0.652
Offal	16	R	0	0.029	0.007	0.032	0.001	0.014	0	0.019	0	0.019	0	0.019	0	0.018	1.917	0.508
Delicatessen meats	80	R	0.024	0.065	0.025	0.058	0.001	0.023	0	0.023	0.001	0.024	0	0.027	0.001	0.028	2.589	0.984
Fish	46	R	0.018	0.074	0.01	0.028	0	0.032	0	0.033	0	0.033	0	0.033	0	0.029	2.29	0.685
Crustaceans and molluscs	37	R	0.027	0.071	0.109	0.114	0.022	0.039	0	0.022	0.008	0.028	0.003	0.023	0	0.026	2.187	1.379
Vegetables (excluding potatoes)	68	R	0	0.012	0.001	0.009	0.001	0.004	0	0.006	0	0.006	0	0.006	0	0.006	0.438	0.155
Potatoes and potato products	8	R	0	0.038	0.002	0.067	0.001	0.021	0	0.023	0	0.023	0	0.023	0	0.036	0.829	0.29
Soft drinks	2	N	0	0.005	0	0.009	0	0.005	0	0.005	0	0.005	0	0.005	0	0.004	0.043	0.015
Coffee	29	R	0	0.013	0.001	0.012	0	0.009	0	0.01	0	0.01	0	0.01	0.001	0.005	0.106	0.048
Other hot beverages	9	R	0	0.009	0	0.008	0	0.005	0	0.005	0	0.005	0	0.005	0	0.005	0.175	0.033
Pizzas, quiches and savoury pastries	4	N	0.016	0.082	0.026	0.067	0.003	0.015	0	0.028	0	0.028	0	0.027	0	0.034	4.939	1.942
Sandwiches and snacks	18	R	0.002	0.07	0.008	0.061	0.005	0.026	0	0.029	0	0.029	0	0.029	0	0.028	2.907	0.855
Mixed dishes	61	R	0.004	0.046	0.016	0.043	0.002	0.014	0	0.018	0	0.018	0	0.018	0	0.02	2.229	0.647
Dairy-based desserts	22	R	0	0.106	0.015	0.035	0.002	0.009	0	0.016	0	0.016	0	0.015	0	0.012	0.48	0.323
Seasonings and sauces	3	N	0.103	0.124	0.033	0.042	0.024	0.025	0	0.006	0	0.006	0.031	0.037	0	0.01	0.608	0.395

Table J3: Estimated exposure (mean and P95) in adults to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.186	0.321	12.6	0.065	0.113	18.6	0.07	0.121	16.2
Breakfast cereals	0.006	0.196	0.4	0.001	0.043	0.3	0.001	0.044	0.3
Croissant-like pastries	0.035	0.203	2.4	0.01	0.059	3	0.012	0.065	2.7
Sweet and savoury biscuits and bars	0.047	0.256	3.2	0.013	0.068	3.8	0.013	0.069	3.1
Pastries and cakes	0.06	0.202	4.1	0.02	0.062	5.8	0.022	0.065	5.1
Milk	0.008	0.046	0.6	0.003	0.02	1	0.006	0.034	1.5
Ultra-fresh dairy products	0.011	0.021	0.7	0.004	0.007	1	0.007	0.013	1.6
Cheese	0.023	0.036	1.5	0.007	0.013	1.9	0.009	0.019	2.1
Eggs and egg products	0.021	0.096	1.4	0.005	0.024	1.4	0.006	0.029	1.5
Butter	0.021	0.052	1.4	0.01	0.032	3	0.013	0.04	3
Oils	0.24	0.787	16.2	0.04	0.127	11.5	0.045	0.145	10.6
Margarine	0.107	0.799	7.3	0.02	0.139	5.9	0.022	0.147	5
Meat	0.04	0.066	2.7	0.011	0.017	3.2	0.02	0.03	4.6
Poultry and game	0.029	0.089	2	0.007	0.022	2	0.012	0.037	2.8
Offal	0.001	0.031	0.1	0	0.01	0.1	0.001	0.016	0.1
Delicatessen meats	0.093	0.172	6.3	0.015	0.025	4.3	0.02	0.03	4.6
Fish	0.03	0.101	2	0.008	0.027	2.2	0.01	0.034	2.4
Crustaceans and molluscs	0.193	1.974	13.1	0.032	0.354	9.2	0.032	0.355	7.5
Vegetables (excluding potatoes)	0.016	0.057	1.1	0.003	0.011	1	0.005	0.014	1.1
Potatoes and potato products	0.058	0.114	3.9	0.015	0.028	4.5	0.022	0.039	5.2
Soft drinks	0	0.03	0	0	0.009	0	0	0.02	0
Coffee	0.028	0.111	1.9	0.01	0.04	2.9	0.021	0.076	4.9
Other hot beverages	0.002	0.035	0.1	0	0.007	0.1	0.001	0.016	0.2
Pizzas, quiches and savoury pastries	0.095	0.572	6.4	0.014	0.084	4	0.017	0.1	3.9
Sandwiches and snacks	0.029	0.253	2	0.006	0.05	1.8	0.01	0.074	2.3
Mixed dishes	0.065	0.294	4.4	0.016	0.062	4.5	0.02	0.074	4.7
Dairy-based desserts	0.02	0.106	1.4	0.005	0.023	1.3	0.008	0.04	1.8
Seasonings and sauces	0.015	0.153	1	0.005	0.055	1.5	0.005	0.056	1.3
TOTAL	**1.478**	**2.998**	**100**	**0.346**	**0.66**	**100**	**0.43**	**0.767**	**100**

Table J4: Estimated exposure (mean and P95) in children aged 3-17 years to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.161	0.28	7.1	0.056	0.102	10.2	0.06	0.106	8.8
Breakfast cereals	0.018	0.091	0.8	0.004	0.026	0.7	0.004	0.028	0.6
Croissant-like pastries	0.117	0.417	5.2	0.035	0.126	6.3	0.038	0.132	5.5
Sweet and savoury biscuits and bars	0.196	0.575	8.7	0.053	0.15	9.8	0.055	0.152	8.1
Pastries and cakes	0.146	0.423	6.5	0.047	0.129	8.6	0.053	0.141	7.8
Milk	0.039	0.132	1.7	0.015	0.056	2.8	0.028	0.093	4.2
Ultra-fresh dairy products	0.023	0.038	1	0.008	0.013	1.5	0.015	0.025	2.2
Cheese	0.032	0.056	1.4	0.009	0.02	1.7	0.013	0.028	1.9
Eggs and egg products	0.025	0.133	1.1	0.007	0.034	1.2	0.009	0.045	1.3
Butter	0.027	0.081	1.2	0.016	0.049	2.9	0.021	0.063	3
Oils	0.342	1.457	15.2	0.058	0.247	10.5	0.066	0.277	9.7
Margarine	0.111	0.874	4.9	0.023	0.166	4.1	0.024	0.176	3.5
Meat	0.063	0.108	2.8	0.017	0.029	3.2	0.032	0.053	4.7
Poultry and game	0.041	0.128	1.8	0.01	0.026	1.8	0.016	0.041	2.4
Offal	0.001	0.047	0	0	0.018	0.1	0	0.025	0.1
Delicatessen meats	0.156	0.288	6.9	0.024	0.044	4.3	0.031	0.051	4.5
Fish	0.07	0.22	3.1	0.017	0.056	3.2	0.022	0.071	3.3
Crustaceans and molluscs	0.098	2.365	4.3	0.016	0.442	3	0.017	0.443	2.5
Vegetables (excluding potatoes)	0.018	0.078	0.8	0.004	0.015	0.7	0.006	0.02	0.8
Potatoes and potato products	0.123	0.214	5.4	0.033	0.054	6	0.045	0.072	6.6
Soft drinks	0	0.093	0	0	0.026	0	0	0.062	0
Coffee	0.001	0.044	0	0	0.015	0.1	0.001	0.036	0.1
Other hot beverages	0.006	0.044	0.3	0.002	0.009	0.3	0.003	0.02	0.5
Pizzas, quiches and savoury pastries	0.166	0.794	7.4	0.024	0.116	4.5	0.029	0.139	4.3
Sandwiches and snacks	0.043	0.299	1.9	0.009	0.067	1.7	0.015	0.1	2.2
Mixed dishes	0.14	0.311	6.2	0.035	0.081	6.4	0.045	0.096	6.6
Dairy-based desserts	0.07	0.29	3.1	0.015	0.059	2.8	0.024	0.088	3.5
Seasonings and sauces	0.027	0.199	1.2	0.009	0.072	1.7	0.009	0.072	1.4
TOTAL	**2.259**	**4.694**	**100**	**0.548**	**1.131**	**100**	**0.68**	**1.349**	**100**

7. General conclusion

The conclusions of the Second French Total Diet Study (TDS 2) are recorded in the ANSES Opinion dated 21 June 2011.

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Décision 2002/479 de la Commission du 20 juin 2002 concernant la non-inscription de l'hydroxyde de fentine à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des utorisations accordées aux produits phytopharmaceutiques contenant cette substance active.

Décision 2004/129 de la Commission du 30 janvier 2004 concernant la non-inclusion de certaines substances actives à l'annexe I de la directive 91/414/CEE du Conseil, ainsi que le retrait des autorisations relatives à des produits phytopharmaceutiques contenant ces substances.

Décision 2004/140 de la Commission du 11 février 2004 concernant la non-inscription du fenthion à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des autorisations accordées pour les produits phytopharmaceutiques contenant cette substance active.

Décision 2005/864 de la Commission du 2 décembre 2005 concernant la non-inscription de l'endosulfan à l'annexe 1 de la directive 91/414/CEE du Conseil et le retrait des autorisations de mises sur le marché des spécialités phytopharmaceutiques contenant cette substance active.

Décision 2006/507 du Conseil du 14 octobre 2004 concernant la conclusion, au nom de la Communauté européenne, de la convention de Stockholm sur les polluants organiques persistants.

Décision 2006/1010 de la Commission du 22 décembre 2006 concernant la non-inscription de la phosalone à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des autorisations de produits phytopharmaceutiques contenant cette substance.

Décision 2007/25 de la Commission du 23 avril 2007 modifiant la directive 91/414/CEE du Conseil pour y inscrire les substances actives diméthoate, diméthomorphe, glufosinate, métribuzine, phosmet et propamocarbe.

Décision 2007/355 de la Commission du 21 mai 2007 concernant la non-inclusion du carbaryl à l'Annexe I de la Directive 91/414/CEE du Conseil et le retrait des autorisations de mises sur le marché des spécialités contenant cette substance.

Décision 2007/379 de la Commission du 25/05/07 concernant la non-inscription du fénitrothion à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des autorisations de produits phytopharmaceutiques contenant cette substance.

Décision 2007/387 de la Commission du 6 Juin 2007 concernant la non inclusion du dichlorvos à l'Annexe 1 de la directive du Conseil 91/414/CEE et l'annulation des autorisations de mise sur le marché des produits phytopharmaceutiques contenant cette substance.

Décision 2007/392 de la Commission du 21 mai 2007 concernant la non-inscription de l'oxydéméton-méthyl à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des autorisations de produits phytopharmaceutiques contenant cette substance.

Décision 2007/393 de la Commission du 6 juin 2007 concernant la non-inscription du diazinon à l'Annexe I de la Directive 91/414/EEC du Conseil et le retrait des autorisations de mise sur le marché des produits de protection des plantes contenant cette substance.

Décision 2008/296 de la Commission du 4 avril 2008 concernant la non-inscription de l'azocyclotin, du cyhexatin et du thidiazuron à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des autorisations accordées pour les produits.

Décision 2008/317 de la Commission du 10 avril 2008 concernant la non-inscription de la roténone, de l'extrait d'Equisetum et de l'hydrochlorure de quinine à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des autorisations de produits phytopharmaceutiques contenant ces substances.

Décision 2008/764 de la Commission du 30 septembre 2008 concernant la non-inscription du dicofol à l'annexe 1 de la Directive 91/414/CEE du Conseil et le retrait des autorisations de produits phytopharmaceutiques contenant cette substance.

Décision 2008/934 de la Commission du 5 décembre 2008 concernant la non-inscription de certaines substances actives à l'annexe I de la directive 91/414/CEE du Conseil et le retrait des autorisations de produits phytopharmaceutiques contenant ces substances.

Décision 2008/941 de la Commission du 8 décembre 2008 concernant la non-inscription de certaines substances actives à l'annexe 1 de la directive 91/414/CEE du Conseil et le retrait des autorisations de produits phytopharmaceutiques contenant ces substances.

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Directive 2005/53/CE de la Commission du 16 septembre 2005 modifiant la directive 91/414/CEE du Conseil en vue d'y inscrire les substances actives chlorothalonil, chlorotoluron, cyperméthrine, daminozide et thiophanate-méthyl.

Directive 2005/72 de la Commission du 21 octobre 2005 modifiant la directive 91/414/CEE du Conseil, en vue d'y inscrire les substances actives chlorpyriphos, chlorpyriphos-méthyl, mancozèbe, manèbe et métirame.

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Annex 1: List of R-phrases according to Regulation 1272/2008/EC

CMR	Category		R-phrases
		R20	Harmful by inhalation
		R21	Harmful in contact with skin
		R22	Harmful if swallowed
		R23	Toxic by inhalation
		R24	Toxic in contact with skin
		R25	Toxic if swallowed
		R26	Very toxic by inhalation
		R27	Very toxic in contact with skin
		R28	Very toxic if swallowed
		R36	Irritating to eyes
		R37	Irritating to respiratory system
		R38	Irritating to skin
		R39	Danger of very serious irreversible effects
Carcinogenic	Cat. 3	R40	Limited evidence of a carcinogenic effect
		R41	Risk of serious damage to eyes
		R42	May cause sensitisation by inhalation
		R43	May cause sensitisation by skin contact
	Cat. 1-2	R45	May cause cancer
Mutagenic	Cat. 1-2	R46	May cause heritable genetic damage
		R47	May cause birth defects
		R48	Danger of serious damage to health by prolonged exposure
Carcinogenic		R49	May cause cancer by inhalation
		R50	Very toxic to aquatic organisms
		R51	Toxic to aquatic organisms
		R52	Harmful to aquatic organisms
		R53	May cause long-term adverse effects in the aquatic environment
		R54	Toxic to flora
		R55	Toxic to fauna
		R56	Toxic to soil organisms
		R57	Toxic to bees
		R58	May cause long-term adverse effects in the environment
Reprotoxic	Cat. 1-2	R60	May impair fertility
		R61	May cause harm to the unborn child
	Cat. 3	R62	Possible risk of impaired fertility
		R63	Possible risk of harm to the unborn child
		R64	May cause harm to breast-fed babies
		R65	Harmful: may cause lung damage if swallowed
		R66	Repeated exposure may cause skin dryness or cracking
		R67	Vapours may cause drowsiness and dizziness
Mutagenic	Cat. 3	R68	Possible risk of irreversible effects

Complete classification of CMR substances:
Carcinogenic, category 1 T (toxic) with R45 or R49
Carcinogenic, category 2 T (toxic) with R45 or R49
Carcinogenic, category 3 Xn (harmful) with R40
Mutagenic, category 1 T (toxic) with R46
Mutagenic, category 2 T (toxic)
Mutagenic, category 3 Xn (harmful) with R68
Toxic to reproduction, category 1 T (toxic) with R60 and/or R61
Toxic to reproduction, category 2 T (toxic) with R60 and/or R61
Toxic to reproduction, category 3 Xn (harmful) with R62 and/or R63

R14/15	Reacts violently with water, liberating extremely flammable gases
R15/29	Contact with water liberates toxic, extremely flammable gases
R20/21	Harmful by inhalation and in contact with skin
R20/22	Harmful by inhalation and if swallowed
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R23/24	Toxic by inhalation and in contact with skin
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R23/25	Toxic by inhalation and in contact with skin
R24/25	Toxic in contact with skin and if swallowed
R26/27	Very toxic by inhalation and in contact with skin
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R26/28	Very toxic by inhalation and if swallowed
R27/28	Very toxic in contact with skin and if swallowed
R36/37	Irritating to eyes and respiratory system
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37/38	Irritating to respiratory system and skin
R39/23	Toxic: danger of very serious irreversible effects through inhalation
R39/23/24	Toxic: danger of very serious irreversible effects through inhalation and in contact with skin
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R39/23/25	Toxic: danger of very serious irreversible effects through inhalation and if swallowed
R39/24	Toxic: danger of very serious irreversible effects in contact with skin
R39/24/25	Toxic: danger of very serious irreversible effects in contact with skin and if swallowed
R39/25	Toxic: danger of very serious irreversible effects if swallowed
R39/26	Very toxic: danger of very serious irreversible effects through inhalation
R39/26/27	Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin
R39/26/27/28	Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R39/26/28	Very toxic: danger of very serious irreversible effects through inhalation and if swallowed
R39/27	Very toxic: danger of very serious irreversible effects in contact with skin
R39/27/28	Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed
R39/28	Very toxic: danger of very serious irreversible effects if swallowed
R40/20	Harmful: possible risk of very serious irreversible effects through inhalation
R40/20/21	Harmful: possible risk of very serious irreversible effects through inhalation and in contact with skin
R40/20/21/22	Harmful: possible risk of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R40/20/22	Harmful: possible risk of very serious irreversible effects through inhalation and if swallowed
R40/21	Harmful: possible risk of very serious irreversible effects in contact with skin
R40/21/22	Harmful: possible risk of very serious irreversible effects in contact with skin and if swallowed
R40/22	Harmful: possible risk of very serious irreversible effects if swallowed
R42/43	May cause sensitisation by inhalation and skin contact
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/20/21	Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed

Annex 2:
Exposure levels for the various population groups (women of childbearing age, elderly people, children aged 3-6 years, 7-10 years, 11-14 years, 15 years and over)

Table G33: Estimated exposure (mean and P95) in women of child-bearing age to reprotoxic substances (µg/kg bw/day) and contribution of foods (%)

Food group	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.006	0.000	0.016	0.0	5.4	0.000	0.006	0.000	0.016	0.0	2.5
Breakfast cereals	0.000	0.000	0.000	0.005	0.0	0.3	0.000	0.000	0.000	0.005	0.0	0.1
Pasta	0.000	0.003	0.000	0.009	0.0	2.5	0.000	0.003	0.000	0.009	0.0	1.2
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	1.7	0.000	0.002	0.000	0.007	0.0	0.8
Croissant-like pastries	0.000	0.001	0.000	0.006	0.0	0.8	0.000	0.001	0.000	0.006	0.0	0.4
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.005	0.0	0.9	0.000	0.001	0.000	0.005	0.0	0.4
Pastries and cakes	0.000	0.002	0.000	0.007	0.0	2.0	0.000	0.002	0.000	0.007	0.0	0.9
Milk	0.000	0.003	0.000	0.012	0.0	2.2	0.000	0.027	0.000	0.126	0.0	10.6
Ultra-fresh dairy products	0.000	0.002	0.000	0.006	0.0	1.9	0.000	0.024	0.000	0.064	0.0	9.3
Cheese	0.000	0.001	0.000	0.002	0.0	0.5	0.000	0.006	0.000	0.019	0.0	2.4
Eggs and egg products	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.004	0.000	0.017	0.0	1.5
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.003	0.000	0.009	0.0	1.1
Meat	0.000	0.001	0.000	0.003	0.0	0.8	0.000	0.011	0.000	0.027	0.0	4.1
Poultry and game	0.000	0.001	0.000	0.002	0.0	0.5	0.000	0.007	0.000	0.023	0.0	2.6
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.009	0.0	0.1
Delicatessen meats	0.000	0.001	0.000	0.002	0.0	0.5	0.000	0.007	0.000	0.020	0.0	2.6
Fish	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.004	0.000	0.017	0.0	1.5
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.000	0.008	0.0	0.3
Vegetables (excluding potatoes)	0.000	0.014	0.000	0.035	0.0	12.3	0.005	0.058	0.026	0.144	100.0	22.8
Potatoes and potato products	0.000	0.011	0.000	0.031	0.0	9.5	0.000	0.005	0.000	0.013	0.0	1.9
Pulses	0.000	0.001	0.000	0.014	0.0	0.7	0.000	0.000	0.000	0.006	0.0	0.1
Fruits	0.008	0.019	0.052	0.077	45.8	16.6	0.000	0.008	0.000	0.023	0.0	3.0
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.000	.	0.000	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.1
Sugars and sugar derivatives	0.000	0.001	0.000	0.004	0.0	0.5	0.000	0.001	0.000	0.004	0.0	0.3
Water	0.009	0.011	0.080	0.080	54.2	9.7	0.000	0.013	0.000	0.068	0.0	5.2
Soft drinks	0.000	0.001	0.000	0.006	0.0	1.2	0.000	0.012	0.000	0.049	0.0	4.6
Alcoholic beverages	0.000	0.000	0.000	0.003	0.0	0.3	0.000	0.003	0.000	0.025	0.0	1.4
Coffee	0.000	0.000	.	0.000	0.0	0.0	0.000	0.016	0.000	0.071	0.0	6.2
Other hot beverages	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.013	0.000	0.071	0.0	5.0
Pizzas, quiches and savoury pastries	0.000	0.005	0.000	0.027	0.0	4.3	0.000	0.002	0.000	0.010	0.0	0.8
Sandwiches and snacks	0.000	0.005	0.000	0.030	0.0	4.2	0.000	0.001	0.000	0.008	0.0	0.5
Soups and broths	0.000	0.010	0.000	0.074	0.0	8.6	0.000	0.004	0.000	0.030	0.0	1.5
Mixed dishes	0.000	0.010	0.000	0.043	0.0	8.6	0.000	0.004	0.000	0.016	0.0	1.5
Dairy-based desserts	0.000	0.001	0.000	0.003	0.0	0.6	0.000	0.006	0.000	0.029	0.0	2.2
Compotes and cooked fruit	0.000	0.001	0.000	0.008	0.0	0.8	0.000	0.001	0.000	0.008	0.0	0.4
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.7	0.000	0.001	0.000	0.004	0.0	0.3
TOTAL	**0.017**	**0.117**	**0.099**	**0.223**	**100.0**	**100.0**	**0.005**	**0.255**	**0.026**	**0.425**	**100.0**	**100.0**

Table G34: Estimated exposure (mean and P95) in children aged 3 to 6 years to carbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Aldicarb mean (UB)	Aldicarb P95 (UB)	Aldicarb contrib (UB)	Carbaryl mean (LB)	Carbaryl mean (UB)	Carbaryl P95 (UB)	Carbaryl contrib (LB)	Carbaryl contrib (UB)	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)
Bread and dried bread products				0.000	0.005	0.013	0.0	2.2	0.000	0.008	0.000	0.022
Breakfast cereals				0.000	0.002	0.009	0.0	0.8	0.000	0.003	0.000	0.014
Pasta				0.000	0.005	0.014	0.0	2.3	0.000	0.009	0.000	0.024
Rice and wheat products				0.000	0.003	0.011	0.0	1.5	0.000	0.006	0.000	0.018
Croissant-like pastries				0.000	0.002	0.008	0.0	1.0	0.000	0.004	0.000	0.013
Sweet and savoury biscuits and bars	0.001	0.011	0.2	0.000	0.003	0.008	0.0	1.2	0.000	0.004	0.000	0.013
Pastries and cakes				0.000	0.004	0.013	0.0	2.0	0.000	0.007	0.000	0.022
Milk	0.200	0.538	40.6	0.000	0.018	0.047	0.0	8.1	0.000	0.018	0.000	0.047
Ultra-fresh dairy products	0.022	0.078	4.4	0.000	0.008	0.021	100.0	3.8	0.000	0.008	0.000	0.021
Cheese	0.002	0.008	0.5	0.000	0.001	0.004	0.0	0.6	0.000	0.001	0.000	0.004
Eggs and egg products	0.008	0.038	1.7	0.000	0.001	0.004	0.0	0.4	0.000	0.001	0.000	0.004
Butter	0.001	0.004	0.3									
Meat	0.025	0.065	5.1	0.000	0.002	0.006	0.0	1.0	0.000	0.002	0.000	0.006
Poultry and game	0.013	0.047	2.7	0.000	0.001	0.004	0.0	0.5	0.000	0.001	0.000	0.004
Offal	0.000	0.013	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.017	0.047	3.5	0.000	0.002	0.004	0.0	0.7	0.000	0.002	0.000	0.004
Fish	0.003	0.012	0.7	0.000	0.001	0.003	0.0	0.4	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.003	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.004	0.043	0.7	0.000	0.053	0.149	0.0	24.5	0.000	0.026	0.000	0.073
Potatoes and potato products	0.039	0.097	7.8	0.000	0.010	0.026	0.0	4.8	0.000	0.029	0.000	0.074
Pulses	0.003	0.044	0.5	0.000	0.001	0.012	0.0	0.4	0.000	0.002	0.000	0.030
Fruits	0.066	0.166	13.4	0.000	0.017	0.041	0.0	7.7	0.016	0.041	0.075	0.126
Dried fruits, nuts and seeds				0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002
Ice creams, sorbets and frozen desserts				0.000	0.000	0.007	0.0	0.1	0.000	0.000	0.000	0.011
Chocolate				0.000	0.001	0.004	0.0	0.3				
Sugars and sugar derivatives	0.000	0.000	0.0	0.000	0.001	0.005	0.0	0.3	0.000	0.001	0.000	0.007
Water	0.003	0.008	0.6	0.000	0.013	0.076	0.0	6.1	0.009	0.011	0.080	0.080
Soft drinks	0.003	0.008	0.7	0.000	0.033	0.085	0.0	15.1	0.000	0.004	0.000	0.012
Alcoholic beverages	0.000	0.001	0.0	0.000	0.000	0.008	0.0	0.0	0.000	0.000	0.000	0.001
Coffee				0.000	0.000	0.010	0.0	0.1				
Other hot beverages	0.000	0.009	0.1	0.000	0.005	0.033	0.0	2.1	0.000	0.000	0.000	0.011
Pizzas, quiches and savoury pastries	0.008	0.048	1.6	0.000	0.002	0.013	0.0	1.0	0.000	0.008	0.000	0.054
Sandwiches and snacks	0.005	0.056	1.0	0.000	0.001	0.015	0.0	0.6	0.000	0.005	0.000	0.060
Soups and broths	0.029	0.187	6.0	0.000	0.008	0.050	0.0	3.6	0.000	0.021	0.000	0.135
Mixed dishes	0.025	0.109	5.0	0.000	0.007	0.030	0.0	3.2	0.000	0.026	0.000	0.118
Dairy-based desserts	0.012	0.047	2.4	0.000	0.003	0.012	0.0	1.3	0.000	0.003	0.000	0.013
Compotes and cooked fruit				0.000	0.004	0.018	0.0	1.9	0.000	0.007	0.000	0.030
Seasonings and sauces	0.003	0.018	0.5	0.000	0.001	0.005	0.0	0.2	0.000	0.002	0.000	0.018
TOTAL	**0.494**	**0.922**	**100.0**	**0.000**	**0.218**	**0.399**	**100.0**	**100.0**	**0.024**	**0.262**	**0.127**	**0.465**

Food group	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Carbetamide mean (UB)	Carbetamide P95 (UB)	Carbetamide contrib (UB)	Carbofuran mean (LB)	Carbofuran mean (UB)	Carbofuran P95 (LB)	Carbofuran P95 (UB)	Carbofuran contrib (LB)	Carbofuran contrib (UB)
Bread and dried bread products	0.0	3.1				0.000	0.008	0.000	0.022	0.0	3.5
Breakfast cereals	0.0	1.1				0.000	0.003	0.000	0.014	0.0	1.3
Pasta	0.0	3.2				0.000	0.009	0.000	0.024	0.0	3.7
Rice and wheat products	0.0	2.1				0.000	0.006	0.000	0.018	0.0	2.4
Croissant-like pastries	0.0	1.4				0.000	0.004	0.000	0.013	0.0	1.6
Sweet and savoury biscuits and bars	0.0	1.7				0.000	0.004	0.000	0.013	0.0	1.8
Pastries and cakes	0.0	2.7				0.000	0.007	0.000	0.022	0.0	3.1
Milk	0.0	6.7	0.018	0.047	44.3	0.000	0.018	0.000	0.047	0.0	7.7
Ultra-fresh dairy products	0.0	3.1	0.008	0.021	21.0	0.000	0.006	0.000	0.017	0.0	2.7
Cheese	0.0	0.5	0.001	0.004	3.2						
Eggs and egg products	0.0	0.3	0.001	0.004	2.0	0.000	0.001	0.000	0.004	0.0	0.3
Butter			0.001	0.002	1.8						
Meat	0.0	0.8	0.002	0.006	5.6	0.000	0.002	0.000	0.006	0.0	1.0
Poultry and game	0.0	0.5	0.001	0.004	3.0	0.000	0.001	0.000	0.004	0.0	0.5
Offal	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.0	0.6	0.002	0.004	3.9	0.000	0.002	0.000	0.004	0.0	0.7
Fish	0.0	0.4	0.001	0.003	2.4	0.000	0.001	0.000	0.003	0.0	0.4
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.0	10.1				0.001	0.046	0.004	0.127	100.0	20.3
Potatoes and potato products	0.0	11.1				0.000	0.010	0.000	0.026	0.0	4.6
Pulses	0.0	0.8				0.000	0.001	0.000	0.012	0.0	0.4
Fruits	64.2	15.5				0.000	0.017	0.000	0.041	0.0	7.4
Dried fruits, nuts and seeds	0.0	0.1				0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.0	0.1				0.000	0.000	0.000	0.011	0.0	0.1
Chocolate						0.000	0.001	0.000	0.004	0.0	0.3
Sugars and sugar derivatives	0.0	0.3				0.000	0.001	0.000	0.007	0.0	0.4
Water	35.8	4.3	0.002	0.004	4.0	0.000	0.013	0.000	0.076	0.0	5.9
Soft drinks	0.0	1.6				0.000	0.033	0.000	0.085	0.0	14.6
Alcoholic beverages	0.0	0.0				0.000	0.000	0.000	0.008	0.0	0.0
Coffee						0.000	0.000	0.000	0.010	0.0	0.1
Other hot beverages	0.0	0.1				0.000	0.005	0.000	0.033	0.0	2.0
Pizzas, quiches and savoury pastries	0.0	3.2	0.000	0.003	0.4	0.000	0.002	0.000	0.014	0.0	1.0
Sandwiches and snacks	0.0	2.1				0.000	0.001	0.000	0.015	0.0	0.6
Soups and broths	0.0	8.0				0.000	0.008	0.000	0.050	0.0	3.5
Mixed dishes	0.0	10.1	0.000	0.003	1.1	0.000	0.007	0.000	0.030	0.0	3.1
Dairy-based desserts	0.0	1.2	0.003	0.011	7.0	0.000	0.003	0.000	0.012	0.0	1.3
Compotes and cooked fruit	0.0	2.6				0.000	0.007	0.000	0.030	0.0	3.0
Seasonings and sauces	0.0	0.6	0.000	0.001	0.2	0.000	0.001	0.000	0.005	0.0	0.3
TOTAL	**100.0**	**100.0**	**0.040**	**0.072**	**100.0**	**0.001**	**0.227**	**0.004**	**0.394**	**100.0**	**100.0**

Food group	Methomyl mean (LB)	Methomyl mean (UB)	Methomyl P95 (LB)	Methomyl P95 (UB)	Methomyl contrib (LB)	Methomyl contrib (UB)	Triallate mean (UB)	Triallate P95 (UB)	Triallate contrib (UB)
Bread and dried bread products									
Breakfast cereals									
Pasta									
Rice and wheat products									
Croissant-like pastries									
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.004	0.0	0.2			
Pastries and cakes									
Milk	0.000	0.026	0.000	0.069	0.0	19.5	0.011	0.028	42.2
Ultra-fresh dairy products	0.000	0.012	0.000	0.031	0.0	9.3	0.005	0.013	20.0
Cheese	0.000	0.002	0.000	0.006	0.0	1.4	0.001	0.002	3.1
Eggs and egg products	0.000	0.001	0.000	0.004	0.0	0.6	0.001	0.004	3.1
Butter	0.000	0.001	0.000	0.003	0.0	0.8	0.000	0.001	1.7
Meat	0.000	0.002	0.000	0.006	0.0	1.7	0.001	0.003	5.7
Poultry and game	0.000	0.001	0.000	0.004	0.0	0.9	0.001	0.002	2.8
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.002	0.000	0.004	0.0	1.2	0.001	0.002	3.7
Fish	0.000	0.001	0.000	0.003	0.0	0.7	0.001	0.002	2.3
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.2
Vegetables (excluding potatoes)	0.000	0.001	0.000	0.017	0.0	1.1			
Potatoes and potato products	0.000	0.015	0.000	0.038	0.0	11.6			
Pulses	0.000	0.001	0.000	0.017	0.0	0.8			
Fruits	0.000	0.025	0.001	0.063	100.0	19.4			
Dried fruits, nuts and seeds									
Ice creams, sorbets and frozen desserts									
Chocolate									
Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0.0	0.0			
Water	0.000	0.003	0.000	0.011	0.0	2.5	0.002	0.004	6.3
Soft drinks	0.000	0.005	0.000	0.012	0.0	3.6			
Alcoholic beverages	0.000	0.000	0.000	0.001	0.0	0.0			
Coffee									
Other hot beverages	0.000	0.000	0.000	0.013	0.0	0.3			
Pizzas, quiches and savoury pastries	0.000	0.003	0.000	0.020	0.0	2.5	0.000	0.002	0.4
Sandwiches and snacks	0.000	0.002	0.000	0.022	0.0	1.5			
Soups and broths	0.000	0.012	0.000	0.073	0.0	8.8			
Mixed dishes	0.000	0.010	0.000	0.043	0.0	7.8	0.000	0.002	1.1
Dairy-based desserts	0.000	0.004	0.000	0.017	0.0	3.1	0.002	0.007	7.0
Compotes and cooked fruit									
Seasonings and sauces	0.000	0.001	0.000	0.007	0.0	0.6	0.000	0.001	0.3
TOTAL	**0.000**	**0.131**	**0.001**	**0.228**	**100.0**	**100.0**	**0.025**	**0.046**	**100.0**

Table G35: Estimated exposure (mean and P95) in children aged 3 to 6 years to dicarboximides (µg/kg bw/day) and contribution of foods (%)

Food group	Folpet mean (LB)	Folpet mean (UB)	Folpet P95 (UB)	Folpet contrib (LB)	Folpet contrib (UB)	Iprodione mean (LB)	Iprodione mean (UB)	Iprodione P95 (LB)	Iprodione P95 (UB)	Iprodione contrib (LB)	Iprodione contrib (UB)	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.008	0.022	0.0	1.3	0.000	0.008	0.000	0.022	0.0	1.2	0.000	0.008	0.000	0.022	0.0	1.2
Breakfast cereals	0.000	0.003	0.014	0.0	0.5	0.000	0.003	0.000	0.014	0.0	0.5	0.000	0.003	0.000	0.014	0.0	0.4
Pasta	0.000	0.009	0.024	0.0	1.4	0.000	0.009	0.000	0.024	0.0	1.3	0.000	0.009	0.000	0.024	0.0	1.3
Rice and wheat products	0.000	0.006	0.018	0.0	0.9	0.000	0.006	0.000	0.018	0.0	0.9	0.000	0.006	0.000	0.018	0.0	0.8
Croissant-like pastries	0.000	0.004	0.013	0.0	0.6	0.000	0.004	0.000	0.013	0.0	0.6	0.000	0.004	0.000	0.013	0.0	0.6
Sweet and savoury biscuits and bars	0.000	0.005	0.014	0.0	0.8	0.000	0.004	0.000	0.013	0.0	0.7	0.000	0.004	0.000	0.013	0.0	0.6
Pastries and cakes	0.000	0.007	0.022	0.0	1.2	0.000	0.007	0.000	0.022	0.0	1.1	0.000	0.007	0.000	0.022	0.0	1.1
Milk	0.000	0.070	0.189	0.0	11.4	0.000	0.070	0.000	0.189	0.0	11.0	0.000	0.186	0.000	0.500	0.0	28.3
Ultra-fresh dairy products	0.000	0.047	0.107	0.0	7.5	0.000	0.047	0.000	0.107	0.0	7.3	0.000	0.088	0.000	0.222	0.0	13.4
Cheese	0.000	0.013	0.040	0.0	2.1	0.000	0.013	0.000	0.040	0.0	2.0	0.000	0.013	0.000	0.042	0.0	2.1
Eggs and egg products	0.000	0.008	0.036	0.0	1.3	0.000	0.008	0.000	0.036	0.0	1.2	0.000	0.009	0.000	0.040	0.0	1.3
Butter	0.000	0.007	0.020	0.0	1.2	0.000	0.007	0.000	0.020	0.0	1.1	0.000	0.008	0.000	0.021	0.0	1.2
Meat	0.000	0.024	0.057	0.0	3.9	0.000	0.024	0.000	0.057	0.0	3.7	0.000	0.025	0.000	0.060	0.0	3.8
Poultry and game	0.000	0.012	0.041	0.0	1.9	0.000	0.012	0.000	0.041	0.0	1.8	0.000	0.013	0.000	0.043	0.0	1.9
Offal	0.000	0.000	0.011	0.0	0.0	0.000	0.000	0.000	0.011	0.0	0.0	0.000	0.000	0.000	0.012	0.0	0.0
Delicatessen meats	0.000	0.015	0.041	0.0	2.5	0.000	0.015	0.000	0.041	0.0	2.4	0.000	0.016	0.000	0.044	0.0	2.5
Fish	0.000	0.004	0.013	0.0	0.6	0.000	0.004	0.000	0.013	0.0	0.6	0.000	0.010	0.000	0.035	0.0	1.5
Crustaceans and molluscs	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.001	0.000	0.009	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.046	0.134	0.0	7.4	0.138	0.159	0.631	0.651	76.9	24.8	0.007	0.103	0.077	0.293	100.0	15.6
Potatoes and potato products	0.000	0.164	0.504	0.0	26.5	0.000	0.022	0.000	0.051	0.0	3.4	0.000	0.012	0.000	0.027	0.0	1.8
Pulses	0.000	0.001	0.017	0.0	0.2	0.000	0.002	0.000	0.024	0.0	0.3	0.000	0.001	0.000	0.012	0.0	0.1
Fruits	0.005	0.015	0.065	100.0	2.5	0.038	0.052	0.229	0.250	21.4	8.2	0.000	0.017	0.000	0.041	0.0	2.6
Dried fruits, nuts and seeds	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.011	0.0	0.0	0.000	0.000	0.000	0.011	0.0	0.0	0.000	0.000	0.000	0.011	0.0	0.0
Chocolate	0.000	0.002	0.008	0.0	0.2	0.000	0.002	0.000	0.008	0.0	0.2	0.000	0.001	0.000	0.004	0.0	0.1
Sugars and sugar derivatives	0.000	0.001	0.009	0.0	0.2	0.000	0.001	0.000	0.009	0.0	0.2	0.000	0.001	0.000	0.007	0.0	0.2
Water	0.000	0.025	0.151	0.0	4.1	0.000	0.025	0.000	0.151	0.0	3.9	0.000	0.013	0.000	0.076	0.0	2.0
Soft drinks	0.000	0.066	0.169	0.0	10.6	0.000	0.066	0.000	0.169	0.0	10.3	0.000	0.033	0.000	0.085	0.0	5.0
Alcoholic beverages	0.000	0.000	0.015	0.0	0.0	0.000	0.000	0.003	0.015	0.0	0.0	0.000	0.000	0.000	0.008	0.0	0.0
Coffee	0.000	0.000	0.020	0.0	0.0	0.000	0.000	0.000	0.020	0.0	0.0	0.000	0.000	0.000	0.010	0.0	0.0
Other hot beverages	0.000	0.009	0.066	0.0	1.5	0.000	0.009	0.000	0.066	0.0	1.4	0.000	0.005	0.000	0.033	0.0	0.7
Pizzas, quiches and savoury pastries	0.000	0.004	0.020	0.0	0.6	0.000	0.005	0.000	0.028	0.0	0.8	0.000	0.004	0.000	0.026	0.0	0.6
Sandwiches and snacks	0.000	0.002	0.021	0.0	0.3	0.003	0.006	0.077	0.087	1.7	0.9	0.000	0.001	0.000	0.015	0.0	0.2
Soups and broths	0.000	0.011	0.071	0.0	1.8	0.000	0.016	0.000	0.101	0.0	2.5	0.000	0.008	0.000	0.050	0.0	1.2
Mixed dishes	0.000	0.011	0.042	0.0	1.8	0.000	0.015	0.000	0.059	0.0	2.3	0.000	0.011	0.000	0.038	0.0	1.7
Dairy-based desserts	0.000	0.013	0.052	0.0	2.0	0.000	0.013	0.000	0.052	0.0	2.0	0.000	0.030	0.000	0.114	0.0	4.5
Compotes and cooked fruit	0.000	0.007	0.030	0.0	1.1	0.000	0.007	0.000	0.030	0.0	1.1	0.000	0.007	0.000	0.030	0.0	1.0
Seasonings and sauces	0.000	0.001	0.008	0.0	0.2	0.000	0.002	0.000	0.010	0.0	0.3	0.000	0.001	0.000	0.007	0.0	0.2
TOTAL	**0.005**	**0.619**	**1.069**	**100.0**	**100.0**	**0.180**	**0.641**	**0.678**	**1.258**	**100.0**	**100.0**	**0.007**	**0.658**	**0.056**	**1.094**	**100.0**	**100.0**

Table G36: Estimated exposure (mean and P95) in children aged 3 to 6 years to dithiocarbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Dithiocarbamates mean (UB)	Dithiocarbamates P95 (UB)	Dithiocarbamates contrib (UB)
Bread and dried bread products	0.320	0.873	9.4
Breakfast cereals	0.116	0.571	3.4
Pasta	0.340	0.952	10.0
Rice and wheat products	0.221	0.707	6.5
Croissant-like pastries	0.060	0.393	1.8
Sweet and savoury biscuits and bars	0.042	0.217	1.2
Pastries and cakes	0.082	0.514	2.4
Milk	0.035	0.094	1.0
Ultra-fresh dairy products	0.012	0.033	0.4
Cheese			
Eggs and egg products			
Butter			
Meat			
Poultry and game			
Offal			
Delicatessen meats			
Fish			
Crustaceans and molluscs			
Vegetables (excluding potatoes)	0.222	0.541	6.5
Potatoes and potato products	0.182	0.468	5.3
Pulses	0.015	0.212	0.4
Fruits	0.662	1.656	19.4
Dried fruits, nuts and seeds			
Ice creams, sorbets and frozen desserts			
Chocolate			
Sugars and sugar derivatives			
Water	0.002	0.004	0.0
Soft drinks	0.793	2.671	23.2
Alcoholic beverages	0.001	0.051	0.0
Coffee			
Other hot beverages			
Pizzas, quiches and savoury pastries	0.000	0.005	0.0
Sandwiches and snacks			
Soups and broths	0.043	0.357	1.3
Mixed dishes	0.001	0.007	0.0
Dairy-based desserts	0.010	0.046	0.3
Compotes and cooked fruit	0.251	1.199	7.4
Seasonings and sauces	0.002	0.017	0.0
TOTAL	**3.411**	**5.887**	**100.0**

Table G37: Estimated exposure (mean and P95) in children aged 3 to 6 years to imidazoles (µg/kg bw/day) and contribution of foods (%)

Food group	Imazalil mean (LB)	Imazalil mean (UB)	Imazalil P95 (LB)	Imazalil P95 (UB)	Imazalil contrib (LB)	Imazalil contrib (UB)	Prochloraz mean (UB)	Prochloraz P95 (UB)	Prochloraz contrib (UB)
Bread and dried bread products	0.000	0.160	0.000	0.437	0.0	9.4	0.008	0.022	2.1
Breakfast cereals	0.000	0.058	0.000	0.286	0.0	3.4	0.003	0.014	0.8
Pasta	0.000	0.170	0.000	0.476	0.0	10.0	0.009	0.024	2.3
Rice and wheat products	0.000	0.110	0.000	0.353	0.0	6.5	0.006	0.018	1.5
Croissant-like pastries	0.000	0.074	0.000	0.257	0.0	4.3	0.004	0.013	1.0
Sweet and savoury biscuits and bars	0.000	0.080	0.000	0.248	0.0	4.7	0.004	0.013	1.1
Pastries and cakes	0.000	0.142	0.000	0.447	0.0	8.4	0.007	0.022	1.9
Milk	0.000	0.018	0.000	0.047	0.0	1.0	0.018	0.047	4.7
Ultra-fresh dairy products	0.000	0.006	0.000	0.017	0.0	0.4	0.006	0.017	1.6
Cheese									
Eggs and egg products	0.000	0.001	0.000	0.004	0.0	0.0			
Butter									
Meat	0.000	0.004	0.000	0.011	0.0	0.3			
Poultry and game	0.000	0.002	0.000	0.008	0.0	0.1			
Offal	0.000	0.000	0.000	0.002	0.0	0.0			
Delicatessen meats	0.000	0.003	0.000	0.008	0.0	0.2			
Fish							0.001	0.003	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.104	0.000	0.263	0.0	6.2	0.025	0.073	6.7
Potatoes and potato products	0.147	0.180	1.167	1.207	58.5	10.6	0.015	0.038	4.0
Pulses	0.000	0.005	0.000	0.089	0.0	0.3	0.001	0.014	0.3
Fruits	0.048	0.113	0.275	0.332	19.2	6.6	0.033	0.083	8.9
Dried fruits, nuts and seeds	0.000	0.003	0.000	0.042	0.0	0.2	0.000	0.002	0.0
Ice creams, sorbets and frozen desserts	0.000	0.004	0.000	0.226	0.0	0.3	0.000	0.011	0.1
Chocolate	0.000	0.003	0.000	0.016	0.0	0.2	0.003	0.016	0.8
Sugars and sugar derivatives	0.000	0.018	0.000	0.135	0.0	1.0	0.001	0.012	0.4
Water	0.000	0.049	0.000	0.301	0.0	2.9	0.049	0.301	13.0
Soft drinks	0.056	0.191	0.467	0.670	22.3	11.3	0.131	0.339	34.9
Alcoholic beverages	0.000	0.000	0.000	0.030	0.0	0.0	0.000	0.030	0.1
Coffee	0.000	0.000	0.000	0.041	0.0	0.0	0.000	0.041	0.1
Other hot beverages	0.000	0.019	0.000	0.131	0.0	1.1	0.019	0.131	4.9
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.026	0.0	0.3	0.003	0.016	0.7
Sandwiches and snacks	0.000	0.003	0.000	0.030	0.0	0.2	0.002	0.018	0.4
Soups and broths	0.000	0.016	0.000	0.101	0.0	0.9	0.010	0.061	2.5
Mixed dishes	0.000	0.014	0.000	0.059	0.0	0.8	0.009	0.036	2.3
Dairy-based desserts	0.000	0.003	0.000	0.013	0.0	0.2	0.003	0.012	0.7
Compotes and cooked fruit	0.000	0.138	0.000	0.599	0.0	8.1	0.007	0.030	1.8
Seasonings and sauces	0.000	0.001	0.000	0.009	0.0	0.1	0.001	0.006	0.2
TOTAL	**0.251**	**1.697**	**1.331**	**3.073**	**100.0**	**100.0**	**0.375**	**0.736**	**100.0**

Table G38: Estimated exposure (mean and P95) in children aged 3 to 6 years to organochlorines (µg/kg bw/day) and contribution of foods (%)

Food group	Chlorothalonil mean (LB)	Chlorothalonil mean (UB)	Chlorothalonil P95 (LB)	Chlorothalonil P95 (UB)	Chlorothalonil contrib (LB)	Chlorothalonil contrib (UB)	Dicofol mean (UB)	Dicofol P95 (UB)	Dicofol contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.013	0.0	2.3	0.011	0.031	3.0
Breakfast cereals	0.000	0.002	0.000	0.009	0.0	0.8	0.004	0.020	1.1
Pasta	0.000	0.005	0.000	0.014	0.0	2.5	0.012	0.033	3.2
Rice and wheat products	0.000	0.003	0.000	0.011	0.0	1.6	0.008	0.025	2.1
Croissant-like pastries	0.000	0.002	0.000	0.008	0.0	1.1	0.005	0.018	1.4
Sweet and savoury biscuits and bars	0.000	0.003	0.000	0.012	0.0	1.5	0.006	0.018	1.6
Pastries and cakes	0.000	0.004	0.000	0.013	0.0	2.1	0.010	0.031	2.7
Milk	0.000	0.011	0.000	0.028	0.0	5.1	0.018	0.047	4.7
Ultra-fresh dairy products	0.000	0.007	0.000	0.018	0.0	3.4	0.011	0.026	2.8
Cheese	0.000	0.001	0.000	0.002	0.0	0.4	0.003	0.008	0.7
Eggs and egg products	0.000	0.000	0.000	0.002	0.0	0.2	0.002	0.007	0.4
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.004	0.4
Meat	0.000	0.005	0.000	0.011	0.0	2.3	0.005	0.011	1.3
Poultry and game	0.000	0.002	0.000	0.008	0.0	1.1	0.002	0.008	0.6
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0
Delicatessen meats	0.000	0.003	0.000	0.008	0.0	1.5	0.003	0.008	0.8
Fish	0.000	0.001	0.000	0.002	0.0	0.3	0.001	0.003	0.3
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.003	0.016	0.014	0.047	100.0	8.0	0.057	0.164	15.4
Potatoes and potato products	0.000	0.046	0.000	0.175	0.0	22.1	0.022	0.051	5.9
Pulses	0.000	0.001	0.000	0.012	0.0	0.4	0.002	0.024	0.5
Fruits	0.000	0.010	0.000	0.025	0.0	4.9	0.035	0.086	9.4
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.1	0.000	0.016	0.1
Chocolate	0.000	0.001	0.000	0.004	0.0	0.4	0.002	0.008	0.4
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.3	0.001	0.011	0.4
Water	0.000	0.013	0.000	0.076	0.0	6.5	0.025	0.151	6.8
Soft drinks	0.000	0.033	0.000	0.085	0.0	15.9	0.066	0.169	17.8
Alcoholic beverages	0.000	0.000	0.000	0.008	0.0	0.0	0.000	0.015	0.0
Coffee	0.000	0.000	0.000	0.010	0.0	0.1	0.000	0.020	0.1
Other hot beverages	0.000	0.005	0.000	0.033	0.0	2.2	0.009	0.066	2.5
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.014	0.0	1.1	0.004	0.026	1.2
Sandwiches and snacks	0.000	0.001	0.000	0.015	0.0	0.7	0.003	0.030	0.7
Soups and broths	0.000	0.008	0.000	0.050	0.0	3.8	0.016	0.101	4.3
Mixed dishes	0.000	0.007	0.000	0.030	0.0	3.5	0.013	0.059	3.6
Dairy-based desserts	0.000	0.003	0.000	0.012	0.0	1.3	0.003	0.013	0.9
Compotes and cooked fruit	0.000	0.004	0.000	0.018	0.0	2.0	0.010	0.042	2.6
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.3	0.001	0.009	0.3
TOTAL	**0.003**	**0.207**	**0.014**	**0.404**	**100.0**	**100.0**	**0.371**	**0.641**	**100.0**

Food group	Endosulfan mean (LB)	Endosulfan mean (UB)	Endosulfan P95 (LB)	Endosulfan P95 (UB)	Endosulfan contrib (LB)	Endosulfan contrib (UB)
Bread and dried bread products	0.000	0.014	0.000	0.039	0.0	1.9
Breakfast cereals	0.000	0.005	0.000	0.025	0.0	0.7
Pasta	0.000	0.015	0.000	0.042	0.0	2.0
Rice and wheat products	0.000	0.010	0.000	0.031	0.0	1.3
Croissant-like pastries	0.000	0.007	0.000	0.023	0.0	0.9
Sweet and savoury biscuits and bars	0.000	0.008	0.000	0.026	0.0	1.1
Pastries and cakes	0.000	0.013	0.000	0.040	0.0	1.7
Milk	0.000	0.031	0.000	0.084	0.0	4.2
Ultra-fresh dairy products	0.000	0.015	0.000	0.037	0.0	2.0
Cheese	0.000	0.002	0.000	0.007	0.0	0.3
Eggs and egg products	0.000	0.001	0.000	0.006	0.0	0.2
Butter	0.000	0.001	0.000	0.004	0.0	0.2
Meat	0.000	0.004	0.000	0.010	0.0	0.6
Poultry and game	0.000	0.002	0.000	0.007	0.0	0.3
Offal	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.000	0.003	0.000	0.007	0.0	0.4
Fish	0.000	0.002	0.000	0.006	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.165	0.000	0.483	0.0	22.3
Potatoes and potato products	0.000	0.092	0.000	0.229	0.0	12.4
Pulses	0.000	0.008	0.000	0.118	0.0	1.0
Fruits	0.003	0.033	0.020	0.090	100.0	4.5
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.004	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.020	0.0	0.1
Chocolate	0.000	0.002	0.000	0.008	0.0	0.2
Sugars and sugar derivatives	0.000	0.002	0.000	0.013	0.0	0.2
Water	0.000	0.025	0.000	0.151	0.0	3.4
Soft drinks	0.000	0.066	0.000	0.169	0.0	9.0
Alcoholic beverages	0.000	0.000	0.000	0.015	0.0	0.0
Coffee	0.000	0.000	0.000	0.020	0.0	0.0
Other hot beverages	0.000	0.009	0.000	0.066	0.0	1.3
Pizzas, quiches and savoury pastries	0.000	0.021	0.000	0.127	0.0	2.8
Sandwiches and snacks	0.000	0.014	0.000	0.149	0.0	1.8
Soups and broths	0.000	0.079	0.000	0.500	0.0	10.7
Mixed dishes	0.000	0.067	0.000	0.293	0.0	9.1
Dairy-based desserts	0.000	0.006	0.000	0.023	0.0	0.8
Compotes and cooked fruit	0.000	0.012	0.000	0.053	0.0	1.7
Seasonings and sauces	0.000	0.005	0.000	0.047	0.0	0.7
TOTAL	**0.003**	**0.739**	**0.018**	**1.304**	**100.0**	**100.0**

Table G39: Estimated exposure (mean and P95) in children aged 3 to 6 years to organotins (µg/kg bw/day) and contribution of foods (%)

Food group	Cyhexatin mean (UB)	Cyhexatin P95 (UB)	Cyhexatin contrib (UB)	Fenbutatin oxide mean (UB)	Fenbutatin oxide P95 (UB)	Fenbutatin oxide contrib (UB)	Fentin acetate mean (UB)	Fentin acetate P95 (UB)	Fentin acetate contrib (UB)	Fentin hydroxide mean (UB)	Fentin hydroxide P95 (UB)	Fentin hydroxide contrib (UB)
Bread and dried bread products												
Breakfast cereals												
Pasta												
Rice and wheat products												
Croissant-like pastries												
Sweet and savoury biscuits and bars												
Pastries and cakes												
Milk	0.035	0.094	71.4				0.018	0.047	67.7	0.018	0.047	67.7
Ultra-fresh dairy products	0.002	0.020	4.4	0.002	0.010	23.5	0.001	0.010	4.2	0.001	0.010	4.2
Cheese				0.001	0.004	13.6						
Eggs and egg products	0.002	0.011	4.8				0.002	0.007	6.0	0.002	0.007	6.0
Butter				0.001	0.002	7.8						
Meat												
Poultry and game												
Offal												
Delicatessen meats												
Fish	0.002	0.007	3.8	0.001	0.003	10.0	0.001	0.003	3.6	0.001	0.003	3.6
Crustaceans and molluscs	0.000	0.002	0.3	0.000	0.001	0.7	0.000	0.001	0.3	0.000	0.001	0.3
Vegetables (excluding potatoes)												
Potatoes and potato products												
Pulses												
Fruits												
Dried fruits, nuts and seeds												
Ice creams, sorbets and frozen desserts												
Chocolate												
Sugars and sugar derivatives												
Water	0.002	0.004	3.2	0.002	0.004	16.8	0.002	0.004	6.1	0.002	0.004	6.1
Soft drinks												
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas, quiches and savoury pastries												
Sandwiches and snacks												
Soups and broths												
Mixed dishes												
Dairy-based desserts	0.006	0.022	11.8	0.003	0.012	27.5	0.003	0.012	11.6	0.003	0.012	11.6
Compotes and cooked fruit												
Seasonings and sauces	0.000	0.002	0.4				0.000	0.001	0.5	0.000	0.001	0.5
TOTAL	**0.049**	**0.115**	**100.0**	**0.009**	**0.018**	**100.0**	**0.026**	**0.060**	**100.0**	**0.026**	**0.060**	**100.0**

Table G40: Estimated exposure (mean and P95) in children aged 3 to 6 years to organophosphates (µg/kg bw/day) and contribution of foods (%)

Food group	Azinphos methyl mean (LB)	Azinphos methyl mean (UB)	Azinphos methyl P95 (LB)	Azinphos methyl P95 (UB)	Azinphos methyl contrib (LB)	Azinphos methyl contrib (UB)	Chlorfenvinphos mean (LB)	Chlorfenvinphos mean (UB)	Chlorfenvinphos P95 (LB)	Chlorfenvinphos P95 (UB)	Chlorfenvinphos contrib (LB)	Chlorfenvinphos contrib (UB)
Bread and dried bread products	0.000	0.008	0.000	0.022	0.0	1.2	0.000	0.005	0.000	0.013	0.0	2.5
Breakfast cereals	0.000	0.003	0.000	0.014	0.0	0.4	0.000	0.002	0.000	0.009	0.0	0.9
Pasta	0.000	0.009	0.000	0.024	0.0	1.3	0.000	0.005	0.000	0.014	0.0	2.7
Rice and wheat products	0.000	0.006	0.000	0.018	0.0	0.8	0.000	0.003	0.000	0.011	0.0	1.7
Croissant-like pastries	0.000	0.004	0.000	0.013	0.0	0.6	0.000	0.002	0.000	0.008	0.0	1.2
Sweet and savoury biscuits and bars	0.000	0.005	0.000	0.019	0.0	0.8	0.000	0.003	0.000	0.008	0.0	1.4
Pastries and cakes	0.000	0.007	0.000	0.022	0.0	1.1	0.000	0.004	0.000	0.013	0.0	2.2
Milk	0.000	0.088	0.000	0.236	0.0	13.4	0.000	0.018	0.000	0.047	0.0	9.2
Ultra-fresh dairy products	0.000	0.035	0.000	0.083	0.0	5.4	0.000	0.008	0.000	0.021	0.0	4.4
Cheese	0.000	0.003	0.000	0.008	0.0	0.4	0.000	0.001	0.000	0.004	0.0	0.7
Eggs and egg products	0.000	0.002	0.000	0.007	0.0	0.2	0.000	0.001	0.000	0.004	0.0	0.4
Butter	0.000	0.001	0.000	0.004	0.0	0.2	0.000	0.001	0.000	0.002	0.0	0.4
Meat	0.000	0.005	0.000	0.011	0.0	0.7	0.000	0.002	0.000	0.006	0.0	1.3
Poultry and game	0.000	0.002	0.000	0.008	0.0	0.4	0.000	0.001	0.000	0.004	0.0	0.6
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.003	0.000	0.008	0.0	0.5	0.000	0.002	0.000	0.004	0.0	0.8
Fish	0.000	0.005	0.000	0.016	0.0	0.7	0.000	0.001	0.000	0.003	0.0	0.5
Crustaceans and molluscs	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.106	0.000	0.295	0.0	16.1	0.000	0.023	0.000	0.068	100.0	12.3
Potatoes and potato products	0.000	0.064	0.000	0.186	0.0	9.7	0.000	0.012	0.000	0.027	0.0	6.2
Pulses	0.000	0.002	0.000	0.024	0.0	0.2	0.000	0.001	0.000	0.012	0.0	0.4
Fruits	0.004	0.036	0.026	0.096	100.0	5.5	0.000	0.017	0.000	0.041	0.0	8.8
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.011	0.0	0.0	0.000	0.000	0.000	0.007	0.0	0.1
Chocolate	0.000	0.003	0.000	0.016	0.0	0.5	0.000	0.001	0.000	0.004	0.0	0.4
Sugars and sugar derivatives	0.000	0.001	0.000	0.012	0.0	0.2	0.000	0.001	0.000	0.005	0.0	0.3
Water	0.000	0.049	0.000	0.301	0.0	7.4	0.000	0.013	0.000	0.076	0.0	7.0
Soft drinks	0.000	0.131	0.000	0.339	0.0	19.9	0.000	0.033	0.000	0.085	0.0	17.3
Alcoholic beverages	0.000	0.000	0.000	0.030	0.0	0.0	0.000	0.000	0.000	0.008	0.0	0.0
Coffee	0.000	0.000	0.000	0.041	0.0	0.1	0.000	0.000	0.000	0.010	0.0	0.1
Other hot beverages	0.000	0.019	0.000	0.131	0.0	2.8	0.000	0.005	0.000	0.033	0.0	2.4
Pizzas, quiches and savoury pastries	0.000	0.005	0.000	0.028	0.0	0.8	0.000	0.002	0.000	0.014	0.0	1.2
Sandwiches and snacks	0.000	0.003	0.000	0.030	0.0	0.4	0.000	0.001	0.000	0.015	0.0	0.7
Soups and broths	0.000	0.016	0.000	0.101	0.0	2.4	0.000	0.008	0.000	0.050	0.0	4.2
Mixed dishes	0.000	0.015	0.000	0.060	0.0	2.4	0.000	0.007	0.000	0.030	0.0	3.7
Dairy-based desserts	0.000	0.013	0.000	0.054	0.0	2.1	0.000	0.003	0.000	0.012	0.0	1.5
Compotes and cooked fruit	0.000	0.007	0.000	0.030	0.0	1.1	0.000	0.004	0.000	0.018	0.0	2.2
Seasonings and sauces	0.000	0.001	0.000	0.009	0.0	0.2	0.000	0.001	0.000	0.005	0.0	0.3
TOTAL	**0.004**	**0.656**	**0.024**	**1.173**	**100.0**	**100.0**	**0.000**	**0.191**	**0.000**	**0.319**	**100.0**	**100.0**

Food group	Chlorpyrifos ethyl mean (LB)	Chlorpyrifos ethyl mean (UB)	Chlorpyrifos ethyl P95 (LB)	Chlorpyrifos ethyl P95 (UB)	Chlorpyrifos ethyl contrib (LB)	Chlorpyrifos ethyl contrib (UB)	Chlorpyrifos methyl mean (LB)	Chlorpyrifos methyl mean (UB)	Chlorpyrifos methyl P95 (LB)	Chlorpyrifos methyl P95 (UB)	Chlorpyrifos methyl contrib (LB)	Chlorpyrifos methyl contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.013	0.0	2.2	0.004	0.012	0.015	0.030	46.3	5.3
Breakfast cereals	0.000	0.002	0.000	0.009	0.0	0.8	0.000	0.002	0.000	0.009	0.0	0.8
Pasta	0.000	0.005	0.000	0.014	0.0	2.3	0.000	0.005	0.000	0.014	0.0	2.3
Rice and wheat products	0.000	0.003	0.000	0.011	0.0	1.5	0.000	0.004	0.001	0.012	1.7	1.7
Croissant-like pastries	0.000	0.002	0.000	0.008	0.0	1.0	0.000	0.003	0.003	0.015	3.7	1.5
Sweet and savoury biscuits and bars	0.000	0.003	0.000	0.008	0.0	1.2	0.003	0.010	0.010	0.033	30.3	4.4
Pastries and cakes	0.000	0.004	0.000	0.013	0.0	2.0	0.000	0.004	0.000	0.013	0.0	2.0
Milk	0.000	0.011	0.000	0.028	0.0	4.8	0.000	0.011	0.000	0.028	0.0	4.9
Ultra-fresh dairy products	0.000	0.005	0.000	0.013	0.0	2.3	0.000	0.005	0.000	0.013	0.0	2.3
Cheese	0.000	0.001	0.000	0.002	0.0	0.4	0.000	0.001	0.000	0.002	0.0	0.4
Eggs and egg products	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000	0.000	0.002	0.0	0.2
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Meat	0.000	0.001	0.000	0.003	0.0	0.7	0.000	0.002	0.000	0.006	0.0	1.1
Poultry and game	0.000	0.001	0.000	0.002	0.0	0.3	0.000	0.001	0.000	0.004	0.0	0.5
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.001	0.000	0.002	0.2	0.4	0.000	0.002	0.000	0.004	0.0	0.7
Fish	0.000	0.001	0.000	0.002	0.0	0.3	0.000	0.001	0.000	0.002	0.0	0.3
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.055	0.001	0.149	1.9	25.1	0.000	0.053	0.000	0.149	0.1	24.6
Potatoes and potato products	0.000	0.012	0.000	0.027	0.0	5.5	0.000	0.012	0.000	0.027	0.0	5.5
Pulses	0.000	0.001	0.000	0.012	0.0	0.4	0.000	0.001	0.001	0.012	0.3	0.4
Fruits	0.013	0.028	0.050	0.074	97.9	12.7	0.000	0.011	0.000	0.029	3.1	4.9
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.1	0.000	0.000	0.000	0.007	0.0	0.1
Chocolate	0.000	0.001	0.000	0.004	0.0	0.3	0.000	0.001	0.000	0.004	0.0	0.3
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.3
Water	0.000	0.013	0.000	0.076	0.0	6.1	0.000	0.013	0.000	0.076	0.0	6.2
Soft drinks	0.000	0.033	0.000	0.085	0.0	15.1	0.000	0.033	0.000	0.085	0.0	15.2
Alcoholic beverages	0.000	0.000	0.000	0.008	0.0	0.0	0.000	0.000	0.000	0.008	0.0	0.0
Coffee	0.000	0.000	0.000	0.010	0.0	0.1	0.000	0.000	0.000	0.010	0.0	0.1
Other hot beverages	0.000	0.005	0.000	0.033	0.0	2.1	0.000	0.005	0.000	0.033	0.0	2.1
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.013	0.0	1.0	0.000	0.002	0.000	0.013	0.0	1.0
Sandwiches and snacks	0.000	0.001	0.000	0.015	0.0	0.6	0.001	0.002	0.016	0.027	9.1	0.9
Soups and broths	0.000	0.008	0.000	0.050	0.0	3.7	0.000	0.008	0.000	0.050	0.0	3.7
Mixed dishes	0.000	0.007	0.000	0.030	0.0	3.2	0.000	0.007	0.004	0.030	5.5	3.3
Dairy-based desserts	0.000	0.002	0.000	0.008	0.0	0.8	0.000	0.002	0.000	0.008	0.0	0.8
Compotes and cooked fruit	0.000	0.004	0.000	0.018	0.0	1.9	0.000	0.004	0.000	0.018	0.0	1.9
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.3
TOTAL	**0.013**	**0.217**	**0.044**	**0.397**	**100.0**	**100.0**	**0.009**	**0.217**	**0.025**	**0.392**	**100.0**	**100.0**

Food group	Diazinon mean (LB)	Diazinon mean (UB)	Diazinon P95 (LB)	Diazinon P95 (UB)	Diazinon contrib (LB)	Diazinon contrib (UB)	Dichlorvos mean (LB)	Dichlorvos mean (UB)	Dichlorvos P95 (LB)	Dichlorvos P95 (UB)	Dichlorvos contrib (LB)	Dichlorvos contrib (UB)
Bread and dried bread products	0.000	0.011	0.000	0.031	0.0	4.7	0.000	0.008	0.000	0.022	0.0	1.7
Breakfast cereals	0.000	0.004	0.000	0.020	0.0	1.7	0.000	0.003	0.000	0.014	0.0	0.6
Pasta	0.000	0.012	0.000	0.033	0.0	5.0	0.000	0.009	0.000	0.024	0.0	1.8
Rice and wheat products	0.000	0.008	0.000	0.025	0.0	3.2	0.000	0.006	0.000	0.018	0.0	1.1
Croissant-like pastries	0.000	0.005	0.000	0.018	0.0	2.1	0.000	0.004	0.000	0.013	0.0	0.8
Sweet and savoury biscuits and bars	0.000	0.006	0.000	0.018	0.0	2.4	0.000	0.006	0.000	0.021	0.0	1.2
Pastries and cakes	0.000	0.010	0.000	0.031	0.0	4.2	0.000	0.007	0.000	0.022	0.0	1.5
Milk	0.000	0.018	0.000	0.047	0.0	7.3	0.000	0.018	0.000	0.047	0.0	3.6
Ultra-fresh dairy products	0.000	0.011	0.000	0.026	0.0	4.4	0.000	0.001	0.000	0.010	0.0	0.2
Cheese	0.000	0.003	0.000	0.008	0.0	1.1	.	.	.	.	.	.
Eggs and egg products	0.000	0.002	0.000	0.007	0.0	0.7	.	.	.	.	.	.
Butter	0.000	0.001	0.000	0.004	0.0	0.6	.	.	.	.	.	.
Meat	0.000	0.005	0.000	0.011	0.0	2.0	.	.	.	.	.	.
Poultry and game	0.000	0.002	0.000	0.008	0.0	1.0	.	.	.	.	.	.
Offal	0.000	0.000	0.000	0.002	0.0	0.0	.	.	.	.	.	.
Delicatessen meats	0.000	0.003	0.000	0.008	100.0	1.3	.	.	.	.	.	.
Fish	0.000	0.001	0.000	0.003	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.027	0.000	0.075	0.0	11.2	0.000	0.110	0.000	0.325	0.0	22.6
Potatoes and potato products	0.000	0.015	0.000	0.042	0.0	6.2	0.000	0.052	0.000	0.125	0.0	10.6
Pulses	0.000	0.001	0.000	0.012	0.0	0.4	0.000	0.005	0.000	0.071	0.0	0.9
Fruits	0.000	0.010	0.000	0.028	0.0	4.3	0.000	0.033	0.001	0.083	100.0	6.9
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.016	0.0	0.1	0.000	0.000	0.000	0.011	0.0	0.0
Chocolate	0.000	0.001	0.000	0.004	0.0	0.3	0.000	0.002	0.000	0.008	0.0	0.3
Sugars and sugar derivatives	0.000	0.001	0.000	0.009	0.0	0.6	0.000	0.001	0.000	0.009	0.0	0.2
Water	0.000	0.013	0.000	0.076	0.0	5.6	0.000	0.025	0.000	0.151	0.0	5.2
Soft drinks	0.000	0.033	0.000	0.085	0.0	14.0	0.000	0.066	0.000	0.169	0.0	13.6
Alcoholic beverages	0.000	0.000	0.000	0.008	0.0	0.0	0.000	0.000	0.000	0.015	0.0	0.0
Coffee	0.000	0.000	0.000	0.010	0.0	0.0	0.000	0.000	0.000	0.020	0.0	0.0
Other hot beverages	0.000	0.005	0.000	0.033	0.0	1.9	0.000	0.009	0.000	0.066	0.0	1.9
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.013	0.0	0.9	0.000	0.013	0.000	0.081	0.0	2.6
Sandwiches and snacks	0.000	0.001	0.000	0.015	0.0	0.6	0.000	0.008	0.000	0.090	0.0	1.7
Soups and broths	0.000	0.008	0.000	0.050	0.0	3.3	0.000	0.048	0.000	0.303	0.0	9.8
Mixed dishes	0.000	0.007	0.000	0.030	0.0	2.9	0.000	0.040	0.000	0.180	0.0	8.2
Dairy-based desserts	0.000	0.003	0.000	0.012	0.0	1.3	0.000	0.003	0.000	0.013	0.0	0.6
Compotes and cooked fruit	0.000	0.010	0.000	0.042	0.0	4.0	0.000	0.007	0.000	0.030	0.0	1.4
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.3	0.000	0.003	0.000	0.029	0.0	0.6
TOTAL	**0.000**	**0.240**	**0.000**	**0.391**	**100.0**	**100.0**	**0.000**	**0.485**	**0.001**	**0.853**	**100.0**	**100.0**

Food group	Dimethoate mean (LB)	Dimethoate mean (UB)	Dimethoate P95 (LB)	Dimethoate P95 (UB)	Dimethoate contrib (LB)	Dimethoate contrib (UB)	Disulfoton mean (UB)	Disulfoton P95 (UB)	Disulfoton contrib (UB)	Ethion mean (LB)	Ethion mean (UB)	Ethion P95 (LB)	Ethion P95 (UB)
Bread and dried bread products	0.000	0.056	0.000	0.153	0.0	3.2	.	.	.	0.000	0.008	0.000	0.022
Breakfast cereals	0.000	0.020	0.000	0.100	0.0	1.2	.	.	.	0.000	0.003	0.000	0.014
Pasta	0.000	0.060	0.000	0.167	0.0	3.4	.	.	.	0.000	0.009	0.000	0.024
Rice and wheat products	0.000	0.039	0.000	0.124	0.0	2.2	.	.	.	0.000	0.006	0.000	0.018
Croissant-like pastries	0.000	0.026	0.000	0.090	0.0	1.5	.	.	.	0.000	0.004	0.000	0.013
Sweet and savoury biscuits and bars	0.000	0.031	0.000	0.099	0.0	1.8	.	.	.	0.000	0.004	0.000	0.013
Pastries and cakes	0.000	0.050	0.000	0.157	0.0	2.9	.	.	.	0.000	0.007	0.000	0.022
Milk	0.000	0.070	0.000	0.189	0.0	4.1	.	.	.	0.000	0.018	0.000	0.047
Ultra-fresh dairy products	0.000	0.033	0.000	0.084	0.0	1.9	0.051	0.141	21.8	0.000	0.008	0.000	0.021
Cheese	0.000	0.005	0.000	0.016	0.0	0.3	.	.	.	0.000	0.001	0.000	0.004
Eggs and egg products	0.000	0.003	0.000	0.015	0.0	0.2	.	.	.	0.000	0.001	0.000	0.004
Butter	0.000	0.003	0.000	0.008	0.0	0.2	.	.	.	0.000	0.001	0.000	0.002
Meat	0.000	0.009	0.000	0.023	0.0	0.5	.	.	.	0.000	0.002	0.000	0.006
Poultry and game	0.000	0.005	0.000	0.016	0.0	0.3	.	.	.	0.000	0.001	0.000	0.004
Offal	0.000	0.000	0.000	0.004	0.0	0.0	.	.	.	0.000	0.000	0.000	0.001
Delicatessen meats	0.000	0.006	0.000	0.016	0.0	0.4	.	.	.	0.000	0.002	0.000	0.004
Fish	0.000	0.004	0.000	0.013	0.0	0.2	.	.	.	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.000	0.000	0.003	0.0	0.0	.	.	.	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.000	0.175	0.000	0.494	0.4	10.1	0.040	0.127	17.3	0.000	0.015	0.000	0.039
Potatoes and potato products	0.000	0.114	0.000	0.447	0.0	6.6	.	.	.	0.000	0.015	0.000	0.042
Pulses	0.000	0.005	0.000	0.055	0.0	0.3	.	.	.	0.000	0.001	0.000	0.012
Fruits	0.032	0.147	0.297	0.468	99.6	8.5	0.033	0.083	14.3	0.000	0.010	0.000	0.028
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.015	0.0	0.1	.	.	.	0.000	0.000	0.000	0.002
Ice creams, sorbets and frozen desserts	0.000	0.002	0.000	0.079	0.0	0.1	.	.	.	0.000	0.000	0.000	0.011
Chocolate	0.000	0.010	0.000	0.057	0.0	0.6	0.002	0.008	0.6	0.000	0.001	0.000	0.004
Sugars and sugar derivatives	0.000	0.008	0.000	0.061	0.0	0.5	0.000	0.006	0.1	0.000	0.001	0.000	0.007
Water	0.000	0.171	0.000	1.052	0.0	9.9	0.025	0.151	10.9	0.000	0.013	0.000	0.076
Soft drinks	0.000	0.460	0.000	1.185	0.0	26.6	0.065	0.169	28.1	0.000	0.033	0.000	0.085
Alcoholic beverages	0.000	0.001	0.000	0.105	0.0	0.0	0.000	0.015	0.0	0.000	0.000	0.000	0.008
Coffee	0.000	0.002	0.000	0.142	0.0	0.1	0.000	0.020	0.1	0.000	0.000	0.000	0.010
Other hot beverages	0.000	0.065	0.000	0.459	0.0	3.8	0.009	0.066	4.0	0.000	0.005	0.000	0.033
Pizzas, quiches and savoury pastries	0.000	0.010	0.000	0.062	0.0	0.6	0.002	0.025	0.7	0.000	0.002	0.000	0.014
Sandwiches and snacks	0.000	0.006	0.000	0.069	0.0	0.4	.	.	.	0.000	0.001	0.000	0.015
Soups and broths	0.000	0.037	0.000	0.232	0.0	2.1	.	.	.	0.002	0.010	0.027	0.080
Mixed dishes	0.000	0.035	0.000	0.148	0.0	2.0	0.004	0.033	1.9	0.000	0.007	0.000	0.030
Dairy-based desserts	0.000	0.012	0.000	0.046	0.0	0.7	.	.	.	0.000	0.003	0.000	0.012
Compotes and cooked fruit	0.000	0.048	0.000	0.210	0.0	2.8	.	.	.	0.000	0.007	0.000	0.030
Seasonings and sauces	0.000	0.003	0.000	0.022	0.0	0.2	.	.	.	0.000	0.001	0.000	0.005
TOTAL	**0.032**	**1.730**	**0.264**	**3.197**	**100.0**	**100.0**	**0.231**	**0.480**	**100.0**	**0.003**	**0.201**	**0.006**	**0.325**

Food group	Ethion contrib (LB)	Ethion contrib (UB)	Fenitrothion mean (LB)	Fenitrothion mean (UB)	Fenitrothion P95 (UB)	Fenitrothion contrib (LB)	Fenitrothion contrib (UB)	Fenthion mean (UB)	Fenthion P95 (UB)	Fenthion contrib (UB)	Malathion mean (LB)	Malathion mean (UB)	Malathion P95 (LB)	Malathion P95 (UB)
Bread and dried bread products	0.0	4.0	0.000	0.008	0.022	0.0	3.5	0.008	0.022	1.8	0.000	0.005	0.000	0.013
Breakfast cereals	0.0	1.4	0.000	0.003	0.014	0.0	1.2	0.003	0.014	0.7	0.000	0.002	0.000	0.009
Pasta	0.0	4.2	0.000	0.009	0.024	0.0	3.7	0.009	0.024	1.9	0.000	0.005	0.000	0.014
Rice and wheat products	0.0	2.7	0.000	0.006	0.018	0.0	2.4	0.006	0.018	1.3	0.000	0.003	0.000	0.011
Croissant-like pastries	0.0	1.8	0.000	0.004	0.013	0.0	1.6	0.004	0.013	0.8	0.000	0.002	0.000	0.008
Sweet and savoury biscuits and bars	0.0	2.1	0.000	0.004	0.013	0.0	1.8	0.004	0.014	1.0	0.000	0.003	0.000	0.008
Pastries and cakes	0.0	3.5	0.000	0.007	0.022	0.0	3.1	0.007	0.022	1.6	0.000	0.004	0.000	0.013
Milk	0.0	8.7	0.000	0.011	0.028	0.0	4.5	0.053	0.141	12.0	0.000	0.018	0.000	0.047
Ultra-fresh dairy products	0.0	4.2	0.000	0.006	0.015	0.0	2.5	0.037	0.091	8.5	0.000	0.011	0.000	0.026
Cheese	0.0	0.6	0.000	0.001	0.004	0.0	0.5	0.005	0.016	1.2	0.000	0.003	0.000	0.008
Eggs and egg products	0.0	0.4	0.000	0.002	0.007	0.0	0.7	0.005	0.022	1.1	0.000	0.002	0.000	0.007
Butter	0.0	0.4	0.000	0.001	0.002	0.0	0.3	0.003	0.008	0.7	0.000	0.001	0.000	0.004
Meat	0.0	1.2	0.000	0.002	0.006	0.0	1.0	0.012	0.028	2.7	0.000	0.005	0.000	0.011
Poultry and game	0.0	0.6	0.000	0.001	0.004	0.0	0.5	0.006	0.020	1.4	0.000	0.002	0.000	0.008
Offal	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.006	0.0	0.000	0.000	0.000	0.002
Delicatessen meats	1.6	0.8	0.000	0.002	0.004	0.0	0.7	0.008	0.021	1.7	0.000	0.003	0.000	0.008
Fish	0.0	0.5	0.000	0.001	0.002	0.0	0.2	0.003	0.010	0.6	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.0	7.5	0.000	0.055	0.155	100.0	23.8	0.045	0.127	10.3	0.000	0.034	0.000	0.101
Potatoes and potato products	0.0	7.4	0.000	0.012	0.027	0.0	5.1	0.024	0.090	5.4	0.000	0.021	0.000	0.051
Pulses	0.0	0.4	0.000	0.001	0.012	0.0	0.4	0.001	0.012	0.2	0.000	0.002	0.000	0.024
Fruits	1.4	5.2	0.000	0.017	0.041	0.0	7.3	0.050	0.124	11.4	0.000	0.027	0.000	0.066
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.000	0.002	0.0	0.1	0.000	0.002	0.0	0.000	0.000	0.000	0.001
Ice creams, sorbets and frozen desserts	0.0	0.1	0.000	0.000	0.011	0.0	0.1	0.000	0.011	0.0	0.000	0.000	0.000	0.007
Chocolate	0.0	0.4	0.000	0.001	0.004	0.0	0.3	0.002	0.008	0.3	0.000	0.002	0.000	0.008
Sugars and sugar derivatives	0.0	0.5	0.000	0.001	0.007	0.0	0.4	0.001	0.009	0.3	0.000	0.001	0.000	0.007
Water	0.0	6.7	0.000	0.013	0.076	0.0	5.8	0.025	0.151	5.7	0.000	0.025	0.000	0.151
Soft drinks	0.0	16.5	0.000	0.033	0.085	0.0	14.3	0.066	0.169	15.0	0.000	0.065	0.000	0.169
Alcoholic beverages	0.0	0.0	0.000	0.000	0.008	0.0	0.0	0.000	0.015	0.0	0.000	0.000	0.000	0.015
Coffee	0.0	0.1	0.000	0.000	0.010	0.0	0.1	0.000	0.020	0.1	0.000	0.000	0.000	0.020
Other hot beverages	0.0	2.3	0.000	0.005	0.033	0.0	2.0	0.009	0.066	2.1	0.000	0.009	0.000	0.066
Pizzas, quiches and savoury pastries	0.0	1.1	0.000	0.002	0.013	0.0	0.9	0.003	0.018	0.7	0.000	0.004	0.000	0.026
Sandwiches and snacks	0.0	0.7	0.000	0.001	0.015	0.0	0.6	0.001	0.015	0.3	0.000	0.003	0.000	0.030
Soups and broths	97.1	5.1	0.000	0.008	0.050	0.0	3.4	0.008	0.050	1.8	0.000	0.016	0.000	0.101
Mixed dishes	0.0	3.5	0.000	0.007	0.030	0.0	3.0	0.009	0.030	2.0	0.000	0.013	0.001	0.059
Dairy-based desserts	0.0	1.4	0.000	0.002	0.008	0.0	0.9	0.014	0.054	3.3	0.000	0.003	0.000	0.013
Compotes and cooked fruit	0.0	3.4	0.000	0.007	0.030	0.0	3.0	0.007	0.030	1.6	0.000	0.004	0.000	0.018
Seasonings and sauces	0.0	0.3	0.000	0.001	0.005	0.0	0.3	0.001	0.005	0.2	0.000	0.001	0.000	0.009
TOTAL	**100.0**	**100.0**	**0.000**	**0.232**	**0.415**	**100.0**	**100.0**	**0.438**	**0.736**	**100.0**	**0.000**	**0.301**	**0.001**	**0.537**

Food group	Malathion contrib (LB)	Malathion contrib (UB)	Methidathion mean (UB)	Methidathion P95 (UB)	Methidathion contrib (UB)	Mevinphos mean (UB)	Mevinphos P95 (UB)	Mevinphos contrib (UB)	Monocrotophos mean (UB)	Monocrotophos P95 (UB)	Monocrotophos contrib (UB)	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)
Bread and dried bread products	0.0	1.6	0.008	0.022	2.1	0.008	0.022	2.9	0.008	0.022	1.9	.	.	.
Breakfast cereals	0.0	0.6	0.003	0.014	0.8	0.003	0.014	1.0	0.003	0.014	0.7	.	.	.
Pasta	0.0	1.7	0.009	0.024	2.2	0.009	0.024	3.0	0.009	0.024	2.0	.	.	.
Rice and wheat products	0.0	1.1	0.006	0.018	1.4	0.006	0.018	2.0	0.006	0.018	1.3	.	.	.
Croissant-like pastries	0.0	0.7	0.004	0.013	1.0	0.004	0.013	1.3	0.004	0.013	0.9	.	.	.
Sweet and savoury biscuits and bars	0.0	0.9	0.005	0.015	1.2	0.004	0.013	1.5	0.004	0.013	1.0	.	.	.
Pastries and cakes	0.0	1.4	0.007	0.022	1.9	0.007	0.022	2.5	0.007	0.022	1.7	.	.	.
Milk	0.0	5.8	0.018	0.047	4.6	0.018	0.047	6.3	0.018	0.047	4.1	.	.	.
Ultra-fresh dairy products	0.0	3.5	0.011	0.026	2.7	0.008	0.021	3.0	0.008	0.021	2.0	.	.	.
Cheese	0.0	0.8	0.003	0.008	0.7	0.001	0.004	0.5	0.001	0.004	0.3	.	.	.
Eggs and egg products	0.0	0.5	0.002	0.007	0.4	0.001	0.004	0.3	0.001	0.004	0.2	.	.	.
Butter	0.0	0.5	0.001	0.004	0.4	0.001	0.002	0.3	0.001	0.002	0.2	.	.	.
Meat	0.0	1.6	0.005	0.011	1.2	0.002	0.006	0.8	0.002	0.006	0.5	.	.	.
Poultry and game	0.0	0.8	0.002	0.008	0.6	0.001	0.004	0.4	0.001	0.004	0.3	.	.	.
Offal	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.0	0.000	0.001	0.0	.	.	.
Delicatessen meats	0.0	1.0	0.003	0.008	0.8	0.002	0.004	0.5	0.002	0.004	0.4	.	.	.
Fish	0.0	0.3	0.001	0.003	0.2	0.001	0.003	0.3	0.001	0.003	0.2	.	.	.
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.001	0.0	.	.	.
Vegetables (excluding potatoes)	0.0	11.5	0.029	0.086	7.5	0.045	0.127	16.1	0.046	0.133	10.8	0.040	0.127	95.0
Potatoes and potato products	0.0	7.1	0.043	0.102	11.2	0.010	0.026	3.7	0.018	0.041	4.2	.	.	.
Pulses	0.0	0.5	0.004	0.060	1.0	0.001	0.012	0.3	0.002	0.024	0.4	.	.	.
Fruits	0.0	8.9	0.017	0.041	4.4	0.017	0.041	6.0	0.033	0.083	7.9	.	.	.
Dried fruits, nuts and seeds	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.1	0.000	0.002	0.0	.	.	.
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.011	0.1	0.000	0.011	0.1	0.000	0.011	0.1	.	.	.
Chocolate	0.0	0.5	0.002	0.008	0.4	0.002	0.008	0.5	0.003	0.016	0.7	.	.	.
Sugars and sugar derivatives	0.0	0.3	0.001	0.009	0.3	0.001	0.009	0.4	0.001	0.012	0.3	.	.	.
Water	0.0	8.4	0.025	0.151	6.5	0.025	0.151	9.0	0.049	0.301	11.5	0.002	0.004	3.7
Soft drinks	0.0	21.8	0.066	0.169	17.1	0.066	0.169	23.5	0.131	0.339	30.8	.	.	.
Alcoholic beverages	0.0	0.0	0.000	0.015	0.0	0.000	0.015	0.0	0.000	0.030	0.0	.	.	.
Coffee	0.0	0.1	0.000	0.020	0.1	0.000	0.020	0.1	0.000	0.041	0.1	.	.	.
Other hot beverages	0.0	3.1	0.009	0.066	2.4	0.009	0.066	3.3	0.019	0.131	4.4	.	.	.
Pizzas, quiches and savoury pastries	0.0	1.4	0.011	0.064	2.8	0.002	0.014	0.8	0.004	0.026	1.0	.	.	.
Sandwiches and snacks	0.0	0.9	0.007	0.075	1.8	0.001	0.015	0.5	0.003	0.030	0.6	.	.	.
Soups and broths	0.0	5.3	0.040	0.252	10.3	0.008	0.050	2.8	0.016	0.101	3.7	.	.	.
Mixed dishes	100.0	4.5	0.033	0.148	8.6	0.007	0.030	2.5	0.014	0.059	3.2	.	.	.
Dairy-based desserts	0.0	1.1	0.003	0.013	0.9	0.003	0.012	1.0	0.003	0.013	0.7	.	.	.
Compotes and cooked fruit	0.0	1.4	0.007	0.030	1.8	0.007	0.030	2.5	0.007	0.030	1.6	.	.	.
Seasonings and sauces	0.0	0.4	0.003	0.023	0.7	0.001	0.005	0.2	0.001	0.009	0.3	.	.	.
TOTAL	**100.0**	**100.0**	**0.385**	**0.707**	**100.0**	**0.280**	**0.517**	**100.0**	**0.425**	**0.812**	**100.0**	**0.042**	**0.111**	**100.0**

Food group	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion mean (UB)	Parathion P95 (UB)	Parathion contrib (UB)	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)	Phosalone mean (LB)	Phosalone mean (UB)	Phosalone P95 (LB)	Phosalone P95 (UB)	Phosalone contrib (LB)	Phosalone contrib (UB)
Bread and dried bread products	.	.	.	0.032	0.087	4.8	0.160	0.437	10.6	0.000	0.005	0.000	0.013	0.0	1.4
Breakfast cereals	.	.	.	0.012	0.057	1.7	0.058	0.286	3.8	0.000	0.002	0.000	0.009	0.0	0.5
Pasta	.	.	.	0.034	0.095	5.1	0.170	0.476	11.2	0.000	0.005	0.000	0.014	0.0	1.5
Rice and wheat products	.	.	.	0.022	0.071	3.3	0.110	0.353	7.3	0.000	0.003	0.000	0.011	0.0	1.0
Croissant-like pastries	.	.	.	0.015	0.051	2.2	0.074	0.257	4.9	0.000	0.002	0.000	0.008	0.0	0.7
Sweet and savoury biscuits and bars	0.000	0.006	0.3	0.016	0.050	2.5	0.079	0.244	5.2	0.000	0.003	0.000	0.009	0.0	0.8
Pastries and cakes	.	.	.	0.028	0.089	4.3	0.142	0.447	9.4	0.000	0.004	0.000	0.013	0.0	1.3
Milk	0.039	0.103	26.8	0.029	0.078	4.4	0.051	0.136	3.4	0.000	0.018	0.000	0.047	0.0	5.3
Ultra-fresh dairy products	0.018	0.046	12.7	0.043	0.120	6.5	0.041	0.103	2.7	0.000	0.011	0.000	0.026	0.0	3.2
Cheese	0.003	0.009	1.9	0.016	0.050	2.4	0.013	0.042	0.9	0.000	0.003	0.000	0.008	0.0	0.8
Eggs and egg products	0.002	0.008	1.2	0.010	0.046	1.5	0.010	0.045	0.6	0.000	0.002	0.000	0.007	0.0	0.5
Butter	0.002	0.004	1.1	0.009	0.025	1.4	0.008	0.021	0.5	0.000	0.001	0.000	0.004	0.0	0.4
Meat	0.005	0.012	3.4	0.030	0.071	4.5	0.030	0.071	2.0	0.000	0.005	0.000	0.011	0.0	1.4
Poultry and game	0.003	0.009	1.8	0.015	0.051	2.2	0.015	0.051	1.0	0.000	0.002	0.000	0.008	0.0	0.7
Offal	0.000	0.002	0.0	0.000	0.014	0.0	0.000	0.014	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.003	0.009	2.3	0.019	0.052	2.9	0.019	0.051	1.3	0.000	0.003	0.000	0.008	0.3	0.9
Fish	0.002	0.007	1.4	0.002	0.005	0.2	0.003	0.010	0.2	0.000	0.001	0.000	0.003	0.0	0.3
Crustaceans and molluscs	0.000	0.002	0.1	0.000	0.001	0.0	0.000	0.002	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.002	0.023	1.3	0.101	0.288	15.2	0.102	0.263	6.7	0.000	0.054	0.000	0.155	0.0	16.4
Potatoes and potato products	0.018	0.041	12.4	0.024	0.055	3.6	.	.	.	0.000	0.022	0.000	0.052	0.0	6.7
Pulses	0.001	0.024	1.0	0.002	0.024	0.3	0.003	0.179	0.2	0.000	0.002	0.000	0.024	0.0	0.5
Fruits	.	.	.	0.018	0.050	2.7	0.039	0.121	2.5	0.006	0.037	0.041	0.091	99.7	11.1
Dried fruits, nuts and seeds	.	.	.	0.001	0.008	0.1	0.003	0.042	0.2	0.000	0.000	0.000	0.001	0.0	0.0
Ice creams, sorbets and frozen desserts	.	.	.	0.001	0.045	0.1	0.004	0.226	0.3	0.000	0.000	0.000	0.007	0.0	0.0
Chocolate	.	.	.	0.002	0.008	0.2	0.003	0.016	0.2	0.000	0.002	0.000	0.008	0.0	0.5
Sugars and sugar derivatives	.	.	.	0.004	0.027	0.6	0.018	0.135	1.2	0.000	0.001	0.000	0.007	0.0	0.2
Water	0.002	0.004	1.1	0.025	0.151	3.8	0.049	0.301	3.2	0.000	0.025	0.000	0.151	0.0	7.6
Soft drinks	.	.	.	0.068	0.169	10.2	0.143	0.375	9.5	0.000	0.065	0.000	0.169	0.0	19.7
Alcoholic beverages	.	.	.	0.000	0.015	0.0	0.000	0.030	0.0	0.000	0.000	0.000	0.015	0.0	0.0
Coffee	.	.	.	0.000	0.020	0.0	0.000	0.041	0.0	0.000	0.000	0.000	0.020	0.0	0.1
Other hot beverages	.	.	.	0.009	0.066	1.4	0.019	0.131	1.2	0.000	0.009	0.000	0.066	0.0	2.8
Pizzas, quiches and savoury pastries	0.005	0.027	3.2	0.005	0.027	0.7	0.000	0.007	0.0	0.000	0.004	0.000	0.026	0.0	1.3
Sandwiches and snacks	0.003	0.030	1.9	0.003	0.030	0.4	.	.	.	0.000	0.003	0.000	0.030	0.0	0.8
Soups and broths	0.016	0.101	11.1	0.016	0.101	2.4	.	.	.	0.000	0.016	0.000	0.101	0.0	4.8
Mixed dishes	0.014	0.059	9.8	0.014	0.060	2.2	0.001	0.010	0.1	0.000	0.013	0.000	0.059	0.0	4.0
Dairy-based desserts	0.006	0.025	4.4	0.010	0.046	1.5	0.010	0.046	0.7	0.000	0.003	0.000	0.013	0.0	1.0
Compotes and cooked fruit	.	.	.	0.028	0.120	4.2	0.138	0.599	9.1	0.000	0.004	0.000	0.018	0.0	1.2
Seasonings and sauces	0.001	0.009	0.8	0.002	0.011	0.3	0.001	0.008	0.1	0.000	0.001	0.000	0.009	0.0	0.4
TOTAL	**0.144**	**0.259**	**100.0**	**0.663**	**1.080**	**100.0**	**1.516**	**2.436**	**100.0**	**0.006**	**0.332**	**0.040**	**0.593**	**100.0**	**100.0**

Food group	Phosmet mean (LB)	Phosmet mean (UB)	Phosmet P95 (LB)	Phosmet P95 (UB)	Phosmet contrib (LB)	Phosmet contrib (UB)	Phosphamidon mean (UB)	Phosphamidon P95 (UB)	Phosphamidon contrib (UB)	Pyrimiphos methyl mean (LB)	Pyrimiphos methyl mean (UB)	Pyrimiphos methyl P95 (LB)	Pyrimiphos methyl P95 (UB)
Bread and dried bread products	0.000	0.008	0.000	0.022	0.0	2.4	0.011	0.031	3.9	0.044	0.044	0.126	0.126
Breakfast cereals	0.000	0.003	0.000	0.014	0.0	0.9	0.004	0.020	1.4	0.003	0.010	0.017	0.061
Pasta	0.000	0.009	0.000	0.024	0.0	2.5	0.012	0.033	4.1	0.017	0.035	0.048	0.098
Rice and wheat products	0.000	0.006	0.000	0.018	0.0	1.6	0.008	0.025	2.7	0.016	0.019	0.051	0.060
Croissant-like pastries	0.000	0.004	0.000	0.013	0.0	1.1	0.005	0.018	1.8	0.020	0.024	0.083	0.093
Sweet and savoury biscuits and bars	0.000	0.004	0.000	0.013	0.0	1.2	0.006	0.017	1.9	0.024	0.032	0.080	0.108
Pastries and cakes	0.000	0.007	0.000	0.022	0.0	2.1	0.010	0.031	3.5	0.013	0.024	0.044	0.075
Milk	0.000	0.035	0.000	0.094	0.0	10.4	0.018	0.047	6.1	0.000	0.035	0.000	0.094
Ultra-fresh dairy products	0.000	0.021	0.000	0.052	0.0	6.2	0.008	0.021	2.9	0.002	0.016	0.012	0.037
Cheese	0.000	0.005	0.000	0.016	0.0	1.5	0.001	0.004	0.4	0.000	0.001	0.000	0.004
Eggs and egg products	0.000	0.003	0.000	0.015	0.0	0.9	0.001	0.004	0.3	0.000	0.002	0.000	0.007
Butter	0.000	0.003	0.000	0.008	0.0	0.9	0.001	0.002	0.3	0.000	0.001	0.000	0.002
Meat	0.000	0.010	0.000	0.023	0.0	2.8	0.002	0.006	0.8	0.000	0.005	0.000	0.011
Poultry and game	0.000	0.005	0.000	0.016	0.0	1.4	0.001	0.004	0.4	0.000	0.002	0.000	0.008
Offal	0.000	0.000	0.000	0.004	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002
Delicatessen meats	0.000	0.006	0.000	0.016	0.0	1.8	0.002	0.004	0.5	0.000	0.003	0.000	0.008
Fish	0.000	0.002	0.000	0.007	0.0	0.6	0.001	0.003	0.3	0.000	0.002	0.000	0.007
Crustaceans and molluscs	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002
Vegetables (excluding potatoes)	0.000	0.016	0.000	0.041	0.0	4.8	0.046	0.127	15.9	0.000	0.053	0.000	0.149
Potatoes and potato products	0.000	0.015	0.000	0.042	0.0	4.4	.	.	.	0.000	0.015	0.000	0.042
Pulses	0.000	0.002	0.000	0.024	0.0	0.5	0.000	0.013	0.1	0.000	0.001	0.005	0.013
Fruits	0.004	0.035	0.016	0.083	100.0	10.2	0.033	0.083	11.7	0.000	0.010	0.000	0.025
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.003	0.1	0.000	0.000	0.000	0.001
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.011	0.0	0.1	0.000	0.016	0.1	0.000	0.000	0.000	0.007
Chocolate	0.000	0.002	0.000	0.008	0.0	0.4	0.002	0.008	0.5	0.000	0.001	0.000	0.004
Sugars and sugar derivatives	0.000	0.001	0.000	0.009	0.0	0.3	0.001	0.011	0.5	0.000	0.001	0.000	0.005
Water	0.000	0.025	0.000	0.151	0.0	7.4	0.025	0.151	8.8	0.000	0.013	0.000	0.076
Soft drinks	0.000	0.066	0.000	0.169	0.0	19.4	0.066	0.169	23.0	0.000	0.033	0.000	0.085
Alcoholic beverages	0.000	0.000	0.000	0.015	0.0	0.0	0.000	0.015	0.0	0.000	0.000	0.000	0.008
Coffee	0.000	0.000	0.000	0.020	0.0	0.1	0.000	0.020	0.1	0.000	0.000	0.000	0.010
Other hot beverages	0.000	0.009	0.000	0.066	0.0	2.7	0.009	0.066	3.2	0.000	0.005	0.000	0.033
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.014	0.0	0.7	0.000	0.003	0.1	0.004	0.006	0.026	0.034
Sandwiches and snacks	0.000	0.001	0.000	0.015	0.0	0.4	.	.	.	0.004	0.004	0.067	0.069
Soups and broths	0.000	0.013	0.000	0.095	0.0	3.9	.	.	.	0.000	0.008	0.007	0.054
Mixed dishes	0.000	0.008	0.000	0.030	0.0	2.3	0.000	0.003	0.2	0.009	0.014	0.042	0.053
Dairy-based desserts	0.000	0.006	0.000	0.024	0.0	1.8	0.003	0.011	1.0	0.001	0.006	0.000	0.026
Compotes and cooked fruit	0.000	0.007	0.000	0.030	0.0	2.0	0.010	0.042	3.4	0.000	0.004	0.000	0.018
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.2	0.000	0.001	0.0	0.000	0.001	0.000	0.005
TOTAL	**0.004**	**0.339**	**0.016**	**0.570**	**100.0**	**100.0**	**0.287**	**0.519**	**100.0**	**0.156**	**0.429**	**0.282**	**0.664**

Food group	Pyrimiphos methyl contrib (LB)	Pyrimiphos methyl contrib (UB)	Quinalphos mean (UB)	Quinalphos P95 (UB)	Quinalphos contrib (UB)	Sulfotep mean (UB)	Sulfotep P95 (UB)	Sulfotep contrib (UB)	Thiometon mean (UB)	Thiometon P95 (UB)	Thiometon contrib (UB)
Bread and dried bread products	28.0	10.3	0.011	0.031	2.4	.	.	.	.	.	.
Breakfast cereals	1.8	2.4	0.004	0.020	0.9	.	.	.	.	.	.
Pasta	11.1	8.2	0.012	0.033	2.6	.	.	.	.	.	.
Rice and wheat products	10.4	4.4	0.008	0.025	1.7	.	.	.	.	.	.
Croissant-like pastries	13.1	5.5	0.005	0.018	1.1	.	.	.	.	.	.
Sweet and savoury biscuits and bars	15.1	7.4	0.006	0.020	1.4	.	.	.	.	.	.
Pastries and cakes	8.3	5.5	0.010	0.031	2.2	.	.	.	.	.	.
Milk	0.0	8.2	0.035	0.094	7.6	0.179	0.481	43.2	0.018	0.047	11.1
Ultra-fresh dairy products	1.1	3.6	0.021	0.052	4.6	0.085	0.214	20.5	0.006	0.017	3.9
Cheese	0.0	0.3	0.005	0.016	1.1	0.013	0.041	3.1	.	.	.
Eggs and egg products	0.0	0.4	0.003	0.015	0.7	0.004	0.018	0.9	0.001	0.004	0.5
Butter	0.0	0.2	0.003	0.008	0.6	0.007	0.021	1.8	.	.	.
Meat	0.0	1.1	0.005	0.011	1.0	0.012	0.028	2.9	0.002	0.006	1.4
Poultry and game	0.0	0.6	0.002	0.008	0.5	0.006	0.020	1.4	0.001	0.004	0.7
Offal	0.0	0.0	0.000	0.002	0.0	0.000	0.006	0.0	0.000	0.001	0.0
Delicatessen meats	0.0	0.7	0.003	0.008	0.7	0.008	0.021	1.8	0.002	0.004	1.0
Fish	0.0	0.4	0.002	0.007	0.4	0.005	0.016	1.1	0.001	0.003	0.6
Crustaceans and molluscs	0.0	0.0	0.000	0.002	0.0	0.000	0.004	0.1	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.0	12.4	0.050	0.142	10.8	0.040	0.127	9.7	0.040	0.127	25.2
Potatoes and potato products	0.0	3.4	0.042	0.105	9.1	.	.	.	.	.	.
Pulses	0.1	0.2	0.003	0.048	0.7	.	.	.	.	.	.
Fruits	0.0	2.4	0.033	0.083	7.3	0.033	0.083	8.0	0.033	0.083	20.9
Dried fruits, nuts and seeds	0.0	0.0	0.000	0.003	0.0	.	.	.	.	.	.
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.016	0.1	.	.	.	.	.	.
Chocolate	0.0	0.2	0.002	0.008	0.3	.	.	.	0.001	0.004	0.5
Sugars and sugar derivatives	0.0	0.2	0.001	0.011	0.3	.	.	.	0.000	0.003	0.1
Water	0.0	3.1	0.025	0.151	5.5	0.002	0.004	0.4	0.013	0.076	8.4
Soft drinks	0.0	7.7	0.066	0.169	14.4	.	.	.	0.033	0.085	20.5
Alcoholic beverages	0.0	0.0	0.000	0.015	0.0	.	.	.	0.000	0.008	0.0
Coffee	0.0	0.0	0.000	0.020	0.1	.	.	.	0.000	0.010	0.1
Other hot beverages	0.0	1.1	0.009	0.066	2.0	.	.	.	0.005	0.033	2.9
Pizzas, quiches and savoury pastries	2.7	1.3	0.009	0.053	1.9	0.002	0.026	0.4	0.000	0.003	0.1
Sandwiches and snacks	2.4	1.0	0.005	0.060	1.2	.	.	.	.	.	.
Soups and broths	0.2	1.9	0.032	0.202	6.9	.	.	.	.	.	.
Mixed dishes	5.5	3.2	0.027	0.118	5.9	0.005	0.034	1.1	0.000	0.003	0.3
Dairy-based desserts	0.3	1.4	0.006	0.026	1.4	0.014	0.054	3.4	0.003	0.011	1.8
Compotes and cooked fruit	0.0	1.0	0.010	0.042	2.1	.	.	.	.	.	.
Seasonings and sauces	0.0	0.2	0.002	0.019	0.5	0.000	0.003	0.1	0.000	0.001	0.0
TOTAL	**100.0**	**100.0**	**0.460**	**0.761**	**100.0**	**0.415**	**0.751**	**100.0**	**0.159**	**0.313**	**100.0**

Table G41: Estimated exposure (mean and P95) in children aged 3 to 6 years to persistent organic pollutants (µg/kg bw/day) and contribution of foods (%)

Food group	Chlordane mean (UB)	Chlordane P95 (UB)	Chlordane contrib (UB)	DDT mean (UB)	DDT P95 (UB)	DDT contrib (UB)	Dieldrin mean (UB)	Dieldrin P95 (UB)	Dieldrin contrib (UB)	Endrin mean (UB)	Endrin P95 (UB)	Endrin contrib (UB)
Bread and dried bread products	0.010	0.026	3.9	0.016	0.044	3.0	0.013	0.036	3.1	0.008	0.022	4.5
Breakfast cereals	0.003	0.017	1.4	0.006	0.029	1.1	0.005	0.023	1.1	0.003	0.014	1.6
Pasta	0.010	0.029	4.1	0.017	0.048	3.2	0.014	0.039	3.3	0.009	0.024	4.8
Rice and wheat products	0.007	0.021	2.7	0.011	0.035	2.1	0.009	0.029	2.1	0.006	0.018	3.1
Croissant-like pastries	0.004	0.015	1.8	0.007	0.026	1.4	0.006	0.021	1.4	0.004	0.013	2.1
Sweet and savoury biscuits and bars	0.005	0.015	1.9	0.008	0.024	1.5	0.007	0.021	1.6	0.004	0.012	2.2
Pastries and cakes	0.009	0.027	3.5	0.014	0.045	2.7	0.012	0.036	2.7	0.007	0.022	4.0
Milk	0.070	0.189	28.4	0.074	0.199	14.0	0.029	0.078	6.8	0.011	0.028	5.9
Ultra-fresh dairy products	0.029	0.067	11.7	0.032	0.077	5.9	0.015	0.036	3.4	0.005	0.013	2.8
Cheese	0.003	0.008	1.0	0.003	0.010	0.6	0.003	0.008	0.6	0.001	0.002	0.4
Eggs and egg products	0.002	0.007	0.6	0.003	0.015	0.6	0.002	0.007	0.4	0.000	0.002	0.3
Butter	0.001	0.004	0.6	0.002	0.005	0.3	0.001	0.004	0.3	0.000	0.001	0.2
Meat	0.005	0.011	1.9	0.006	0.014	1.1	0.005	0.012	1.1	0.001	0.003	0.8
Poultry and game	0.002	0.008	1.0	0.003	0.010	0.6	0.002	0.008	0.6	0.001	0.002	0.4
Offal	0.000	0.002	0.0	0.000	0.003	0.0	0.000	0.002	0.0	0.000	0.001	0.0
Delicatessen meats	0.003	0.008	1.2	0.004	0.010	0.7	0.003	0.008	0.7	0.001	0.002	0.5
Fish	0.004	0.013	1.5	0.004	0.014	0.7	0.002	0.005	0.4	0.001	0.002	0.3
Crustaceans and molluscs	0.000	0.003	0.1	0.000	0.004	0.1	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.045	0.125	18.2	0.133	0.364	25.1	0.030	0.078	6.9	0.044	0.122	24.9
Potatoes and potato products							0.028	0.065	6.5			
Pulses	0.000	0.011	0.1	0.000	0.018	0.1	0.002	0.029	0.5	0.000	0.009	0.1
Fruits	0.010	0.026	4.1	0.052	0.129	9.8	0.021	0.051	4.9	0.010	0.025	5.7
Dried fruits, nuts and seeds	0.000	0.003	0.1	0.000	0.004	0.1	0.000	0.003	0.1	0.000	0.002	0.1
Ice creams, sorbets and frozen desserts	0.000	0.014	0.1	0.000	0.023	0.1	0.000	0.018	0.1	0.000	0.011	0.1
Chocolate				0.002	0.008	0.3	0.002	0.012	0.5	0.001	0.004	0.4
Sugars and sugar derivatives	0.001	0.008	0.4	0.002	0.015	0.4	0.002	0.014	0.4	0.001	0.007	0.6
Water	0.002	0.004	0.6	0.025	0.151	4.8	0.036	0.228	8.6	0.013	0.076	7.5
Soft drinks	0.001	0.010	0.3	0.066	0.169	12.5	0.100	0.258	23.6	0.033	0.085	18.7
Alcoholic beverages				0.000	0.015	0.0	0.000	0.023	0.0	0.000	0.008	0.0
Coffee				0.000	0.020	0.0	0.000	0.031	0.1	0.000	0.010	0.1
Other hot beverages				0.009	0.066	1.8	0.014	0.100	3.3	0.005	0.033	2.6
Pizzas, quiches and savoury pastries	0.001	0.010	0.3	0.001	0.011	0.1	0.005	0.033	1.3	0.000	0.002	0.1
Sandwiches and snacks							0.003	0.037	0.8			
Soups and broths							0.019	0.123	4.6			
Mixed dishes	0.002	0.013	0.7	0.002	0.014	0.4	0.017	0.072	4.0	0.000	0.002	0.2
Dairy-based desserts	0.011	0.043	4.3	0.012	0.045	2.2	0.005	0.019	1.1	0.002	0.006	0.9
Compotes and cooked fruit	0.008	0.036	3.3	0.014	0.060	2.6	0.011	0.049	2.6	0.007	0.030	3.9
Seasonings and sauces	0.000	0.001	0.1	0.000	0.003	0.1	0.001	0.011	0.3	0.000	0.000	0.0
TOTAL	**0.248**	**0.418**	**100.0**	**0.530**	**0.924**	**100.0**	**0.425**	**0.783**	**100.0**	**0.178**	**0.315**	**100.0**

Food group	HCB mean (LB)	HCB mean (UB)	HCB P95 (LB)	HCB P95 (UB)	HCB contrib (LB)	HCB contrib (UB)	HCH mean (UB)	HCH P95 (UB)	HCH contrib (UB)	Heptachlor mean (UB)	Heptachlor P95 (UB)	Heptachlor contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.013	0.0	3.0	0.014	0.039	3.9	0.019	0.052	4.3
Breakfast cereals	0.000	0.002	0.000	0.009	0.0	1.1	0.005	0.025	1.4	0.007	0.034	1.6
Pasta	0.000	0.005	0.000	0.014	0.0	3.2	0.015	0.042	4.1	0.020	0.057	4.6
Rice and wheat products	0.000	0.003	0.000	0.011	0.0	2.1	0.010	0.031	2.7	0.013	0.042	3.0
Croissant-like pastries	0.000	0.002	0.000	0.008	0.0	1.4	0.006	0.023	1.8	0.009	0.031	2.0
Sweet and savoury biscuits and bars	0.000	0.003	0.000	0.008	0.0	1.6	0.008	0.024	2.2	0.009	0.029	2.1
Pastries and cakes	0.000	0.004	0.000	0.013	0.0	2.7	0.013	0.040	3.5	0.017	0.054	3.8
Milk	0.000	0.011	0.000	0.028	0.0	6.6	0.035	0.094	9.7	0.032	0.085	7.1
Ultra-fresh dairy products	0.000	0.005	0.000	0.013	0.0	3.1	0.017	0.042	4.6	0.015	0.038	3.4
Cheese	0.000	0.001	0.000	0.002	0.0	0.5	0.003	0.008	0.7	0.002	0.007	0.5
Eggs and egg products	0.000	0.001	0.000	0.004	0.0	0.5	0.002	0.007	0.4	0.002	0.008	0.4
Butter	0.000	0.000	0.000	0.001	0.0	0.3	0.001	0.004	0.4	0.001	0.004	0.3
Meat	0.000	0.002	0.000	0.006	0.0	1.5	0.005	0.011	1.3	0.004	0.010	1.0
Poultry and game	0.000	0.001	0.001	0.004	52.3	0.8	0.002	0.008	0.7	0.002	0.007	0.5
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Delicatessen meats	0.000	0.002	0.000	0.004	47.7	1.0	0.003	0.008	0.8	0.003	0.007	0.6
Fish	0.000	0.001	0.000	0.002	0.0	0.4	0.002	0.007	0.5	0.002	0.006	0.4
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Vegetables (excluding potatoes)	0.000	0.013	0.000	0.037	0.0	8.4	0.037	0.105	10.3	0.130	0.357	29.1
Potatoes and potato products	0.000	0.010	0.000	0.026	0.0	6.5	0.042	0.105	11.5			
Pulses	0.000	0.001	0.000	0.012	0.0	0.5	0.000	0.016	0.1	0.000	0.021	0.1
Fruits	0.000	0.010	0.000	0.025	0.0	6.3	0.030	0.075	8.4	0.030	0.075	6.8
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.004	0.1	0.000	0.005	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.1	0.000	0.020	0.1	0.001	0.027	0.1
Chocolate	0.000	0.001	0.000	0.004	0.0	0.5	0.001	0.007	0.4	0.002	0.008	0.3
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.4	0.002	0.013	0.5	0.002	0.017	0.5
Water	0.000	0.013	0.000	0.076	0.0	8.4	0.022	0.133	6.2	0.024	0.150	5.4
Soft drinks	0.000	0.033	0.000	0.085	0.0	20.6	0.059	0.149	16.2	0.067	0.169	14.9
Alcoholic beverages	0.000	0.000	0.000	0.008	0.0	0.0	0.000	0.013	0.0	0.000	0.015	0.0
Coffee	0.000	0.000	0.000	0.010	0.0	0.1	0.000	0.018	0.1	0.000	0.020	0.1
Other hot beverages	0.000	0.005	0.000	0.033	0.0	2.9	0.008	0.058	2.3	0.009	0.066	2.1
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.013	0.0	1.4	0.000	0.005	0.1	0.000	0.005	0.1
Sandwiches and snacks	0.000	0.001	0.000	0.015	0.0	0.9						
Soups and broths	0.000	0.008	0.000	0.050	0.0	5.0						
Mixed dishes	0.000	0.007	0.000	0.030	0.0	4.4	0.001	0.007	0.2	0.001	0.006	0.2
Dairy-based desserts	0.000	0.002	0.000	0.008	0.0	1.1	0.006	0.021	1.5	0.005	0.019	1.1
Compotes and cooked fruit	0.000	0.004	0.000	0.018	0.0	2.6	0.012	0.053	3.4	0.017	0.072	3.7
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.4	0.000	0.001	0.0	0.000	0.001	0.0
TOTAL	**0.000**	**0.160**	**0.001**	**0.278**	**100.0**	**100.0**	**0.362**	**0.609**	**100.0**	**0.447**	**0.817**	**100.0**

Food group	Lindane mean (LB)	Lindane mean (UB)	Lindane P95 (LB)	Lindane P95 (UB)	Lindane contrib (LB)	Lindane contrib (UB)	Toxaphene mean (UB)	Toxaphene P95 (UB)	Toxaphene contrib (UB)
Bread and dried bread products	0.000	0.032	0.000	0.087	0.0	9.2			
Breakfast cereals	0.000	0.012	0.000	0.057	0.0	3.3			
Pasta	0.000	0.034	0.000	0.095	0.0	9.8			
Rice and wheat products	0.000	0.022	0.000	0.071	0.0	6.3			
Croissant-like pastries	0.000	0.015	0.000	0.051	0.0	4.2			
Sweet and savoury biscuits and bars	0.000	0.016	0.000	0.050	0.0	4.6			
Pastries and cakes	0.000	0.028	0.000	0.089	0.0	8.2			
Milk	0.000	0.011	0.000	0.028	0.0	3.0	0.018	0.047	44.1
Ultra-fresh dairy products	0.000	0.005	0.000	0.013	0.0	1.4	0.008	0.021	20.9
Cheese	0.000	0.001	0.000	0.002	0.0	0.2	0.001	0.004	3.2
Eggs and egg products	0.000	0.002	0.001	0.007	1.4	0.5	0.001	0.004	2.0
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.001	0.002	1.8
Meat	0.000	0.002	0.000	0.006	1.3	0.7	0.002	0.006	6.0
Poultry and game	0.002	0.003	0.012	0.013	97.3	0.8	0.001	0.004	3.0
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.002	0.000	0.004	0.0	0.4	0.002	0.004	3.8
Fish	0.000	0.001	0.000	0.002	0.0	0.2	0.001	0.003	2.4
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.2
Vegetables (excluding potatoes)	0.000	0.027	0.000	0.065	0.0	7.9			
Potatoes and potato products	0.000	0.015	0.000	0.042	0.0	4.3			
Pulses	0.000	0.001	0.000	0.018	0.0	0.4			
Fruits	0.000	0.011	0.000	0.036	0.0	3.2			
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.008	0.0	0.2			
Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.045	0.0	0.2			
Chocolate	0.000	0.001	0.000	0.004	0.0	0.2			
Sugars and sugar derivatives	0.000	0.004	0.000	0.027	0.0	1.0			
Water	0.000	0.013	0.000	0.076	0.0	3.9	0.002	0.004	3.9
Soft drinks	0.000	0.035	0.000	0.090	0.0	10.1			
Alcoholic beverages	0.000	0.000	0.000	0.008	0.0	0.0			
Coffee	0.000	0.000	0.000	0.010	0.0	0.0			
Other hot beverages	0.000	0.005	0.000	0.033	0.0	1.3			
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.013	0.0	0.6	0.000	0.003	0.4
Sandwiches and snacks	0.000	0.001	0.000	0.015	0.0	0.4			
Soups and broths	0.000	0.008	0.000	0.050	0.0	2.3			
Mixed dishes	0.000	0.007	0.000	0.030	0.0	2.0	0.000	0.003	1.1
Dairy-based desserts	0.000	0.002	0.000	0.008	0.0	0.6	0.003	0.011	7.0
Compotes and cooked fruit	0.000	0.028	0.000	0.120	0.0	7.9			
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.2	0.000	0.001	0.2
TOTAL	**0.002**	**0.347**	**0.011**	**0.568**	**100.0**	**100.0**	**0.040**	**0.072**	**100.0**

Table G42: Estimated exposure (mean and P95) in children aged 3 to 6 years to other pesticide residues (µg/kg bw/day) and contribution of foods (%)

Food group	Biphenyl mean (UB)	Biphenyl P95 (UB)	Biphenyl contrib (UB)	Deltamethrin mean (UB)	Deltamethrin P95 (UB)	Deltamethrin contrib (UB)	Diquat mean (UB)	Diquat P95 (UB)	Diquat contrib (UB)	Ethoxyquin mean (LB)	Ethoxyquin mean (UB)	Ethoxyquin P95 (LB)	Ethoxyquin P95 (UB)
Bread and dried bread products				0.011	0.031	2.3				0.000	0.008	0.000	0.022
Breakfast cereals				0.004	0.020	0.8				0.000	0.003	0.000	0.014
Pasta				0.012	0.033	2.4				0.000	0.009	0.000	0.024
Rice and wheat products				0.008	0.025	1.6				0.000	0.006	0.000	0.018
Croissant-like pastries				0.005	0.018	1.0				0.000	0.004	0.000	0.013
Sweet and savoury biscuits and bars				0.008	0.030	1.6				0.000	0.004	0.000	0.012
Pastries and cakes				0.010	0.031	2.0				0.000	0.007	0.000	0.022
Milk				0.035	0.094	7.1	0.035	0.094	63.5	0.000	0.351	0.000	0.943
Ultra-fresh dairy products				0.017	0.042	3.4	0.012	0.033	22.2	0.000	0.022	0.000	0.204
Cheese				0.003	0.008	0.5							
Eggs and egg products				0.002	0.007	0.3							
Butter				0.001	0.004	0.3							
Meat				0.005	0.011	1.0							
Poultry and game				0.002	0.008	0.5							
Offal				0.000	0.002	0.0							
Delicatessen meats				0.003	0.008	0.6							
Fish				0.002	0.007	0.4							
Crustaceans and molluscs				0.000	0.002	0.0							
Vegetables (excluding potatoes)				0.061	0.176	12.3				0.000	0.024	0.000	0.068
Potatoes and potato products				0.082	0.209	16.4							
Pulses				0.004	0.060	0.8				0.000	0.000	0.000	0.009
Fruits	0.017	0.041	24.3	0.010	0.028	2.1				0.013	0.014	0.128	0.128
Dried fruits, nuts and seeds				0.000	0.003	0.0				0.000	0.000	0.000	0.002
Ice creams, sorbets and frozen desserts				0.000	0.016	0.1				0.000	0.000	0.000	0.011
Chocolate	0.001	0.004	1.1	0.002	0.008	0.3							
Sugars and sugar derivatives	0.000	0.003	0.2	0.001	0.011	0.3				0.000	0.001	0.000	0.007
Water	0.013	0.076	19.6	0.025	0.151	5.1	0.002	0.004	2.8	0.000	0.002	0.000	0.004
Soft drinks	0.033	0.085	47.7	0.066	0.169	13.3				0.000	0.001	0.000	0.008
Alcoholic beverages	0.000	0.008	0.1	0.000	0.015	0.0							
Coffee	0.000	0.010	0.2	0.000	0.020	0.0							
Other hot beverages	0.005	0.033	6.8	0.009	0.066	1.9							
Pizzas, quiches and savoury pastries				0.011	0.065	2.2	0.000	0.005	0.6				
Sandwiches and snacks				0.007	0.075	1.4							
Soups and broths				0.040	0.252	8.0							
Mixed dishes				0.033	0.148	6.6	0.001	0.007	1.6				
Dairy-based desserts				0.006	0.026	1.2	0.005	0.023	9.3				
Compotes and cooked fruit				0.010	0.042	1.9				0.002	0.012	0.011	0.060
Seasonings and sauces				0.003	0.023	0.6							
TOTAL	**0.068**	**0.152**	**100.0**	**0.497**	**0.852**	**100.0**	**0.055**	**0.114**	**100.0**	**0.015**	**0.466**	**0.084**	**1.008**

Food group	Ethoxyquin contrib (LB)	Ethoxyquin contrib (UB)	Fenpropimorph mean (UB)	Fenpropimorph P95 (UB)	Fenpropimorph contrib (UB)	Ofurace mean (UB)	Ofurace P95 (UB)	Ofurace contrib (UB)	Rotenone mean (UB)	Rotenone P95 (UB)	Rotenone contrib (UB)
Bread and dried bread products	0.0	1.7	0.008	0.022	5.9						
Breakfast cereals	0.0	0.6	0.003	0.014	2.1						
Pasta	0.0	1.8	0.009	0.024	6.3						
Rice and wheat products	0.0	1.2	0.006	0.018	4.1						
Croissant-like pastries	0.0	0.8	0.004	0.013	2.7						
Sweet and savoury biscuits and bars	0.0	0.8	0.004	0.012	2.9						
Pastries and cakes	0.0	1.5	0.007	0.022	5.3						
Milk	0.0	75.4	0.018	0.047	13.0	0.018	0.047	44.3	0.018	0.047	51.0
Ultra-fresh dairy products	0.0	4.7	0.006	0.017	4.5	0.008	0.021	21.0	0.006	0.017	17.8
Cheese						0.001	0.004	3.2			
Eggs and egg products						0.001	0.004	2.0	0.001	0.004	2.3
Butter						0.001	0.002	1.8			
Meat						0.002	0.006	5.6	0.002	0.006	6.4
Poultry and game						0.001	0.004	3.0	0.001	0.004	3.4
Offal						0.000	0.001	0.0	0.000	0.001	0.1
Delicatessen meats						0.002	0.004	3.9	0.002	0.004	4.4
Fish						0.001	0.003	2.4			
Crustaceans and molluscs						0.000	0.001	0.2			
Vegetables (excluding potatoes)	0.0	5.2	0.044	0.122	32.6						
Potatoes and potato products											
Pulses	0.0	0.0	0.000	0.009	0.1						
Fruits	88.6	2.9	0.017	0.041	12.4						
Dried fruits, nuts and seeds	0.0	0.0	0.000	0.002	0.1						
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.011	0.2						
Chocolate											
Sugars and sugar derivatives	0.0	0.2	0.001	0.007	0.6						
Water	0.0	0.3	0.002	0.004	1.2	0.002	0.004	4.0	0.002	0.004	4.6
Soft drinks	0.0	0.1	0.001	0.008	0.5						
Alcoholic beverages											
Coffee											
Other hot beverages											
Pizzas, quiches and savoury pastries			0.000	0.003	0.1	0.000	0.003	0.4	0.000	0.003	0.5
Sandwiches and snacks											
Soups and broths											
Mixed dishes			0.000	0.003	0.3	0.000	0.003	1.1	0.000	0.003	1.3
Dairy-based desserts						0.003	0.011	7.0	0.003	0.011	8.1
Compotes and cooked fruit	11.4	2.6	0.007	0.030	5.1						
Seasonings and sauces						0.000	0.001	0.2	0.000	0.001	0.2
TOTAL	**100.0**	**100.0**	**0.136**	**0.257**	**100.0**	**0.040**	**0.072**	**100.0**	**0.034**	**0.065**	**100.0**

Table G43: Estimated exposure in children aged 7 to 10 years (mean and P95) to carbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Aldicarb mean (UB)	Aldicarb P95 (UB)	Aldicarb contrib (UB)	Carbaryl mean (LB)	Carbaryl mean (UB)	Carbaryl P95 (UB)	Carbaryl contrib (LB)	Carbaryl contrib (UB)	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)
Bread and dried bread products				0.000	0.005	0.013	0.0	3.3	0.000	0.009	0.000	0.021
Breakfast cereals				0.000	0.001	0.006	0.0	0.9	0.000	0.002	0.000	0.010
Pasta				0.000	0.004	0.011	0.0	2.5	0.000	0.007	0.000	0.018
Rice and wheat products				0.000	0.002	0.007	0.0	1.3	0.000	0.003	0.000	0.012
Croissant-like pastries				0.000	0.002	0.007	0.0	1.1	0.000	0.003	0.000	0.011
Sweet and savoury biscuits and bars	0.001	0.009	0.2	0.000	0.002	0.006	0.0	1.1	0.000	0.003	0.000	0.010
Pastries and cakes				0.000	0.004	0.010	0.0	2.2	0.000	0.006	0.000	0.017
Milk	0.114	0.297	33.1	0.000	0.010	0.026	0.0	6.2	0.000	0.010	0.000	0.026
Ultra-fresh dairy products	0.014	0.063	3.9	0.000	0.005	0.011	100.0	2.9	0.000	0.005	0.000	0.011
Cheese	0.002	0.005	0.6	0.000	0.001	0.003	0.0	0.6	0.000	0.001	0.000	0.003
Eggs and egg products	0.006	0.025	1.8	0.000	0.001	0.002	0.0	0.4	0.000	0.001	0.000	0.002
Butter	0.001	0.003	0.3									
Meat	0.022	0.054	6.4	0.000	0.002	0.005	0.0	1.2	0.000	0.002	0.000	0.005
Poultry and game	0.012	0.039	3.4	0.000	0.001	0.003	0.0	0.6	0.000	0.001	0.000	0.003
Offal	0.000	0.014	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.014	0.041	4.1	0.000	0.001	0.004	0.0	0.8	0.000	0.001	0.000	0.004
Fish	0.003	0.010	0.7	0.000	0.001	0.003	0.0	0.4	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.003	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.003	0.031	0.8	0.000	0.039	0.098	0.0	24.2	0.000	0.020	0.000	0.048
Potatoes and potato products	0.032	0.079	9.4	0.000	0.009	0.021	0.0	5.4	0.000	0.024	0.000	0.059
Pulses	0.004	0.033	1.0	0.000	0.001	0.010	0.0	0.6	0.000	0.003	0.000	0.023
Fruits	0.045	0.133	13.1	0.000	0.011	0.033	0.0	7.1	0.011	0.028	0.076	0.107
Dried fruits, nuts and seeds				0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts				0.000	0.000	0.007	0.0	0.1	0.000	0.000	0.000	0.012
Chocolate				0.000	0.001	0.004	0.0	0.5				
Sugars and sugar derivatives	0.000	0.000	0.0	0.000	0.001	0.005	0.0	0.3	0.000	0.001	0.000	0.006
Water	0.002	0.007	0.6	0.000	0.010	0.050	0.0	6.0	0.010	0.012	0.074	0.077
Soft drinks	0.002	0.008	0.7	0.000	0.025	0.075	0.0	15.3	0.000	0.003	0.000	0.010
Alcoholic beverages	0.000	0.000	0.0	0.000	0.000	0.005	0.0	0.0	0.000	0.000	0.000	0.000
Coffee				0.000	0.000	0.063	0.0	0.1				
Other hot beverages	0.000	0.006	0.1	0.000	0.003	0.029	0.0	2.1	0.000	0.000	0.000	0.008
Pizzas, quiches and savoury pastries	0.007	0.039	2.1	0.000	0.002	0.013	0.0	1.2	0.000	0.008	0.000	0.053
Sandwiches and snacks	0.004	0.033	1.2	0.000	0.001	0.009	0.0	0.7	0.000	0.004	0.000	0.035
Soups and broths	0.026	0.151	7.6	0.000	0.007	0.041	0.0	4.4	0.000	0.018	0.000	0.107
Mixed dishes	0.020	0.063	5.9	0.000	0.006	0.017	0.0	3.6	0.000	0.022	0.000	0.068
Dairy-based desserts	0.008	0.036	2.3	0.000	0.002	0.007	0.0	1.1	0.000	0.002	0.000	0.007
Compotes and cooked fruit				0.000	0.002	0.011	0.0	1.4	0.000	0.004	0.000	0.018
Seasonings and sauces	0.002	0.012	0.6	0.000	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.011
TOTAL	**0.345**	**0.614**	**100.0**	**0.000**	**0.161**	**0.276**	**100.0**	**100.0**	**0.020**	**0.205**	**0.138**	**0.373**

Food group	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Carbetamide mean (UB)	Carbetamide P95 (UB)	Carbetamide contrib (UB)	Carbofuran mean (LB)	Carbofuran mean (UB)	Carbofuran P95 (LB)	Carbofuran P95 (UB)	Carbofuran contrib (LB)	Carbofuran contrib (UB)
Bread and dried bread products	0.0	4.3				0.000	0.009	0.000	0.021	0.0	5.3
Breakfast cereals	0.0	1.1				0.000	0.002	0.000	0.010	0.0	1.4
Pasta	0.0	3.3				0.000	0.007	0.000	0.018	0.0	4.0
Rice and wheat products	0.0	1.6				0.000	0.003	0.000	0.012	0.0	2.0
Croissant-like pastries	0.0	1.4				0.000	0.003	0.000	0.011	0.0	1.7
Sweet and savoury biscuits and bars	0.0	1.5				0.000	0.003	0.000	0.010	0.0	1.7
Pastries and cakes	0.0	2.9				0.000	0.006	0.000	0.017	0.0	3.5
Milk	0.0	4.9	0.010	0.026	39.6	0.000	0.010	0.000	0.026	0.0	5.9
Ultra-fresh dairy products	0.0	2.2	0.005	0.011	18.6	0.000	0.004	0.000	0.011	0.0	2.2
Cheese	0.0	0.5	0.001	0.003	3.9						
Eggs and egg products	0.0	0.3	0.001	0.002	2.4	0.000	0.001	0.000	0.002	0.0	0.4
Butter			0.000	0.001	1.8						
Meat	0.0	0.9	0.002	0.005	7.7	0.000	0.002	0.000	0.005	0.0	1.1
Poultry and game	0.0	0.5	0.001	0.003	4.1	0.000	0.001	0.000	0.003	0.0	0.6
Offal	0.0	0.0	0.000	0.001	0.1	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.0	0.6	0.001	0.004	4.9	0.000	0.001	0.000	0.004	0.0	0.7
Fish	0.0	0.3	0.001	0.003	2.8	0.000	0.001	0.000	0.003	0.0	0.4
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.0	9.6				0.001	0.034	0.002	0.084	100.0	19.8
Potatoes and potato products	0.0	11.9				0.000	0.009	0.000	0.021	0.0	5.2
Pulses	0.0	1.2				0.000	0.001	0.000	0.011	0.0	0.6
Fruits	51.8	13.8				0.000	0.011	0.000	0.034	0.0	6.8
Dried fruits, nuts and seeds	0.0	0.1				0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.0	0.1				0.000	0.000	0.000	0.012	0.0	0.1
Chocolate						0.000	0.001	0.000	0.004	0.0	0.5
Sugars and sugar derivatives	0.0	0.4				0.000	0.001	0.000	0.006	0.0	0.5
Water	48.2	5.8	0.001	0.003	5.1	0.000	0.010	0.000	0.050	0.0	5.7
Soft drinks	0.0	1.6				0.000	0.025	0.000	0.075	0.0	14.8
Alcoholic beverages	0.0	0.0				0.000	0.000	0.000	0.005	0.0	0.0
Coffee						0.000	0.000	0.000	0.063	0.0	0.1
Other hot beverages	0.0	0.1				0.000	0.003	0.000	0.029	0.0	2.0
Pizzas, quiches and savoury pastries	0.0	3.7	0.000	0.002	0.5	0.000	0.002	0.000	0.010	0.0	1.2
Sandwiches and snacks	0.0	2.2				0.000	0.001	0.000	0.009	0.0	0.7
Soups and broths	0.0	9.0				0.000	0.007	0.000	0.041	0.0	4.2
Mixed dishes	0.0	10.5	0.000	0.003	1.5	0.000	0.006	0.000	0.017	0.0	3.4
Dairy-based desserts	0.0	1.2	0.002	0.007	6.5	0.000	0.002	0.000	0.007	0.0	1.1
Compotes and cooked fruit	0.0	1.8				0.000	0.004	0.000	0.018	0.0	2.2
Seasonings and sauces	0.0	0.7	0.000	0.000	0.2	0.000	0.000	0.000	0.003	0.0	0.3
TOTAL	**100.0**	**100.0**	**0.025**	**0.045**	**100.0**	**0.001**	**0.169**	**0.002**	**0.282**	**100.0**	**100.0**

Food group	Methomyl mean (LB)	Methomyl mean (UB)	Methomyl P95 (LB)	Methomyl P95 (UB)	Methomyl contrib (LB)	Methomyl contrib (UB)	Triallate mean (UB)	Triallate P95 (UB)	Triallate contrib (UB)
Bread and dried bread products									
Breakfast cereals									
Pasta									
Rice and wheat products									
Croissant-like pastries									
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.004	0.0	0.3			
Pastries and cakes									
Milk	0.000	0.015	0.000	0.038	0.0	15.4	0.006	0.016	37.3
Ultra-fresh dairy products	0.000	0.007	0.000	0.017	0.0	7.2	0.003	0.007	17.6
Cheese	0.000	0.001	0.000	0.004	0.0	1.5	0.001	0.002	3.7
Eggs and egg products	0.000	0.001	0.000	0.002	0.0	0.6	0.001	0.002	3.7
Butter	0.000	0.001	0.000	0.002	0.0	0.7	0.000	0.001	1.7
Meat	0.000	0.002	0.000	0.005	0.0	2.0	0.001	0.003	7.7
Poultry and game	0.000	0.001	0.000	0.003	0.0	1.1	0.001	0.002	3.9
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.1
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	1.3	0.001	0.002	4.7
Fish	0.000	0.001	0.000	0.003	0.0	0.7	0.000	0.002	2.6
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.2
Vegetables (excluding potatoes)	0.000	0.001	0.000	0.012	0.0	1.1			
Potatoes and potato products	0.000	0.013	0.000	0.031	0.0	13.5			
Pulses	0.000	0.001	0.000	0.013	0.0	1.5			
Fruits	0.000	0.017	0.000	0.051	100.0	18.2			
Dried fruits, nuts and seeds									
Ice creams, sorbets and frozen desserts									
Chocolate									
Sugars and sugar derivatives	0.000	0.000	0.000	0.001	0.0	0.0			
Water	0.000	0.003	0.000	0.009	0.0	2.6	0.001	0.003	8.1
Soft drinks	0.000	0.004	0.000	0.011	0.0	3.7			
Alcoholic beverages	0.000	0.000	0.000	0.001	0.0	0.0			
Coffee									
Other hot beverages	0.000	0.000	0.000	0.009	0.0	0.3			
Pizzas, quiches and savoury pastries	0.000	0.003	0.000	0.015	0.0	3.2	0.000	0.001	0.5
Sandwiches and snacks	0.000	0.002	0.000	0.013	0.0	1.7			
Soups and broths	0.000	0.010	0.000	0.060	0.0	10.8			
Mixed dishes	0.000	0.008	0.000	0.025	0.0	8.8	0.000	0.002	1.4
Dairy-based desserts	0.000	0.003	0.000	0.010	0.0	2.7	0.001	0.005	6.6
Compotes and cooked fruit									
Seasonings and sauces	0.000	0.001	0.000	0.005	0.0	0.7	0.000	0.000	0.3
TOTAL	**0.000**	**0.095**	**0.000**	**0.161**	**100.0**	**100.0**	**0.016**	**0.028**	**100.0**

Table G44: Estimated exposure (mean and P95) in children aged 7 to 10 years to dicarboximides (µg/kg bw/day) and contribution of foods (%)

Food group	Folpet mean (LB)	Folpet mean (UB)	Folpet P95 (UB)	Folpet contrib (LB)	Folpet contrib (UB)	Iprodione mean (LB)	Iprodione mean (UB)	Iprodione P95 (LB)	Iprodione P95 (UB)	Iprodione contrib (LB)	Iprodione contrib (UB)	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.009	0.021	0.0	2.0	0.000	0.009	0.000	0.021	0.0	1.8	0.000	0.009	0.000	0.021	0.0	2.0
Breakfast cereals	0.000	0.002	0.010	0.0	0.5	0.000	0.002	0.000	0.010	0.0	0.5	0.000	0.002	0.000	0.010	0.0	0.5
Pasta	0.000	0.007	0.018	0.0	1.5	0.000	0.007	0.000	0.018	0.0	1.4	0.000	0.007	0.000	0.018	0.0	1.5
Rice and wheat products	0.000	0.003	0.012	0.0	0.7	0.000	0.003	0.000	0.012	0.0	0.7	0.000	0.003	0.000	0.012	0.0	0.8
Croissant-like pastries	0.000	0.003	0.011	0.0	0.6	0.000	0.003	0.000	0.011	0.0	0.6	0.000	0.003	0.000	0.011	0.0	0.6
Sweet and savoury biscuits and bars	0.000	0.003	0.012	0.0	0.8	0.000	0.003	0.000	0.010	0.0	0.6	0.000	0.003	0.000	0.010	0.0	0.7
Pastries and cakes	0.000	0.006	0.017	0.0	1.3	0.000	0.006	0.000	0.017	0.0	1.2	0.000	0.006	0.000	0.017	0.0	1.3
Milk	0.000	0.040	0.104	0.0	8.8	0.000	0.040	0.000	0.104	0.0	8.1	0.000	0.106	0.000	0.276	0.0	23.6
Ultra-fresh dairy products	0.000	0.025	0.066	0.0	5.5	0.000	0.025	0.000	0.066	0.0	5.0	0.000	0.050	0.000	0.122	0.0	11.1
Cheese	0.000	0.010	0.026	0.0	2.2	0.000	0.010	0.000	0.026	0.0	2.0	0.000	0.011	0.000	0.028	0.0	2.3
Eggs and egg products	0.000	0.006	0.024	0.0	1.3	0.000	0.006	0.000	0.024	0.0	1.2	0.000	0.007	0.000	0.026	0.0	1.5
Butter	0.000	0.005	0.013	0.0	1.0	0.000	0.005	0.000	0.013	0.0	0.9	0.000	0.005	0.000	0.014	0.0	1.1
Meat	0.000	0.021	0.052	0.0	4.6	0.000	0.021	0.000	0.052	0.0	4.2	0.000	0.022	0.000	0.055	0.0	4.9
Poultry and game	0.000	0.010	0.034	0.0	2.3	0.000	0.010	0.000	0.034	0.0	2.1	0.000	0.011	0.000	0.036	0.0	2.5
Offal	0.000	0.000	0.012	0.0	0.1	0.000	0.000	0.000	0.012	0.0	0.1	0.000	0.000	0.000	0.013	0.0	0.1
Delicatessen meats	0.000	0.013	0.036	0.0	2.8	0.000	0.013	0.000	0.036	0.0	2.5	0.000	0.013	0.000	0.039	0.0	3.0
Fish	0.000	0.003	0.011	0.0	0.6	0.000	0.003	0.000	0.011	0.0	0.6	0.000	0.007	0.000	0.030	0.0	1.7
Crustaceans and molluscs	0.000	0.000	0.004	0.0	0.0	0.000	0.000	0.000	0.004	0.0	0.0	0.000	0.000	0.000	0.009	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.034	0.086	0.0	7.5	0.134	0.150	0.726	0.737	83.8	30.3	0.008	0.077	0.056	0.207	100.0	17.2
Potatoes and potato products	0.000	0.131	0.453	0.0	28.8	0.000	0.018	0.000	0.045	0.0	3.7	0.000	0.010	0.000	0.023	0.0	2.2
Pulses	0.000	0.001	0.014	0.0	0.3	0.000	0.002	0.000	0.019	0.0	0.4	0.000	0.001	0.000	0.011	0.0	0.2
Fruits	0.002	0.009	0.032	100.0	1.9	0.024	0.034	0.172	0.183	15.1	6.9	0.000	0.011	0.000	0.034	0.0	2.6
Dried fruits, nuts and seeds	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.012	0.0	0.0	0.000	0.000	0.000	0.012	0.0	0.0	0.000	0.000	0.000	0.012	0.0	0.0
Chocolate	0.000	0.002	0.009	0.0	0.4	0.000	0.002	0.000	0.009	0.0	0.3	0.000	0.001	0.000	0.004	0.0	0.2
Sugars and sugar derivatives	0.000	0.001	0.009	0.0	0.2	0.000	0.001	0.000	0.009	0.0	0.2	0.000	0.001	0.000	0.006	0.0	0.2
Water	0.000	0.018	0.099	0.0	3.9	0.000	0.018	0.000	0.099	0.0	3.6	0.000	0.010	0.000	0.050	0.0	2.1
Soft drinks	0.000	0.049	0.150	0.0	10.8	0.000	0.049	0.000	0.150	0.0	10.0	0.000	0.025	0.000	0.075	0.0	5.6
Alcoholic beverages	0.000	0.000	0.009	0.0	0.0	0.000	0.000	0.006	0.009	0.0	0.0	0.000	0.000	0.000	0.005	0.0	0.0
Coffee	0.000	0.000	0.125	0.0	0.1	0.000	0.000	0.000	0.125	0.0	0.1	0.000	0.000	0.000	0.063	0.0	0.0
Other hot beverages	0.000	0.007	0.058	0.0	1.5	0.000	0.007	0.000	0.058	0.0	1.4	0.000	0.003	0.000	0.029	0.0	0.7
Pizzas, quiches and savoury pastries	0.000	0.003	0.016	0.0	0.7	0.000	0.004	0.000	0.021	0.0	0.9	0.000	0.003	0.000	0.019	0.0	0.8
Sandwiches and snacks	0.000	0.002	0.012	0.0	0.3	0.002	0.004	0.045	0.047	1.0	0.8	0.000	0.001	0.000	0.009	0.0	0.2
Soups and broths	0.000	0.010	0.057	0.0	2.2	0.000	0.014	0.000	0.082	0.0	2.9	0.000	0.007	0.000	0.041	0.0	1.6
Mixed dishes	0.000	0.009	0.027	0.0	2.0	0.000	0.012	0.001	0.037	0.1	2.5	0.000	0.009	0.000	0.032	0.0	2.1
Dairy-based desserts	0.000	0.008	0.040	0.0	1.7	0.000	0.008	0.000	0.040	0.0	1.6	0.000	0.018	0.000	0.072	0.0	3.9
Compotes and cooked fruit	0.000	0.004	0.018	0.0	0.8	0.000	0.004	0.000	0.018	0.0	0.7	0.000	0.004	0.000	0.018	0.0	0.8
Seasonings and sauces	0.000	0.001	0.005	0.0	0.2	0.000	0.001	0.000	0.007	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.2
TOTAL	**0.002**	**0.454**	**0.884**	**100.0**	**100.0**	**0.160**	**0.495**	**0.726**	**1.075**	**100.0**	**100.0**	**0.008**	**0.449**	**0.056**	**0.718**	**100.0**	**100.0**

Table G45: Estimated exposure (mean and P95) in children aged 7 to 10 years to dithiocarbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Dithiocarbamates mean (UB)	Dithiocarbamates P95 (UB)	Dithiocarbamates contrib (UB)
Bread and dried bread products	0.357	0.842	14.4
Breakfast cereals	0.094	0.387	3.8
Pasta	0.268	0.727	10.8
Rice and wheat products	0.135	0.462	5.4
Croissant-like pastries	0.051	0.343	2.0
Sweet and savoury biscuits and bars	0.028	0.207	1.1
Pastries and cakes	0.059	0.305	2.4
Milk	0.020	0.052	0.8
Ultra-fresh dairy products	0.007	0.021	0.3
Cheese			
Eggs and egg products			
Butter			
Meat			
Poultry and game			
Offal			
Delicatessen meats			
Fish			
Crustaceans and molluscs			
Vegetables (excluding potatoes)	0.174	0.435	7.0
Potatoes and potato products	0.156	0.391	6.3
Pulses	0.013	0.179	0.5
Fruits	0.451	1.329	18.2
Dried fruits. nuts and seeds			
Ice creams. sorbets and frozen desserts			
Chocolate			
Sugars and sugar derivatives			
Water	0.001	0.003	0.1
Soft drinks	0.500	1.752	20.2
Alcoholic beverages	0.001	0.122	0.0
Coffee			
Other hot beverages			
Pizzas. quiches and savoury pastries	0.000	0.005	0.0
Sandwiches and snacks			
Soups and broths	0.041	0.264	1.7
Mixed dishes	0.001	0.005	0.0
Dairy-based desserts	0.006	0.024	0.2
Compotes and cooked fruit	0.112	0.700	4.5
Seasonings and sauces	0.001	0.016	0.1
TOTAL	**2.477**	**4.605**	**100.0**

Table G46: Estimated exposure (mean and P95) in children aged 7 to 10 years to imidazoles (µg/kg bw/day) and contribution of foods (%)

Food group	Imazalil mean (LB)	Imazalil mean (UB)	Imazalil P95 (LB)	Imazalil P95 (UB)	Imazalil contrib (LB)	Imazalil contrib (UB)	Prochloraz mean (UB)	Prochloraz P95 (UB)	Prochloraz contrib (UB)
Bread and dried bread products	0.000	0.179	0.000	0.421	0.0	13.5	0.009	0.021	3.2
Breakfast cereals	0.000	0.047	0.000	0.194	0.0	3.6	0.002	0.010	0.8
Pasta	0.000	0.134	0.000	0.364	0.0	10.1	0.007	0.018	2.4
Rice and wheat products	0.000	0.067	0.000	0.231	0.0	5.1	0.003	0.012	1.2
Croissant-like pastries	0.000	0.057	0.000	0.224	0.0	4.3	0.003	0.011	1.0
Sweet and savoury biscuits and bars	0.000	0.055	0.000	0.198	0.0	4.2	0.003	0.010	1.1
Pastries and cakes	0.000	0.119	0.000	0.346	0.0	9.0	0.006	0.017	2.1
Milk	0.000	0.010	0.000	0.026	0.0	0.8	0.010	0.026	3.6
Ultra-fresh dairy products	0.000	0.004	0.000	0.011	0.0	0.3	0.004	0.011	1.3
Cheese									
Eggs and egg products	0.000	0.001	0.000	0.002	0.0	0.0			
Butter									
Meat	0.000	0.004	0.000	0.009	0.0	0.3			
Poultry and game	0.000	0.002	0.000	0.007	0.0	0.2			
Offal	0.000	0.000	0.000	0.002	0.0	0.0			
Delicatessen meats	0.000	0.002	0.000	0.007	0.0	0.2			
Fish							0.001	0.003	0.3
Crustaceans and molluscs	0.000	0.000	0.001	0.001	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.082	0.000	0.208	0.0	6.2	0.019	0.045	6.7
Potatoes and potato products	0.141	0.168	0.971	1.078	70.9	12.7	0.012	0.032	4.4
Pulses	0.000	0.004	0.000	0.059	0.0	0.3	0.001	0.012	0.4
Fruits	0.033	0.077	0.210	0.265	16.7	5.8	0.023	0.066	8.2
Dried fruits, nuts and seeds	0.000	0.003	0.000	0.057	0.0	0.2	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.003	0.000	0.231	0.0	0.2	0.000	0.012	0.0
Chocolate	0.000	0.003	0.000	0.018	0.0	0.3	0.003	0.018	1.2
Sugars and sugar derivatives	0.000	0.015	0.000	0.120	0.0	1.1	0.001	0.010	0.4
Water	0.000	0.034	0.000	0.196	0.0	2.6	0.034	0.196	12.4
Soft drinks	0.025	0.131	0.117	0.469	12.4	9.9	0.098	0.300	35.1
Alcoholic beverages	0.000	0.000	0.000	0.018	0.0	0.0	0.000	0.018	0.1
Coffee	0.000	0.001	0.000	0.250	0.0	0.0	0.001	0.250	0.2
Other hot beverages	0.000	0.013	0.000	0.116	0.0	1.0	0.013	0.116	4.8
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.021	0.0	0.3	0.002	0.012	0.9
Sandwiches and snacks	0.000	0.002	0.000	0.018	0.0	0.2	0.001	0.011	0.5
Soups and broths	0.000	0.014	0.000	0.082	0.0	1.1	0.008	0.049	3.0
Mixed dishes	0.000	0.011	0.000	0.034	0.0	0.8	0.007	0.020	2.5
Dairy-based desserts	0.000	0.002	0.000	0.007	0.0	0.2	0.002	0.007	0.6
Compotes and cooked fruit	0.000	0.073	0.000	0.354	0.0	5.5	0.004	0.018	1.3
Seasonings and sauces	0.000	0.001	0.000	0.006	0.0	0.1	0.001	0.004	0.2
TOTAL	**0.199**	**1.323**	**1.044**	**2.590**	**100.0**	**100.0**	**0.279**	**0.613**	**100.0**

Table G47: Estimated exposure (mean and P95) in children aged 7 to 10 years to organochlorines (µg/kg bw/day) and contribution of foods (%)

Food group	Chlorothalonil mean (LB)	Chlorothalonil mean (UB)	Chlorothalonil P95 (LB)	Chlorothalonil P95 (UB)	Chlorothalonil contrib (LB)	Chlorothalonil contrib (UB)	Dicofol mean (UB)	Dicofol P95 (UB)	Dicofol contrib (UB)	Endosulfan mean (LB)	Endosulfan mean (UB)	Endosulfan P95 (LB)	Endosulfan P95 (UB)	Endosulfan contrib (LB)	Endosulfan contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.013	0.0	3.4	0.013	0.029	4.5	0.000	0.016	0.000	0.037	0.0	2.8
Breakfast cereals	0.000	0.001	0.000	0.006	0.0	0.9	0.003	0.014	1.2	0.000	0.004	0.000	0.017	0.0	0.7
Pasta	0.000	0.004	0.000	0.011	0.0	2.6	0.009	0.025	3.4	0.000	0.012	0.000	0.032	0.0	2.1
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	1.3	0.005	0.016	1.7	0.000	0.006	0.000	0.021	0.0	1.0
Croissant-like pastries	0.000	0.002	0.000	0.007	0.0	1.1	0.004	0.016	1.4	0.000	0.005	0.000	0.020	0.0	0.9
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.009	0.0	1.4	0.004	0.014	1.5	0.000	0.006	0.000	0.020	0.0	1.1
Pastries and cakes	0.000	0.004	0.000	0.010	0.0	2.3	0.008	0.024	3.0	0.000	0.011	0.000	0.031	0.0	1.8
Milk	0.000	0.006	0.000	0.016	0.0	3.8	0.010	0.026	3.6	0.000	0.018	0.000	0.046	0.0	3.1
Ultra-fresh dairy products	0.000	0.004	0.000	0.010	0.0	2.5	0.006	0.015	2.1	0.000	0.008	0.000	0.020	0.0	1.5
Cheese	0.000	0.001	0.000	0.002	0.0	0.4	0.002	0.005	0.7	0.000	0.002	0.000	0.005	0.0	0.3
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.005	0.4	0.000	0.001	0.000	0.004	0.0	0.2
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.3	0.000	0.001	0.000	0.002	0.0	0.1
Meat	0.000	0.004	0.000	0.010	0.0	2.6	0.004	0.010	1.5	0.000	0.004	0.000	0.009	0.0	0.6
Poultry and game	0.000	0.002	0.000	0.007	0.0	1.3	0.002	0.007	0.7	0.000	0.002	0.000	0.006	0.0	0.3
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.000	0.003	0.000	0.007	0.0	1.6	0.003	0.007	0.9	0.000	0.002	0.000	0.006	0.0	0.4
Fish	0.000	0.000	0.000	0.002	0.0	0.3	0.001	0.003	0.3	0.000	0.001	0.000	0.005	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Vegetables (excluding potatoes)	0.002	0.012	0.012	0.031	100.0	7.8	0.042	0.107	15.0	0.000	0.120	0.000	0.311	0.0	20.8
Potatoes and potato products	0.000	0.037	0.000	0.149	0.0	23.2	0.018	0.045	6.5	0.000	0.078	0.000	0.207	0.0	13.5
Pulses	0.000	0.001	0.000	0.010	0.0	0.7	0.002	0.020	0.7	0.000	0.010	0.000	0.087	0.0	1.7
Fruits	0.000	0.007	0.000	0.020	0.0	4.4	0.024	0.069	8.5	0.001	0.021	0.007	0.060	100.0	3.7
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.1	0.000	0.000	0.000	0.005	0.0	0.0
Edible ices and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.1	0.000	0.016	0.1	0.000	0.000	0.000	0.021	0.0	0.0
Chocolate	0.000	0.001	0.000	0.004	0.0	0.5	0.002	0.009	0.6	0.000	0.002	0.000	0.009	0.0	0.3
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.3	0.001	0.010	0.4	0.000	0.001	0.000	0.011	0.0	0.2
Water	0.000	0.010	0.000	0.050	0.0	6.1	0.018	0.099	6.4	0.000	0.018	0.000	0.099	0.0	3.1
Soft drinks	0.000	0.025	0.000	0.075	0.0	15.7	0.050	0.150	17.8	0.000	0.050	0.000	0.151	0.0	8.6
Alcoholic beverages	0.000	0.000	0.000	0.005	0.0	0.0	0.000	0.009	0.0	0.000	0.000	0.000	0.009	0.0	0.0
Coffee	0.000	0.000	0.000	0.063	0.0	0.1	0.000	0.125	0.1	0.000	0.000	0.000	0.125	0.0	0.0
Other hot beverages	0.000	0.003	0.000	0.029	0.0	2.1	0.007	0.058	2.4	0.000	0.007	0.000	0.058	0.0	1.2
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.3	0.004	0.021	1.4	0.000	0.019	0.000	0.103	0.0	3.3
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.7	0.002	0.018	0.8	0.000	0.011	0.000	0.088	0.0	1.9
Soups and broths	0.000	0.007	0.000	0.041	0.0	4.5	0.014	0.082	5.1	0.000	0.070	0.000	0.406	0.0	12.2
Mixed dishes	0.000	0.006	0.000	0.017	0.0	3.7	0.011	0.034	3.9	0.000	0.054	0.000	0.169	0.0	9.4
Dairy-based desserts	0.000	0.002	0.000	0.007	0.0	1.1	0.002	0.010	0.8	0.000	0.005	0.000	0.015	0.0	0.8
Compotes and cooked fruit	0.000	0.002	0.000	0.011	0.0	1.4	0.005	0.025	1.8	0.000	0.006	0.000	0.031	0.0	1.1
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.3	0.001	0.006	0.4	0.000	0.005	0.000	0.032	0.0	0.8
TOTAL	**0.002**	**0.157**	**0.010**	**0.296**	**100.0**	**100.0**	**0.279**	**0.490**	**100.0**	**0.001**	**0.577**	**0.005**	**0.945**	**100.0**	**100.0**

Table G48: Estimated exposure (mean and P95) in children aged 7 to 10 years to organotins (µg/kg bw/day) and contribution of foods (%)

Food group	Cyhexatin mean (UB)	Cyhexatin P95 (UB)	Cyhexatin contrib (UB)	Fenbutatin oxide mean (UB)	Fenbutatin oxide P95 (UB)	Fenbutatin oxide contrib (UB)	Fentin acetate mean (UB)	Fentin acetate P95 (UB)	Fentin acetate contrib (UB)	Fentin hydroxide mean (UB)	Fentin hydroxide P95 (UB)	Fentin hydroxide contrib (UB)
Bread and dried bread products												
Breakfast cereals												
Pasta												
Rice and wheat products												
Croissant-like pastries												
Sweet and savoury biscuits and bars												
Pastries and cakes												
Milk	0.020	0.052	67.4				0.010	0.026	62.9	0.010	0.026	62.9
Ultra-fresh dairy products	0.002	0.014	5.1	0.001	0.005	16.9	0.001	0.007	4.7	0.001	0.007	4.7
Cheese				0.001	0.003	16.5						
Eggs and egg products	0.002	0.007	6.1				0.001	0.005	7.5	0.001	0.005	7.5
Butter				0.000	0.001	7.8						
Meat												
Poultry and game												
Offal												
Delicatessen meats												
Fish	0.001	0.006	4.8	0.001	0.003	11.8	0.001	0.003	4.4	0.001	0.003	4.4
Crustaceans and molluscs	0.000	0.002	0.3	0.000	0.001	0.8	0.000	0.001	0.3	0.000	0.001	0.3
Vegetables (excluding potatoes)												
Potatoes and potato products												
Pulses												
Fruits												
Dried fruits, nuts and seeds												
Ice creams, sorbets and frozen desserts												
Chocolate												
Sugars and sugar derivatives												
Water	0.001	0.003	4.4	0.001	0.003	21.6	0.001	0.003	8.2	0.001	0.003	8.2
Soft drinks												
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas, quiches and savoury pastries												
Sandwiches and snacks												
Soups and broths												
Mixed dishes												
Dairy-based desserts	0.003	0.014	11.6	0.001	0.006	24.6	0.002	0.008	11.4	0.002	0.008	11.4
Compotes and cooked fruit												
Seasonings and sauces	0.000	0.001	0.4				0.000	0.001	0.5	0.000	0.001	0.5
TOTAL	**0.030**	**0.064**	**100.0**	**0.006**	**0.012**	**100.0**	**0.016**	**0.032**	**100.0**	**0.016**	**0.032**	**100.0**

Table G49: Estimated exposure (mean and P95) in children aged 7 to 10 years to organophosphates (µg/kg bw/day) and contribution of foods (%)

Food group	Azinphos methyl mean (LB)	Azinphos methyl mean (UB)	Azinphos methyl P95 (LB)	Azinphos methyl P95 (UB)	Azinphos methyl contrib (LB)	Azinphos methyl contrib (UB)	Chlorfenvinphos mean (LB)	Chlorfenvinphos mean (UB)	Chlorfenvinphos P95 (LB)	Chlorfenvinphos P95 (UB)	Chlorfenvinphos contrib (LB)	Chlorfenvinphos contrib (UB)
Bread and dried bread products	0.000	0.009	0.000	0.021	0.0	1.885	0.000	0.005	0.000	0.013	0.0	3.8
Breakfast cereals	0.000	0.002	0.000	0.010	0.0	0.498	0.000	0.001	0.000	0.006	0.0	1.0
Pasta	0.000	0.007	0.000	0.018	0.0	1.414	0.000	0.004	0.000	0.011	0.0	2.8
Rice and wheat products	0.000	0.003	0.000	0.012	0.0	0.713	0.000	0.002	0.000	0.007	0.0	1.4
Croissant-like pastries	0.000	0.003	0.000	0.011	0.0	0.597	0.000	0.002	0.000	0.007	0.0	1.2
Sweet and savoury biscuits and bars	0.000	0.004	0.000	0.014	0.0	0.805	0.000	0.002	0.000	0.006	0.0	1.3
Pastries and cakes	0.000	0.006	0.000	0.017	0.0	1.253	0.000	0.004	0.000	0.010	0.0	2.5
Milk	0.000	0.050	0.000	0.130	0.0	10.566	0.000	0.010	0.000	0.026	0.0	7.1
Ultra-fresh dairy products	0.000	0.021	0.000	0.054	0.0	4.331	0.000	0.005	0.000	0.011	0.0	3.3
Cheese	0.000	0.002	0.000	0.005	0.0	0.419	0.000	0.001	0.000	0.003	0.0	0.7
Eggs and egg products	0.000	0.001	0.000	0.005	0.0	0.254	0.000	0.001	0.000	0.002	0.0	0.4
Butter	0.000	0.001	0.000	0.003	0.0	0.197	0.000	0.000	0.000	0.001	0.0	0.3
Meat	0.000	0.004	0.000	0.010	0.0	0.875	0.000	0.002	0.000	0.005	0.0	1.5
Poultry and game	0.000	0.002	0.000	0.007	0.0	0.439	0.000	0.001	0.000	0.003	0.0	0.7
Offal	0.000	0.000	0.000	0.002	0.0	0.014	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.003	0.000	0.007	0.0	0.528	0.000	0.001	0.000	0.004	0.0	0.9
Fish	0.000	0.004	0.000	0.014	0.0	0.745	0.000	0.001	0.000	0.003	0.0	0.5
Crustaceans and molluscs	0.000	0.000	0.000	0.004	0.0	0.049	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.077	0.000	0.194	0.0	16.254	0.000	0.017	0.000	0.043	100.0	12.2
Potatoes and potato products	0.000	0.052	0.000	0.163	0.0	10.944	0.000	0.010	0.000	0.023	0.0	7.0
Pulses	0.000	0.002	0.000	0.019	0.0	0.428	0.000	0.001	0.000	0.010	0.0	0.7
Fruits	0.003	0.024	0.021	0.076	100.0	5.125	0.000	0.011	0.000	0.033	0.0	8.1
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.030	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.012	0.0	0.028	0.000	0.000	0.000	0.007	0.0	0.1
Chocolate	0.000	0.003	0.000	0.018	0.0	0.714	0.000	0.001	0.000	0.004	0.0	0.6
Sugars and sugar derivatives	0.000	0.001	0.000	0.010	0.0	0.217	0.000	0.001	0.000	0.005	0.0	0.4
Water	0.000	0.034	0.000	0.196	0.0	7.272	0.000	0.010	0.000	0.050	0.0	6.8
Soft drinks	0.000	0.098	0.000	0.300	0.0	20.659	0.000	0.025	0.000	0.075	0.0	17.5
Alcoholic beverages	0.000	0.000	0.000	0.018	0.0	0.039	0.000	0.000	0.000	0.005	0.0	0.0
Coffee	0.000	0.001	0.000	0.250	0.0	0.109	0.000	0.000	0.000	0.063	0.0	0.1
Other hot beverages	0.000	0.013	0.000	0.116	0.0	2.836	0.000	0.003	0.000	0.029	0.0	2.4
Pizzas, quiches and savoury pastries	0.000	0.005	0.000	0.021	0.0	0.958	0.000	0.002	0.000	0.010	0.0	1.5
Sandwiches and snacks	0.000	0.002	0.000	0.018	0.0	0.473	0.000	0.001	0.000	0.009	0.0	0.8
Soups and broths	0.000	0.014	0.000	0.082	0.0	2.984	0.000	0.007	0.000	0.041	0.0	5.0
Mixed dishes	0.000	0.013	0.000	0.037	0.0	2.665	0.000	0.006	0.000	0.017	0.0	4.1
Dairy-based desserts	0.000	0.008	0.000	0.034	0.0	1.706	0.000	0.002	0.000	0.007	0.0	1.3
Compotes and cooked fruit	0.000	0.004	0.000	0.018	0.0	0.771	0.000	0.002	0.000	0.011	0.0	1.6
Seasonings and sauces	0.000	0.001	0.000	0.006	0.0	0.209	0.000	0.000	0.000	0.003	0.0	0.3
TOTAL	**0.003**	**0.474**	**0.016**	**0.833**	**100.0**	**100.0**	**0.000**	**0.141**	**0.000**	**0.243**	**100.0**	**100.0**

Food group	Chlorpyrifos ethyl mean (LB)	Chlorpyrifos ethyl mean (UB)	Chlorpyrifos ethyl P95 (LB)	Chlorpyrifos ethyl P95 (UB)	Chlorpyrifos ethyl contrib (LB)	Chlorpyrifos ethyl contrib (UB)	Chlorpyrifos methyl mean (LB)	Chlorpyrifos methyl mean (UB)	Chlorpyrifos methyl P95 (LB)	Chlorpyrifos methyl P95 (UB)	Chlorpyrifos methyl contrib (LB)	Chlorpyrifos methyl contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.013	0.0	3.3	0.004	0.013	0.015	0.033	57.0	7.8
Breakfast cereals	0.000	0.001	0.000	0.006	0.0	0.9	0.000	0.001	0.000	0.006	0.0	0.9
Pasta	0.000	0.004	0.000	0.011	0.0	2.5	0.000	0.004	0.000	0.011	0.0	2.4
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	1.2	0.000	0.002	0.001	0.008	0.8	1.3
Croissant-like pastries	0.000	0.002	0.000	0.007	0.0	1.0	0.001	0.004	0.004	0.017	6.9	2.1
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.006	0.0	1.2	0.002	0.007	0.007	0.027	22.7	4.0
Pastries and cakes	0.000	0.004	0.000	0.010	0.0	2.2	0.000	0.004	0.000	0.010	0.0	2.1
Milk	0.000	0.006	0.000	0.016	0.0	3.7	0.000	0.006	0.000	0.016	0.0	3.6
Ultra-fresh dairy products	0.000	0.003	0.000	0.007	0.0	1.7	0.000	0.003	0.000	0.007	0.0	1.7
Cheese	0.000	0.001	0.000	0.002	0.0	0.4	0.000	0.001	0.000	0.002	0.0	0.4
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Meat	0.000	0.001	0.000	0.003	0.0	0.8	0.000	0.002	0.000	0.005	0.0	1.3
Poultry and game	0.000	0.001	0.000	0.002	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.6
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.001	0.000	0.002	0.4	0.5	0.000	0.001	0.000	0.004	0.0	0.8
Fish	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.000	0.000	0.002	0.0	0.3
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.040	0.001	0.104	1.5	24.3	0.000	0.039	0.000	0.098	0.1	23.4
Potatoes and potato products	0.000	0.010	0.000	0.023	0.0	6.1	0.000	0.010	0.000	0.023	0.0	6.0
Pulses	0.000	0.001	0.000	0.010	0.0	0.6	0.000	0.001	0.003	0.012	1.0	0.7
Fruits	0.010	0.020	0.052	0.079	98.1	12.5	0.000	0.007	0.001	0.022	2.4	4.4
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.0	0.000	0.000	0.000	0.007	0.0	0.0
Chocolate	0.000	0.001	0.000	0.004	0.0	0.5	0.000	0.001	0.000	0.004	0.0	0.5
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.3
Water	0.000	0.010	0.000	0.050	0.0	5.9	0.000	0.010	0.000	0.050	0.0	5.8
Soft drinks	0.000	0.025	0.000	0.075	0.0	15.1	0.000	0.025	0.000	0.075	0.0	14.9
Alcoholic beverages	0.000	0.000	0.000	0.005	0.0	0.0	0.000	0.000	0.000	0.005	0.0	0.0
Coffee	0.000	0.000	0.000	0.063	0.0	0.1	0.000	0.000	0.000	0.063	0.0	0.1
Other hot beverages	0.000	0.003	0.000	0.029	0.0	2.1	0.000	0.003	0.000	0.029	0.0	2.0
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.2	0.000	0.002	0.000	0.010	0.0	1.2
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.7	0.001	0.001	0.006	0.011	6.4	0.9
Soups and broths	0.000	0.007	0.000	0.041	0.0	4.3	0.000	0.007	0.000	0.041	0.0	4.3
Mixed dishes	0.000	0.006	0.000	0.017	0.0	3.4	0.000	0.006	0.002	0.017	2.6	3.4
Dairy-based desserts	0.000	0.001	0.000	0.004	0.0	0.7	0.000	0.001	0.000	0.004	0.0	0.7
Compotes and cooked fruit	0.000	0.002	0.000	0.011	0.0	1.3	0.000	0.002	0.000	0.011	0.0	1.3
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.3	0.000	0.000	0.000	0.003	0.0	0.3
TOTAL	**0.010**	**0.163**	**0.041**	**0.285**	**100.0**	**100.0**	**0.008**	**0.166**	**0.020**	**0.277**	**100.0**	**100.0**

Food group	Diazinon mean (LB)	Diazinon mean (UB)	Diazinon P95 (LB)	Diazinon P95 (UB)	Diazinon contrib (LB)	Diazinon contrib (UB)	Dichlorvos mean (LB)	Dichlorvos mean (UB)	Dichlorvos P95 (LB)	Dichlorvos P95 (UB)	Dichlorvos contrib (LB)	Dichlorvos contrib (UB)
Bread and dried bread products	0.000	0.013	0.000	0.029	0.0	6.9	0.000	0.009	0.000	0.021	0.0	2.4
Breakfast cereals	0.000	0.003	0.000	0.014	0.0	1.8	0.000	0.002	0.000	0.010	0.0	0.6
Pasta	0.000	0.009	0.000	0.025	0.0	5.2	0.000	0.007	0.000	0.018	0.0	1.8
Rice and wheat products	0.000	0.005	0.000	0.016	0.0	2.6	0.000	0.003	0.000	0.012	0.0	0.9
Croissant-like pastries	0.000	0.004	0.000	0.016	0.0	2.2	0.000	0.003	0.000	0.011	0.0	0.7
Sweet and savoury biscuits and bars	0.000	0.004	0.000	0.014	0.0	2.3	0.000	0.004	0.000	0.017	0.0	1.2
Pastries and cakes	0.000	0.008	0.000	0.024	0.0	4.6	0.000	0.006	0.000	0.017	0.0	1.6
Milk	0.000	0.010	0.000	0.026	0.0	5.6	0.000	0.010	0.000	0.026	0.0	2.7
Ultra-fresh dairy products	0.000	0.006	0.000	0.015	0.0	3.2	0.000	0.001	0.000	0.007	0.0	0.2
Cheese	0.000	0.002	0.000	0.005	0.0	1.1						
Eggs and egg products	0.000	0.001	0.000	0.005	0.0	0.7						
Butter	0.000	0.001	0.000	0.003	0.0	0.5						
Meat	0.000	0.004	0.000	0.010	0.0	2.3						
Poultry and game	0.000	0.002	0.000	0.007	0.0	1.2						
Offal	0.000	0.000	0.000	0.002	0.0	0.0						
Delicatessen meats	0.000	0.003	0.000	0.008	100.0	1.4						
Fish	0.000	0.001	0.000	0.003	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.020	0.000	0.046	0.0	11.0	0.000	0.080	0.000	0.209	0.0	21.1
Potatoes and potato products	0.000	0.012	0.000	0.034	0.0	6.8	0.000	0.044	0.000	0.110	0.0	11.7
Pulses	0.000	0.001	0.000	0.011	0.0	0.6	0.000	0.006	0.000	0.053	0.0	1.6
Fruits	0.000	0.007	0.000	0.021	0.0	3.9	0.000	0.023	0.001	0.066	100.0	6.0
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.016	0.0	0.1	0.000	0.000	0.000	0.012	0.0	0.0
Chocolate	0.000	0.001	0.000	0.004	0.0	0.5	0.000	0.002	0.000	0.009	0.0	0.4
Sugars and sugar derivatives	0.000	0.001	0.000	0.008	0.0	0.6	0.000	0.001	0.000	0.009	0.0	0.2
Water	0.000	0.010	0.000	0.050	0.0	5.3	0.000	0.018	0.000	0.099	0.0	4.7
Soft drinks	0.000	0.025	0.000	0.076	0.0	14.0	0.000	0.049	0.000	0.150	0.0	13.0
Alcoholic beverages	0.000	0.000	0.000	0.005	0.0	0.0	0.000	0.000	0.000	0.009	0.0	0.0
Coffee	0.000	0.000	0.000	0.063	0.0	0.1	0.000	0.000	0.000	0.125	0.0	0.1
Other hot beverages	0.000	0.003	0.000	0.029	0.0	1.9	0.000	0.007	0.000	0.058	0.0	1.8
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.013	0.0	1.1	0.000	0.012	0.000	0.079	0.0	3.1
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.6	0.000	0.007	0.000	0.053	0.0	1.8
Soups and broths	0.000	0.007	0.000	0.041	0.0	3.9	0.000	0.042	0.000	0.245	0.0	11.2
Mixed dishes	0.000	0.006	0.000	0.017	0.0	3.2	0.000	0.032	0.000	0.102	0.0	8.6
Dairy-based desserts	0.000	0.002	0.000	0.010	0.0	1.1	0.000	0.003	0.000	0.008	0.0	0.7
Compotes and cooked fruit	0.000	0.005	0.000	0.025	0.0	2.8	0.000	0.004	0.000	0.018	0.0	1.0
Seasonings and sauces	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.003	0.000	0.019	0.0	0.7
TOTAL	**0.000**	**0.180**	**0.000**	**0.308**	**100.0**	**100.0**	**0.000**	**0.377**	**0.000**	**0.620**	**100.0**	**100.0**

Food group	Dimethoate mean (LB)	Dimethoate mean (UB)	Dimethoate P95 (LB)	Dimethoate P95 (UB)	Dimethoate contrib (LB)	Dimethoate contrib (UB)	Disulfoton mean (UB)	Disulfoton P95 (UB)	Disulfoton contrib (UB)	Ethion mean (LB)	Ethion mean (UB)	Ethion P95 (LB)	Ethion P95 (UB)	Ethion contrib (LB)	Ethion contrib (UB)
Bread and dried bread products	0.000	0.062	0.000	0.147	0.0	4.8				0.000	0.009	0.000	0.021	0.0	5.9
Breakfast cereals	0.000	0.017	0.000	0.068	0.0	1.3				0.000	0.002	0.000	0.010	0.0	1.6
Pasta	0.000	0.047	0.000	0.127	0.0	3.6				0.000	0.007	0.000	0.018	0.0	4.4
Rice and wheat products	0.000	0.024	0.000	0.081	0.0	1.8				0.000	0.003	0.000	0.012	0.0	2.2
Croissant-like pastries	0.000	0.020	0.000	0.079	0.0	1.5				0.000	0.003	0.000	0.011	0.0	1.9
Sweet and savoury biscuits and bars	0.000	0.022	0.000	0.070	0.0	1.7				0.000	0.003	0.000	0.010	0.0	2.0
Pastries and cakes	0.000	0.042	0.000	0.121	0.0	3.2				0.000	0.006	0.000	0.017	0.0	3.9
Milk	0.000	0.040	0.000	0.104	0.0	3.1				0.000	0.010	0.000	0.026	0.0	6.6
Ultra-fresh dairy products	0.000	0.019	0.000	0.046	0.0	1.5	0.029	0.090	18.2	0.000	0.005	0.000	0.011	0.0	3.1
Cheese	0.000	0.004	0.000	0.011	0.0	0.3				0.000	0.001	0.000	0.003	0.0	0.7
Eggs and egg products	0.000	0.002	0.000	0.010	0.0	0.2				0.000	0.001	0.000	0.002	0.0	0.4
Butter	0.000	0.002	0.000	0.005	0.0	0.1				0.000	0.000	0.000	0.001	0.0	0.3
Meat	0.000	0.008	0.000	0.019	0.0	0.6				0.000	0.002	0.000	0.005	0.0	1.4
Poultry and game	0.000	0.004	0.000	0.014	0.0	0.3				0.000	0.001	0.000	0.003	0.0	0.7
Offal	0.000	0.000	0.000	0.005	0.0	0.0				0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.005	0.000	0.015	0.0	0.4				0.000	0.001	0.001	0.004	2.1	0.9
Fish	0.000	0.003	0.000	0.011	0.0	0.2				0.000	0.001	0.000	0.003	0.0	0.5
Crustaceans and molluscs	0.000	0.000	0.000	0.004	0.0	0.0				0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.129	0.000	0.313	0.8	9.9	0.029	0.075	17.9	0.000	0.011	0.000	0.027	0.0	7.5
Potatoes and potato products	0.000	0.092	0.000	0.359	0.0	7.1				0.000	0.012	0.000	0.034	0.0	8.1
Pulses	0.000	0.005	0.000	0.053	0.0	0.4				0.000	0.001	0.000	0.011	0.0	0.7
Fruits	0.029	0.107	0.070	0.279	99.2	8.2	0.023	0.066	14.0	0.000	0.007	0.000	0.021	0.7	4.7
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.020	0.0	0.1				0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.081	0.0	0.1				0.000	0.000	0.000	0.012	0.0	0.1
Chocolate	0.000	0.012	0.000	0.061	0.0	0.9	0.002	0.009	1.0	0.000	0.001	0.000	0.004	0.0	0.6
Sugars and sugar derivatives	0.000	0.006	0.000	0.064	0.0	0.5	0.000	0.009	0.1	0.000	0.001	0.000	0.006	0.0	0.5
Water	0.000	0.121	0.000	0.688	0.0	9.3	0.018	0.099	11.1	0.000	0.010	0.000	0.050	0.0	6.3
Soft drinks	0.000	0.345	0.000	1.052	0.0	26.5	0.049	0.151	30.1	0.000	0.025	0.000	0.075	0.0	16.5
Alcoholic beverages	0.000	0.001	0.000	0.065	0.0	0.0	0.000	0.009	0.1	0.000	0.000	0.000	0.005	0.0	0.0
Coffee	0.000	0.002	0.000	0.875	0.0	0.1	0.000	0.125	0.2	0.000	0.000	0.000	0.063	0.0	0.1
Other hot beverages	0.000	0.047	0.000	0.406	0.0	3.6	0.007	0.058	4.2	0.000	0.003	0.000	0.029	0.0	2.2
Pizzas, quiches and savoury pastries	0.000	0.009	0.000	0.048	0.0	0.7	0.001	0.023	0.9	0.000	0.002	0.000	0.010	0.0	1.4
Sandwiches and snacks	0.000	0.005	0.000	0.041	0.0	0.4				0.000	0.001	0.000	0.009	0.0	0.7
Soups and broths	0.000	0.033	0.000	0.188	0.0	2.5				0.003	0.010	0.028	0.073	97.2	6.3
Mixed dishes	0.000	0.028	0.000	0.083	0.0	2.1	0.004	0.026	2.3	0.000	0.006	0.000	0.017	0.0	3.8
Dairy-based desserts	0.000	0.007	0.000	0.028	0.0	0.6				0.000	0.002	0.000	0.007	0.0	1.2
Compotes and cooked fruit	0.000	0.026	0.000	0.124	0.0	2.0				0.000	0.004	0.000	0.018	0.0	2.4
Seasonings and sauces	0.000	0.002	0.000	0.015	0.0	0.2				0.000	0.000	0.000	0.003	0.0	0.3
TOTAL	**0.029**	**1.299**	**0.025**	**2.548**	**100.0**	**100.0**	**0.161**	**0.343**	**100.0**	**0.003**	**0.151**	**0.005**	**0.259**	**100.0**	**100.0**

Food group	Fenitrothion mean (LB)	Fenitrothion mean (UB)	Fenitrothion P95 (UB)	Fenitrothion contrib (LB)	Fenitrothion contrib (UB)	Fenthion mean (UB)	Fenthion P95 (UB)	Fenthion contrib (UB)	Malathion mean (LB)	Malathion mean (UB)	Malathion P95 (LB)	Malathion P95 (UB)
Bread and dried bread products	0.000	0.009	0.021	0.0	5.1	0.009	0.021	2.8	0.000	0.005	0.000	0.013
Breakfast cereals	0.000	0.002	0.010	0.0	1.4	0.002	0.010	0.8	0.000	0.001	0.000	0.006
Pasta	0.000	0.007	0.018	0.0	3.9	0.007	0.018	2.1	0.000	0.004	0.000	0.011
Rice and wheat products	0.000	0.003	0.012	0.0	1.9	0.003	0.012	1.1	0.000	0.002	0.000	0.007
Croissant-like pastries	0.000	0.003	0.011	0.0	1.6	0.003	0.011	0.9	0.000	0.002	0.000	0.007
Sweet and savoury biscuits and bars	0.000	0.003	0.010	0.0	1.7	0.003	0.010	1.0	0.000	0.002	0.000	0.006
Pastries and cakes	0.000	0.006	0.017	0.0	3.4	0.006	0.017	1.9	0.000	0.004	0.000	0.010
Milk	0.000	0.006	0.016	0.0	3.5	0.030	0.078	9.6	0.000	0.010	0.000	0.026
Ultra-fresh dairy products	0.000	0.003	0.008	0.0	1.9	0.021	0.052	6.7	0.000	0.006	0.000	0.015
Cheese	0.000	0.001	0.003	0.0	0.6	0.004	0.011	1.3	0.000	0.002	0.000	0.005
Eggs and egg products	0.000	0.001	0.005	0.0	0.7	0.004	0.014	1.1	0.000	0.001	0.000	0.005
Butter	0.000	0.000	0.001	0.0	0.3	0.002	0.005	0.6	0.000	0.001	0.000	0.003
Meat	0.000	0.002	0.005	0.0	1.2	0.010	0.026	3.3	0.000	0.004	0.000	0.010
Poultry and game	0.000	0.001	0.003	0.0	0.6	0.005	0.017	1.7	0.000	0.002	0.000	0.007
Offal	0.000	0.000	0.001	0.0	0.0	0.000	0.006	0.1	0.000	0.000	0.000	0.002
Delicatessen meats	0.000	0.001	0.004	0.0	0.7	0.006	0.018	2.0	0.000	0.003	0.000	0.007
Fish	0.000	0.000	0.002	0.0	0.2	0.002	0.009	0.7	0.000	0.001	0.000	0.003
Crustaceans and molluscs	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.000	0.040	0.101	100.0	23.2	0.033	0.084	10.6	0.000	0.025	0.000	0.064
Potatoes and potato products	0.000	0.010	0.023	0.0	5.7	0.019	0.072	6.1	0.000	0.018	0.000	0.044
Pulses	0.000	0.001	0.011	0.0	0.6	0.001	0.011	0.3	0.000	0.002	0.000	0.018
Fruits	0.000	0.011	0.034	0.0	6.6	0.034	0.100	10.9	0.000	0.018	0.000	0.053
Dried fruits, nuts and seeds	0.000	0.000	0.003	0.0	0.1	0.000	0.003	0.0	0.000	0.000	0.000	0.002
Ice creams, sorbets and frozen desserts	0.000	0.000	0.012	0.0	0.1	0.000	0.012	0.0	0.000	0.000	0.000	0.007
Chocolate	0.000	0.001	0.004	0.0	0.5	0.002	0.009	0.5	0.000	0.002	0.000	0.009
Sugars and sugar derivatives	0.000	0.001	0.006	0.0	0.5	0.001	0.009	0.3	0.000	0.001	0.000	0.006
Water	0.000	0.010	0.050	0.0	5.5	0.018	0.099	5.7	0.000	0.018	0.000	0.099
Soft drinks	0.000	0.025	0.075	0.0	14.3	0.049	0.150	15.7	0.000	0.049	0.000	0.150
Alcoholic beverages	0.000	0.000	0.005	0.0	0.0	0.000	0.009	0.0	0.000	0.000	0.000	0.009
Coffee	0.000	0.000	0.063	0.0	0.1	0.000	0.125	0.1	0.000	0.000	0.000	0.125
Other hot beverages	0.000	0.003	0.029	0.0	1.9	0.007	0.058	2.1	0.000	0.007	0.000	0.058
Pizzas, quiches and savoury pastries	0.000	0.002	0.010	0.0	1.2	0.003	0.015	0.8	0.000	0.004	0.000	0.021
Sandwiches and snacks	0.000	0.001	0.009	0.0	0.6	0.001	0.009	0.4	0.000	0.002	0.000	0.018
Soups and broths	0.000	0.007	0.041	0.0	4.1	0.007	0.041	2.3	0.000	0.014	0.000	0.082
Mixed dishes	0.000	0.006	0.017	0.0	3.2	0.007	0.021	2.3	0.000	0.011	0.003	0.034
Dairy-based desserts	0.000	0.001	0.006	0.0	0.8	0.009	0.034	2.7	0.000	0.002	0.000	0.010
Compotes and cooked fruit	0.000	0.004	0.018	0.0	2.1	0.004	0.018	1.2	0.000	0.002	0.000	0.011
Seasonings and sauces	0.000	0.001	0.003	0.0	0.3	0.001	0.004	0.2	0.000	0.001	0.000	0.006
TOTAL	**0.000**	**0.174**	**0.297**	**100.0**	**100.0**	**0.313**	**0.554**	**100.0**	**0.000**	**0.226**	**0.002**	**0.412**

Food group	Malathion contrib (LB)	Malathion contrib (UB)	Methidathion mean (UB)	Methidathion P95 (UB)	Methidathion contrib (UB)	Mevinphos mean (UB)	Mevinphos P95 (UB)	Mevinphos contrib (UB)	Monocrotophos mean (UB)	Monocrotophos P95 (UB)	Monocrotophos contrib (UB)
Bread and dried bread products	0.0	2.4	0.009	0.021	3.0	0.009	0.021	4.289	0.009	0.021	2.8
Breakfast cereals	0.0	0.6	0.002	0.010	0.8	0.002	0.010	1.133	0.002	0.010	0.7
Pasta	0.0	1.8	0.007	0.018	2.2	0.007	0.018	3.218	0.007	0.018	2.1
Rice and wheat products	0.0	0.9	0.003	0.012	1.1	0.003	0.012	1.621	0.003	0.012	1.1
Croissant-like pastries	0.0	0.8	0.003	0.011	0.9	0.003	0.011	1.359	0.003	0.011	0.9
Sweet and savoury biscuits and bars	0.0	0.8	0.003	0.011	1.2	0.003	0.010	1.405	0.003	0.010	1.0
Pastries and cakes	0.0	1.6	0.006	0.017	2.0	0.006	0.017	2.852	0.006	0.017	1.9
Milk	0.0	4.4	0.010	0.026	3.3	0.010	0.026	4.809	0.010	0.026	3.1
Ultra-fresh dairy products	0.0	2.5	0.006	0.015	1.9	0.005	0.011	2.263	0.005	0.011	1.5
Cheese	0.0	0.9	0.002	0.005	0.7	0.001	0.003	0.477	0.001	0.003	0.3
Eggs and egg products	0.0	0.5	0.001	0.005	0.4	0.001	0.002	0.288	0.001	0.002	0.2
Butter	0.0	0.4	0.001	0.003	0.3	0.000	0.001	0.224	0.000	0.001	0.1
Meat	0.0	1.8	0.004	0.010	1.4	0.002	0.005	0.934	0.002	0.005	0.6
Poultry and game	0.0	0.9	0.002	0.007	0.7	0.001	0.003	0.499	0.001	0.003	0.3
Offal	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.016	0.000	0.001	0.0
Delicatessen meats	0.0	1.1	0.003	0.007	0.8	0.001	0.004	0.601	0.001	0.004	0.4
Fish	0.0	0.3	0.001	0.003	0.2	0.001	0.003	0.339	0.001	0.003	0.2
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.022	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.0	11.2	0.021	0.054	7.1	0.033	0.084	15.851	0.034	0.086	10.6
Potatoes and potato products	0.0	7.9	0.037	0.087	12.2	0.009	0.021	4.210	0.015	0.036	4.8
Pulses	0.0	0.9	0.005	0.044	1.6	0.001	0.011	0.509	0.002	0.019	0.6
Fruits	0.0	8.1	0.011	0.034	3.8	0.011	0.034	5.518	0.023	0.066	7.2
Dried fruits, nuts and seeds	0.0	0.0	0.000	0.003	0.0	0.000	0.003	0.067	0.000	0.003	0.0
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.012	0.0	0.000	0.012	0.065	0.000	0.012	0.0
Chocolate	0.0	0.7	0.002	0.009	0.6	0.002	0.009	0.812	0.003	0.018	1.1
Sugars and sugar derivatives	0.0	0.3	0.001	0.009	0.3	0.001	0.009	0.421	0.001	0.010	0.3
Water	0.0	7.9	0.018	0.099	5.9	0.018	0.099	8.585	0.034	0.196	10.8
Soft drinks	0.0	21.7	0.049	0.150	16.4	0.049	0.150	23.661	0.098	0.300	30.8
Alcoholic beverages	0.0	0.0	0.000	0.009	0.0	0.000	0.009	0.044	0.000	0.018	0.1
Coffee	0.0	0.1	0.000	0.125	0.1	0.000	0.125	0.124	0.001	0.250	0.2
Other hot beverages	0.0	3.0	0.007	0.058	2.2	0.007	0.058	3.226	0.013	0.116	4.2
Pizzas, quiches and savoury pastries	0.0	1.8	0.010	0.052	3.2	0.002	0.010	0.990	0.004	0.021	1.3
Sandwiches and snacks	0.0	1.0	0.006	0.044	1.9	0.001	0.009	0.538	0.002	0.018	0.7
Soups and broths	0.0	6.3	0.035	0.205	11.7	0.007	0.041	3.395	0.014	0.082	4.4
Mixed dishes	100.0	4.9	0.027	0.085	9.0	0.006	0.017	2.764	0.011	0.034	3.5
Dairy-based desserts	0.0	1.0	0.003	0.010	0.9	0.002	0.007	0.880	0.002	0.007	0.6
Compotes and cooked fruit	0.0	1.0	0.004	0.018	1.2	0.004	0.018	1.754	0.004	0.018	1.1
Seasonings and sauces	0.0	0.4	0.002	0.016	0.8	0.000	0.003	0.237	0.001	0.006	0.3
TOTAL	**100.0**	**100.0**	**0.301**	**0.507**	**100.0**	**0.208**	**0.378**	**100.0**	**0.318**	**0.679**	**100.0**

Food group	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion mean (UB)	Parathion P95 (UB)	Parathion contrib (UB)	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)
Bread and dried bread products							0.036	0.084	7.2	0.179	0.421	15.4
Breakfast cereals							0.009	0.039	1.9	0.047	0.194	4.1
Pasta							0.027	0.073	5.4	0.134	0.364	11.6
Rice and wheat products							0.014	0.046	2.7	0.067	0.231	5.8
Croissant-like pastries							0.011	0.045	2.3	0.057	0.224	4.9
Sweet and savoury biscuits and bars				0.000	0.005	0.4	0.011	0.040	2.3	0.055	0.200	4.7
Pastries and cakes							0.024	0.069	4.8	0.119	0.346	10.2
Milk				0.022	0.057	20.9	0.017	0.043	3.3	0.029	0.075	2.5
Ultra-fresh dairy products				0.010	0.025	9.8	0.022	0.063	4.4	0.021	0.060	1.8
Cheese				0.002	0.006	2.1	0.012	0.033	2.5	0.010	0.028	0.9
Eggs and egg products				0.001	0.005	1.3	0.008	0.030	1.5	0.007	0.030	0.6
Butter				0.001	0.003	1.0	0.006	0.017	1.2	0.005	0.014	0.4
Meat				0.004	0.010	4.1	0.026	0.065	5.2	0.026	0.064	2.2
Poultry and game				0.002	0.008	2.2	0.013	0.043	2.6	0.013	0.043	1.1
Offal				0.000	0.003	0.1	0.000	0.015	0.1	0.000	0.015	0.0
Delicatessen meats				0.003	0.008	2.6	0.016	0.046	3.2	0.016	0.045	1.3
Fish				0.002	0.006	1.5	0.001	0.005	0.2	0.002	0.008	0.2
Crustaceans and molluscs				0.000	0.002	0.1	0.000	0.001	0.0	0.000	0.003	0.0
Vegetables (excluding potatoes)	0.029	0.075	94.7	0.001	0.016	1.4	0.074	0.183	14.9	0.080	0.202	6.9
Potatoes and potato products				0.015	0.036	14.5	0.020	0.046	4.0			
Pulses				0.002	0.018	1.8	0.002	0.025	0.5	0.002	0.122	0.2
Fruits							0.012	0.036	2.4	0.027	0.082	2.3
Dried fruits, nuts and seeds							0.001	0.011	0.1	0.003	0.057	0.2
Ice creams, sorbets and frozen desserts							0.001	0.046	0.1	0.003	0.231	0.2
Chocolate							0.002	0.009	0.3	0.003	0.018	0.3
Sugars and sugar derivatives							0.003	0.024	0.6	0.015	0.120	1.3
Water	0.001	0.003	4.2	0.001	0.003	1.2	0.018	0.099	3.6	0.034	0.196	3.0
Soft drinks							0.051	0.151	10.3	0.110	0.318	9.5
Alcoholic beverages							0.000	0.009	0.0	0.000	0.018	0.0
Coffee							0.000	0.125	0.1	0.001	0.250	0.0
Other hot beverages							0.007	0.058	1.3	0.013	0.116	1.2
Pizzas, quiches and savoury pastries				0.004	0.021	3.9	0.004	0.021	0.8	0.000	0.007	0.0
Sandwiches and snacks				0.002	0.018	2.1	0.002	0.018	0.4			
Soups and broths				0.014	0.082	13.4	0.014	0.082	2.8			
Mixed dishes				0.012	0.034	11.0	0.012	0.034	2.4	0.001	0.007	0.1
Dairy-based desserts				0.004	0.015	3.8	0.007	0.032	1.3	0.006	0.031	0.6
Compotes and cooked fruit							0.015	0.071	2.9	0.073	0.354	6.3
Seasonings and sauces				0.001	0.006	0.9	0.001	0.007	0.3	0.001	0.006	0.0
TOTAL	**0.031**	**0.076**	**100.0**	**0.105**	**0.181**	**100.0**	**0.498**	**0.823**	**100.0**	**1.160**	**2.007**	**100.0**

Food group	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion mean (UB)	Parathion P95 (UB)	Parathion contrib (UB)	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)
Bread and dried bread products							0.036	0.084	7.2	0.179	0.421	15.4
Breakfast cereals							0.009	0.039	1.9	0.047	0.194	4.1
Pasta							0.027	0.073	5.4	0.134	0.364	11.6
Rice and wheat products							0.014	0.046	2.7	0.067	0.231	5.8
Croissant-like pastries							0.011	0.045	2.3	0.057	0.224	4.9
Sweet and savoury biscuits and bars				0.000	0.005	0.4	0.011	0.040	2.3	0.055	0.200	4.7
Pastries and cakes							0.024	0.069	4.8	0.119	0.346	10.2
Milk				0.022	0.057	20.9	0.017	0.043	3.3	0.029	0.075	2.5
Ultra-fresh dairy products				0.010	0.025	9.8	0.022	0.063	4.4	0.021	0.060	1.8
Cheese				0.002	0.006	2.1	0.012	0.033	2.5	0.010	0.028	0.9
Eggs and egg products				0.001	0.005	1.3	0.008	0.030	1.5	0.007	0.030	0.6
Butter				0.001	0.003	1.0	0.006	0.017	1.2	0.005	0.014	0.4
Meat				0.004	0.010	4.1	0.026	0.065	5.2	0.026	0.064	2.2
Poultry and game				0.002	0.008	2.2	0.013	0.043	2.6	0.013	0.043	1.1
Offal				0.000	0.003	0.1	0.000	0.015	0.1	0.000	0.015	0.0
Delicatessen meats				0.003	0.008	2.6	0.016	0.046	3.2	0.016	0.045	1.3
Fish				0.002	0.006	1.5	0.001	0.005	0.2	0.002	0.008	0.2
Crustaceans and molluscs				0.000	0.002	0.1	0.000	0.001	0.0	0.000	0.003	0.0
Vegetables (excluding potatoes)	0.029	0.075	94.7	0.001	0.016	1.4	0.074	0.183	14.9	0.080	0.202	6.9
Potatoes and potato products				0.015	0.036	14.5	0.020	0.046	4.0			
Pulses				0.002	0.018	1.8	0.002	0.025	0.5	0.002	0.122	0.2
Fruits							0.012	0.036	2.4	0.027	0.082	2.3
Dried fruits, nuts and seeds							0.001	0.011	0.1	0.003	0.057	0.2
Ice creams, sorbets and frozen desserts							0.001	0.046	0.1	0.003	0.231	0.2
Chocolate							0.002	0.009	0.3	0.003	0.018	0.3
Sugars and sugar derivatives							0.003	0.024	0.6	0.015	0.120	1.3
Water	0.001	0.003	4.2	0.001	0.003	1.2	0.018	0.099	3.6	0.034	0.196	3.0
Soft drinks							0.051	0.151	10.3	0.110	0.318	9.5
Alcoholic beverages							0.000	0.009	0.0	0.000	0.018	0.0
Coffee							0.000	0.125	0.1	0.001	0.250	0.0
Other hot beverages							0.007	0.058	1.3	0.013	0.116	1.2
Pizzas, quiches and savoury pastries				0.004	0.021	3.9	0.004	0.021	0.8	0.000	0.007	0.0
Sandwiches and snacks				0.002	0.018	2.1	0.002	0.018	0.4			
Soups and broths				0.014	0.082	13.4	0.014	0.082	2.8			
Mixed dishes				0.012	0.034	11.0	0.012	0.034	2.4	0.001	0.007	0.1
Dairy-based desserts				0.004	0.015	3.8	0.007	0.032	1.3	0.006	0.031	0.6
Compotes and cooked fruit							0.015	0.071	2.9	0.073	0.354	6.3
Seasonings and sauces				0.001	0.006	0.9	0.001	0.007	0.3	0.001	0.006	0.0
TOTAL	**0.031**	**0.076**	**100.0**	**0.105**	**0.181**	**100.0**	**0.498**	**0.823**	**100.0**	**1.160**	**2.007**	**100.0**

Food group	Phosalone mean (LB)	Phosalone mean (UB)	Phosalone P95 (LB)	Phosalone P95 (UB)	Phosalone contrib (LB)	Phosalone contrib (UB)	Phosmet mean (LB)	Phosmet mean (UB)	Phosmet P95 (LB)	Phosmet P95 (UB)	Phosmet contrib (LB)	Phosmet contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.013	0.0	2.1	0.000	0.009	0.000	0.021	0.0	3.6
Breakfast cereals	0.000	0.001	0.000	0.006	0.0	0.6	0.000	0.002	0.000	0.010	0.0	0.9
Pasta	0.000	0.004	0.000	0.011	0.0	1.6	0.000	0.007	0.000	0.018	0.0	2.7
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	0.8	0.000	0.003	0.000	0.012	0.0	1.4
Croissant-like pastries	0.000	0.002	0.000	0.007	0.0	0.7	0.000	0.003	0.000	0.011	0.0	1.1
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.007	0.0	0.8	0.000	0.003	0.000	0.010	0.0	1.2
Pastries and cakes	0.000	0.004	0.000	0.010	0.0	1.4	0.000	0.006	0.000	0.017	0.0	2.4
Milk	0.000	0.010	0.000	0.026	0.0	4.0	0.000	0.020	0.000	0.052	0.0	8.0
Ultra-fresh dairy products	0.000	0.006	0.000	0.015	0.0	2.3	0.000	0.011	0.000	0.030	0.0	4.6
Cheese	0.000	0.002	0.000	0.005	0.0	0.8	0.000	0.004	0.000	0.011	0.0	1.6
Eggs and egg products	0.000	0.001	0.000	0.005	0.0	0.5	0.000	0.002	0.000	0.010	0.0	1.0
Butter	0.000	0.001	0.000	0.003	0.0	0.4	0.000	0.002	0.000	0.005	0.0	0.7
Meat	0.000	0.004	0.000	0.010	0.0	1.7	0.000	0.008	0.000	0.021	0.0	3.3
Poultry and game	0.000	0.002	0.000	0.007	0.0	0.8	0.000	0.004	0.000	0.014	0.0	1.7
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.005	0.0	0.1
Delicatessen meats	0.000	0.003	0.000	0.007	0.4	1.0	0.000	0.005	0.000	0.015	0.0	2.0
Fish	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.006	0.0	0.6
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.040	0.000	0.104	0.0	15.9	0.000	0.012	0.000	0.029	0.0	4.8
Potatoes and potato products	0.000	0.019	0.000	0.045	0.0	7.5	0.000	0.012	0.000	0.034	0.0	4.9
Pulses	0.000	0.002	0.000	0.018	0.0	0.8	0.000	0.002	0.000	0.019	0.0	0.8
Fruits	0.006	0.026	0.042	0.085	99.6	10.6	0.004	0.025	0.023	0.072	100.0	9.8
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.0	0.000	0.000	0.000	0.012	0.0	0.1
Chocolate	0.000	0.002	0.000	0.009	0.0	0.7	0.000	0.002	0.000	0.009	0.0	0.7
Sugars and sugar derivatives	0.000	0.001	0.000	0.006	0.0	0.2	0.000	0.001	0.000	0.009	0.0	0.4
Water	0.000	0.018	0.000	0.099	0.0	7.2	0.000	0.018	0.000	0.099	0.0	7.2
Soft drinks	0.000	0.049	0.000	0.150	0.0	19.7	0.000	0.049	0.000	0.150	0.0	19.7
Alcoholic beverages	0.000	0.000	0.000	0.009	0.0	0.0	0.000	0.000	0.000	0.009	0.0	0.0
Coffee	0.000	0.000	0.000	0.125	0.0	0.1	0.000	0.000	0.000	0.125	0.0	0.1
Other hot beverages	0.000	0.007	0.000	0.058	0.0	2.7	0.000	0.007	0.000	0.058	0.0	2.7
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.021	0.0	1.6	0.000	0.002	0.000	0.010	0.0	0.9
Sandwiches and snacks	0.000	0.002	0.000	0.018	0.0	0.9	0.000	0.001	0.000	0.009	0.0	0.4
Soups and broths	0.000	0.014	0.000	0.082	0.0	5.7	0.000	0.012	0.000	0.078	0.0	4.9
Mixed dishes	0.000	0.011	0.000	0.034	0.0	4.4	0.000	0.006	0.000	0.018	0.0	2.5
Dairy-based desserts	0.000	0.002	0.000	0.010	0.0	0.9	0.000	0.004	0.000	0.020	0.0	1.5
Compotes and cooked fruit	0.000	0.002	0.000	0.011	0.0	0.9	0.000	0.004	0.000	0.018	0.0	1.5
Seasonings and sauces	0.000	0.001	0.000	0.006	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.2
TOTAL	**0.006**	**0.249**	**0.035**	**0.460**	**100.0**	**100.0**	**0.004**	**0.250**	**0.021**	**0.444**	**100.0**	**100.0**

Food group	Phosphamidon mean (UB)	Phosphamidon P95 (UB)	Phosphamidon contrib (UB)	Pyrimiphos methyl mean (LB)	Pyrimiphos methyl mean (UB)	Pyrimiphos methyl P95 (LB)	Pyrimiphos methyl P95 (UB)	Pyrimiphos methyl contrib (LB)	Pyrimiphos methyl contrib (UB)	Quinalphos mean (UB)	Quinalphos P95 (UB)	Quinalphos contrib (UB)
Bread and dried bread products	0.013	0.029	6.0	0.049	0.049	0.139	0.139	37.2	14.9	0.013	0.029	3.6
Breakfast cereals	0.003	0.014	1.6	0.002	0.009	0.011	0.040	1.8	2.6	0.003	0.014	1.0
Pasta	0.009	0.025	4.5	0.014	0.028	0.036	0.075	10.5	8.5	0.009	0.025	2.7
Rice and wheat products	0.005	0.016	2.3	0.010	0.011	0.034	0.040	7.7	3.5	0.005	0.016	1.4
Croissant-like pastries	0.004	0.016	1.9	0.017	0.019	0.066	0.075	13.1	5.8	0.004	0.016	1.1
Sweet and savoury biscuits and bars	0.004	0.014	1.8	0.016	0.022	0.068	0.087	12.3	6.8	0.005	0.015	1.3
Pastries and cakes	0.008	0.024	4.0	0.009	0.018	0.036	0.053	7.1	5.4	0.008	0.024	2.4
Milk	0.010	0.026	4.8	0.000	0.020	0.000	0.052	0.0	6.1	0.020	0.052	5.8
Ultra-fresh dairy products	0.005	0.011	2.3	0.001	0.009	0.009	0.023	1.0	2.8	0.011	0.030	3.3
Cheese	0.001	0.003	0.5	0.000	0.001	0.000	0.003	0.0	0.3	0.004	0.011	1.1
Eggs and egg products	0.001	0.002	0.3	0.000	0.001	0.000	0.005	0.0	0.4	0.002	0.010	0.7
Butter	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0	0.1	0.002	0.005	0.5
Meat	0.002	0.005	0.9	0.000	0.004	0.000	0.010	0.0	1.3	0.004	0.010	1.2
Poultry and game	0.001	0.003	0.5	0.000	0.002	0.000	0.007	0.0	0.6	0.002	0.007	0.6
Offal	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0
Delicatessen meats	0.001	0.004	0.6	0.000	0.003	0.000	0.007	0.0	0.8	0.003	0.007	0.7
Fish	0.001	0.003	0.3	0.000	0.001	0.000	0.006	0.0	0.4	0.001	0.006	0.4
Crustaceans and molluscs	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0
Vegetables (excluding potatoes)	0.034	0.082	16.0	0.000	0.039	0.000	0.098	0.0	11.9	0.036	0.090	10.5
Potatoes and potato products				0.000	0.012	0.000	0.034	0.0	3.7	0.035	0.085	10.1
Pulses	0.000	0.009	0.1	0.000	0.001	0.008	0.013	0.2	0.4	0.004	0.037	1.2
Fruits	0.023	0.066	10.9	0.000	0.007	0.000	0.020	0.0	2.1	0.023	0.066	6.6
Dried fruits, nuts and seeds	0.000	0.004	0.1	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.004	0.1
Ice creams, sorbets and frozen desserts	0.000	0.016	0.1	0.000	0.000	0.000	0.007	0.0	0.0	0.000	0.016	0.1
Chocolate	0.002	0.009	0.8	0.000	0.001	0.001	0.005	0.1	0.3	0.002	0.009	0.5
Sugars and sugar derivatives	0.001	0.010	0.6	0.000	0.001	0.000	0.005	0.0	0.2	0.001	0.010	0.3
Water	0.018	0.099	8.5	0.000	0.010	0.000	0.050	0.0	2.9	0.018	0.099	5.1
Soft drinks	0.050	0.150	23.6	0.000	0.025	0.000	0.075	0.0	7.5	0.050	0.150	14.3
Alcoholic beverages	0.000	0.009	0.0	0.000	0.000	0.000	0.005	0.0	0.0	0.000	0.009	0.0
Coffee	0.000	0.125	0.1	0.000	0.000	0.000	0.063	0.0	0.0	0.000	0.125	0.1
Other hot beverages	0.007	0.058	3.2	0.000	0.003	0.000	0.029	0.0	1.0	0.007	0.058	1.9
Pizzas, quiches and savoury pastries	0.000	0.002	0.1	0.004	0.005	0.021	0.026	2.9	1.6	0.008	0.042	2.3
Sandwiches and snacks				0.002	0.003	0.027	0.027	1.7	0.9	0.004	0.035	1.3
Soups and broths				0.000	0.007	0.005	0.043	0.2	2.2	0.028	0.164	8.1
Mixed dishes	0.000	0.003	0.2	0.005	0.010	0.023	0.030	4.1	3.0	0.022	0.068	6.4
Dairy-based desserts	0.002	0.007	0.8	0.000	0.004	0.000	0.014	0.1	1.1	0.004	0.020	1.3
Compotes and cooked fruit	0.005	0.025	2.4	0.000	0.002	0.000	0.011	0.0	0.7	0.005	0.025	1.5
Seasonings and sauces	0.000	0.000	0.0	0.000	0.001	0.000	0.003	0.0	0.2	0.002	0.013	0.6
TOTAL	**0.209**	**0.396**	**100.0**	**0.130**	**0.328**	**0.253**	**0.534**	**100.0**	**100.0**	**0.347**	**0.575**	**100.0**

Food group	Sulfotep mean (UB)	Sulfotep P95 (UB)	Sulfotep contrib (UB)	Thiometon mean (UB)	Thiometon P95 (UB)	Thiometon contrib (UB)
Bread and dried bread products						
Breakfast cereals						
Pasta						
Rice and wheat products						
Croissant-like pastries						
Sweet and savoury biscuits and bars						
Pastries and cakes						
Milk	0.102	0.266	39.2	0.010	0.026	9.0
Ultra-fresh dairy products	0.048	0.117	18.5	0.004	0.011	3.3
Cheese	0.010	0.027	3.9			
Eggs and egg products	0.003	0.012	1.2	0.001	0.002	0.5
Butter	0.005	0.014	1.8			
Meat	0.010	0.026	4.0	0.002	0.005	1.7
Poultry and game	0.005	0.017	2.0	0.001	0.003	0.9
Offal	0.000	0.006	0.1	0.000	0.001	0.0
Delicatessen meats	0.006	0.018	2.4	0.001	0.004	1.1
Fish	0.004	0.014	1.4	0.001	0.003	0.6
Crustaceans and molluscs	0.000	0.004	0.1	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.029	0.075	11.1	0.029	0.075	26.0
Potatoes and potato products						
Pulses						
Fruits	0.023	0.066	8.7	0.023	0.066	20.3
Dried fruits, nuts and seeds						
Ice creams, sorbets and frozen desserts						
Chocolate				0.001	0.004	0.8
Sugars and sugar derivatives				0.000	0.005	0.1
Water	0.001	0.003	0.5	0.010	0.050	8.6
Soft drinks				0.024	0.076	21.8
Alcoholic beverages				0.000	0.005	0.0
Coffee				0.000	0.063	0.1
Other hot beverages				0.003	0.029	3.0
Pizzas, quiches and savoury pastries	0.001	0.023	0.5	0.000	0.002	0.1
Sandwiches and snacks						
Soups and broths						
Mixed dishes	0.004	0.026	1.5	0.000	0.003	0.3
Dairy-based desserts	0.008	0.034	3.2	0.002	0.007	1.5
Compotes and cooked fruit						
Seasonings and sauces	0.000	0.002	0.1	0.000	0.000	0.0
TOTAL	**0.260**	**0.458**	**100.0**	**0.111**	**0.223**	**100.0**

Table G50: Estimated exposure (mean and P95) in children aged 7 to 10 years to persistent organic pollutants (µg/kg bw/day) and contribution of foods (%)

Food group	Chlordane mean (UB)	Chlordane P95 (UB)	Chlordane contrib (UB)	DDT mean (UB)	DDT P95 (UB)	DDT contrib (UB)	Dieldrin mean (UB)	Dieldrin P95 (UB)	Dieldrin contrib (UB)	Endrin mean (UB)	Endrin P95 (UB)	Endrin c ontrib (UB)
Bread and dried bread products	0.011	0.025	6.4	0.018	0.042	4.767	0.015	0.034	4.5	0.009	0.021	6.9
Breakfast cereals	0.003	0.012	1.7	0.005	0.019	1.259	0.004	0.016	1.2	0.002	0.010	1.8
Pasta	0.008	0.022	4.8	0.013	0.036	3.577	0.011	0.030	3.4	0.007	0.018	5.1
Rice and wheat products	0.004	0.014	2.4	0.007	0.023	1.802	0.005	0.019	1.7	0.003	0.012	2.6
Croissant-like pastries	0.003	0.013	2.0	0.006	0.022	1.510	0.005	0.018	1.4	0.003	0.011	2.2
Sweet and savoury biscuits and bars	0.003	0.012	2.0	0.005	0.020	1.463	0.005	0.016	1.5	0.003	0.010	2.1
Pastries and cakes	0.007	0.021	4.2	0.012	0.035	3.170	0.010	0.028	3.0	0.006	0.017	4.6
Milk	0.040	0.104	23.8	0.042	0.110	11.284	0.016	0.043	5.1	0.006	0.016	4.6
Ultra-fresh dairy products	0.017	0.043	10.0	0.018	0.046	4.854	0.008	0.020	2.5	0.003	0.007	2.2
Cheese	0.002	0.005	1.2	0.003	0.007	0.671	0.002	0.005	0.6	0.001	0.002	0.5
Eggs and egg products	0.001	0.005	0.7	0.003	0.010	0.677	0.001	0.005	0.4	0.000	0.001	0.3
Butter	0.001	0.003	0.6	0.001	0.003	0.316	0.001	0.003	0.3	0.000	0.001	0.2
Meat	0.004	0.010	2.5	0.005	0.013	1.402	0.004	0.011	1.3	0.001	0.003	1.0
Poultry and game	0.002	0.007	1.2	0.003	0.009	0.703	0.002	0.007	0.7	0.001	0.002	0.5
Offal	0.000	0.002	0.0	0.000	0.003	0.023	0.000	0.002	0.0	0.000	0.001	0.0
Delicatessen meats	0.003	0.007	1.5	0.003	0.009	0.846	0.003	0.007	0.8	0.001	0.002	0.6
Fish	0.003	0.011	1.7	0.003	0.012	0.796	0.001	0.005	0.4	0.000	0.002	0.3
Crustaceans and molluscs	0.000	0.004	0.1	0.000	0.004	0.052	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.033	0.080	19.6	0.097	0.239	25.855	0.022	0.052	6.9	0.032	0.079	24.8
Potatoes and potato products							0.023	0.054	7.3			
Pulses	0.000	0.007	0.1	0.000	0.012	0.050	0.003	0.024	0.8	0.000	0.006	0.1
Fruits	0.007	0.020	4.2	0.036	0.103	9.492	0.014	0.041	4.4	0.007	0.020	5.4
Dried fruits, nuts and seeds	0.000	0.003	0.1	0.000	0.006	0.075	0.000	0.005	0.1	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.014	0.1	0.000	0.023	0.072	0.000	0.019	0.1	0.000	0.012	0.1
Chocolate				0.002	0.009	0.451	0.003	0.013	0.8	0.001	0.004	0.6
Sugars and sugar derivatives	0.001	0.010	0.5	0.002	0.012	0.427	0.001	0.015	0.4	0.001	0.006	0.6
Water	0.001	0.003	0.8	0.018	0.099	4.771	0.026	0.149	8.0	0.010	0.050	7.4
Soft drinks	0.001	0.012	0.5	0.050	0.151	13.323	0.075	0.229	23.5	0.025	0.075	19.1
Alcoholic beverages				0.000	0.009	0.025	0.000	0.014	0.0	0.000	0.005	0.0
Coffee				0.000	0.125	0.069	0.000	0.190	0.1	0.000	0.063	0.1
Other hot beverages				0.007	0.058	1.793	0.010	0.088	3.2	0.003	0.029	2.6
Pizzas, quiches and savoury pastries	0.001	0.009	0.3	0.001	0.010	0.156	0.005	0.025	1.5	0.000	0.001	0.1
Sandwiches and snacks							0.003	0.022	0.9			
Soups and broths							0.017	0.100	5.4			
Mixed dishes	0.001	0.010	0.9	0.002	0.011	0.419	0.014	0.042	4.3	0.000	0.002	0.2
Dairy-based desserts	0.006	0.024	3.7	0.007	0.029	1.854	0.003	0.012	1.0	0.001	0.004	0.8
Compotes and cooked fruit	0.004	0.021	2.6	0.007	0.035	1.950	0.006	0.029	1.9	0.004	0.018	2.8
Seasonings and sauces	0.000	0.001	0.0	0.000	0.002	0.047	0.001	0.008	0.4	0.000	0.000	0.0
TOTAL	**0.168**	**0.273**	**100.0**	**0.375**	**0.647**	**100.00**	**0.320**	**0.578**	**100.0**	**0.130**	**0.228**	**100.0**

Food group	HCB mean (LB)	HCB mean (UB)	HCB P95 (LB)	HCB P95 (UB)	HCB contrib (LB)	HCB contrib (UB)	HCH mean (UB)	HCH P95 (UB)	HCH contrib (UB)	Heptachlor mean (UB)	Heptachlor P95 (UB)	Heptachlor contrib (UB)
Bread and dried bread products	0.000	0.005	0.000	0.013	0.0	4.4	0.016	0.037	5.9	0.021	0.051	6.6
Breakfast cereals	0.000	0.001	0.000	0.006	0.0	1.2	0.004	0.017	1.6	0.006	0.023	1.7
Pasta	0.000	0.004	0.000	0.011	0.0	3.3	0.012	0.032	4.4	0.016	0.044	4.9
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	1.7	0.006	0.020	2.2	0.008	0.028	2.5
Croissant-like pastries	0.000	0.002	0.000	0.007	0.0	1.4	0.005	0.020	1.9	0.007	0.027	2.1
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.006	0.0	1.5	0.006	0.018	2.1	0.007	0.024	2.0
Pastries and cakes	0.000	0.004	0.000	0.010	0.0	2.9	0.010	0.031	3.9	0.014	0.042	4.4
Milk	0.000	0.006	0.000	0.016	0.0	5.0	0.020	0.052	7.5	0.018	0.047	5.5
Ultra-fresh dairy products	0.000	0.003	0.000	0.007	0.0	2.3	0.009	0.023	3.5	0.008	0.021	2.6
Cheese	0.000	0.001	0.000	0.002	0.0	0.5	0.002	0.005	0.7	0.002	0.005	0.5
Eggs and egg products	0.000	0.001	0.000	0.002	0.0	0.5	0.001	0.005	0.5	0.001	0.005	0.4
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.4	0.001	0.002	0.3
Meat	0.000	0.002	0.000	0.005	0.0	1.7	0.004	0.010	1.6	0.004	0.009	1.1
Poultry and game	0.000	0.001	0.000	0.004	23.2	0.9	0.002	0.007	0.8	0.002	0.006	0.6
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Delicatessen meats	0.000	0.001	0.001	0.004	76.8	1.1	0.003	0.007	0.9	0.002	0.007	0.7
Fish	0.000	0.000	0.000	0.002	0.0	0.3	0.001	0.006	0.5	0.001	0.005	0.4
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Vegetables (excluding potatoes)	0.000	0.010	0.000	0.024	0.0	8.2	0.028	0.066	10.3	0.095	0.234	29.1
Potatoes and potato products	0.000	0.009	0.000	0.021	0.0	7.2	0.035	0.085	13.1			
Pulses	0.000	0.001	0.000	0.010	0.0	0.8	0.000	0.011	0.1	0.000	0.015	0.1
Fruits	0.000	0.007	0.000	0.020	0.0	5.7	0.021	0.061	7.8	0.021	0.061	6.4
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.005	0.1	0.000	0.007	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.007	0.0	0.1	0.000	0.020	0.1	0.000	0.028	0.1
Chocolate	0.000	0.001	0.000	0.004	0.0	0.7	0.001	0.008	0.6	0.002	0.009	0.5
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.4	0.001	0.011	0.5	0.002	0.014	0.6
Water	0.000	0.010	0.000	0.050	0.0	7.9	0.016	0.088	6.0	0.017	0.098	5.2
Soft drinks	0.000	0.025	0.000	0.075	0.0	20.4	0.044	0.133	16.5	0.050	0.151	15.4
Alcoholic beverages	0.000	0.000	0.000	0.005	0.0	0.0	0.000	0.008	0.0	0.000	0.009	0.0
Coffee	0.000	0.000	0.000	0.063	0.0	0.1	0.000	0.110	0.1	0.000	0.125	0.1
Other hot beverages	0.000	0.003	0.000	0.029	0.0	2.8	0.006	0.051	2.2	0.007	0.058	2.1
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.7	0.000	0.005	0.1	0.000	0.004	0.1
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.9						
Soups and broths	0.000	0.007	0.000	0.041	0.0	5.8						
Mixed dishes	0.000	0.006	0.000	0.018	0.0	4.8	0.001	0.005	0.3	0.001	0.005	0.2
Dairy-based desserts	0.000	0.001	0.000	0.005	0.0	1.0	0.003	0.014	1.2	0.003	0.012	0.9
Compotes and cooked fruit	0.000	0.002	0.000	0.011	0.0	1.8	0.006	0.031	2.4	0.009	0.043	2.7
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.4	0.000	0.001	0.0	0.000	0.001	0.0
TOTAL	**0.000**	**0.121**	**0.001**	**0.214**	**100.0**	**100.0**	**0.267**	**0.436**	**100.0**	**0.326**	**0.589**	**100.0**

Food group	Lindane mean (LB)	Lindane mean (UB)	Lindane P95 (LB)	Lindane P95 (UB)	Lindane contrib (LB)	Lindane contrib (UB)	Toxaphene mean (UB)	Toxaphene P95 (UB)	Toxaphene contrib (UB)
Bread and dried bread products	0.000	0.036	0.000	0.084	0.0	13.3			
Breakfast cereals	0.000	0.009	0.000	0.039	0.0	3.5			
Pasta	0.000	0.027	0.000	0.073	0.0	10.0			
Rice and wheat products	0.000	0.014	0.000	0.046	0.0	5.0			
Croissant-like pastries	0.000	0.011	0.000	0.045	0.0	4.2			
Sweet and savoury biscuits and bars	0.000	0.011	0.000	0.040	0.0	4.2			
Pastries and cakes	0.000	0.024	0.000	0.069	0.0	8.8			
Milk	0.000	0.006	0.000	0.016	0.0	2.2	0.010	0.026	39.4
Ultra-fresh dairy products	0.000	0.003	0.000	0.007	0.0	1.1	0.005	0.011	18.5
Cheese	0.000	0.001	0.000	0.002	0.0	0.2	0.001	0.003	3.9
Eggs and egg products	0.000	0.001	0.000	0.007	1.5	0.5	0.001	0.002	2.4
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	1.8
Meat	0.000	0.002	0.000	0.005	1.6	0.8	0.002	0.005	8.2
Poultry and game	0.002	0.003	0.014	0.014	96.9	1.0	0.001	0.003	4.1
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.1
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	0.5	0.001	0.004	4.9
Fish	0.000	0.000	0.000	0.002	0.0	0.2	0.001	0.003	2.8
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.2
Vegetables (excluding potatoes)	0.000	0.021	0.000	0.049	0.0	7.9			
Potatoes and potato products	0.000	0.012	0.000	0.034	0.0	4.5			
Pulses	0.000	0.001	0.000	0.014	0.0	0.5			
Fruits	0.000	0.008	0.000	0.023	0.0	2.8			
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.011	0.0	0.2			
Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.046	0.0	0.2			
Chocolate	0.000	0.001	0.000	0.004	0.0	0.3			
Sugars and sugar derivatives	0.000	0.003	0.000	0.024	0.0	1.1			
Water	0.000	0.010	0.000	0.050	0.0	3.6	0.001	0.003	5.1
Soft drinks	0.000	0.027	0.000	0.077	0.0	10.0			
Alcoholic beverages	0.000	0.000	0.000	0.005	0.0	0.0			
Coffee	0.000	0.000	0.000	0.063	0.0	0.0			
Other hot beverages	0.000	0.003	0.000	0.029	0.0	1.2			
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	0.7	0.000	0.002	0.5
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.4			
Soups and broths	0.000	0.007	0.000	0.041	0.0	2.6			
Mixed dishes	0.000	0.006	0.000	0.017	0.0	2.1	0.000	0.003	1.5
Dairy-based desserts	0.000	0.001	0.000	0.006	0.0	0.5	0.002	0.007	6.5
Compotes and cooked fruit	0.000	0.015	0.000	0.071	0.0	5.4			
Seasonings and sauces	0.000	0.001	0.000	0.003	0.0	0.2	0.000	0.000	0.2
TOTAL	**0.002**	**0.269**	**0.013**	**0.470**	**100.0**	**100.0**	**0.025**	**0.045**	**100.0**

Table G51: Estimated exposure (mean and P95) in children aged 7 to 10 years to other pesticide residues (µg/kg bw/day) and contribution of foods (%)

Food group	Biphenyl mean (UB)	Biphenyl P95 (UB)	Biphenyl contrib (UB)	Deltamethrin mean (LB)	Deltamethrin mean (UB)	Deltamethrin P95 (UB)	Deltamethrin contrib (LB)	Deltamethrin contrib (UB)	Diquat mean (UB)	Diquat P95 (UB)	Diquat contrib (UB)	Ethoxyquin mean (LB)	Ethoxyquin mean (UB)
Bread and dried bread products				0.000	0.013	0.029	0.0	3.262				0.000	0.009
Breakfast cereals				0.000	0.003	0.014	0.0	0.862				0.000	0.002
Pasta				0.000	0.009	0.025	0.0	2.448				0.000	0.007
Rice and wheat products				0.000	0.005	0.016	0.0	1.233				0.000	0.003
Croissant-like pastries				0.000	0.004	0.016	0.0	1.034				0.000	0.003
Sweet and savoury biscuits and bars				0.000	0.006	0.021	0.0	1.528				0.000	0.003
Pastries and cakes				0.000	0.008	0.024	0.0	2.170				0.000	0.006
Milk				0.000	0.020	0.052	0.0	5.226	0.020	0.052	61.3	0.000	0.200
Ultra-fresh dairy products				0.000	0.009	0.023	0.0	2.460	0.007	0.021	22.6	0.000	0.015
Cheese				0.000	0.002	0.005	0.0	0.518					
Eggs and egg products				0.000	0.001	0.005	0.0	0.313					
Butter				0.000	0.001	0.003	0.0	0.244					
Meat				0.000	0.004	0.010	0.0	1.082					
Poultry and game				0.000	0.002	0.007	0.0	0.543					
Offal				0.000	0.000	0.002	0.0	0.018					
Delicatessen meats				0.000	0.003	0.007	0.0	0.653					
Fish				0.000	0.001	0.006	0.0	0.369					
Crustaceans and molluscs				0.000	0.000	0.002	0.0	0.024					
Vegetables (excluding potatoes)				0.000	0.045	0.115	0.0	11.742				0.000	0.018
Potatoes and potato products				0.000	0.067	0.178	0.0	17.490					
Pulses				0.000	0.005	0.045	0.0	1.295				0.000	0.000
Fruits	0.011	0.033	22.7	0.000	0.007	0.021	0.0	1.841				0.007	0.008
Dried fruits, nuts and seeds				0.000	0.000	0.004	0.0	0.051				0.000	0.000
Ice creams, sorbets and frozen desserts				0.000	0.000	0.016	0.0	0.049				0.000	0.000
Chocolate	0.001	0.004	1.7	0.000	0.002	0.009	0.0	0.441					
Sugars and sugar derivatives	0.000	0.005	0.2	0.000	0.001	0.010	0.0	0.304				0.000	0.001
Water	0.010	0.050	19.3	0.000	0.018	0.099	0.0	4.665	0.001	0.003	4.0	0.000	0.001
Soft drinks	0.024	0.076	49.0	0.000	0.050	0.150	0.0	12.924				0.000	0.001
Alcoholic beverages	0.000	0.005	0.1	0.000	0.000	0.009	0.0	0.024					
Coffee	0.000	0.063	0.3	0.000	0.000	0.125	0.0	0.067					
Other hot beverages	0.003	0.029	6.8	0.000	0.007	0.058	0.0	1.753					
Pizzas, quiches and savoury pastries				0.000	0.010	0.052	0.0	2.581	0.000	0.005	0.8		
Sandwiches and snacks				0.000	0.006	0.044	0.0	1.460					
Soups and broths				0.000	0.035	0.205	0.0	9.223					
Mixed dishes				0.000	0.027	0.085	0.0	7.056	0.001	0.005	2.3		
Dairy-based desserts				0.000	0.004	0.014	0.0	1.103	0.003	0.012	9.0		
Compotes and cooked fruit				0.000	0.005	0.025	0.0	1.334				0.001	0.005
Seasonings and sauces				0.000	0.002	0.016	0.0	0.613					
TOTAL	**0.050**	**0.131**	**100.0**	**0.000**	**0.383**	**0.619**	**100.0**	**100.0**	**0.033**	**0.067**	**100.0**	**0.008**	**0.282**

Food group	Ethoxyquin P95 (LB)	Ethoxyquin P95 (UB)	Ethoxyquin contrib (LB)	Ethoxyquin contrib (UB)	Fenpropimorph mean (UB)	Fenpropimorph P95 (UB)	Fenpropimorph contrib (UB)	Ofurace mean (UB)	Ofurace P95 (UB)	Ofurace contrib (UB)	Rotenone mean (UB)	Rotenone P95 (UB)	Rotenone contrib (UB)
Bread and dried bread products	0.000	0.021	0.0	3.2	0.009	0.021	9.2						
Breakfast cereals	0.000	0.010	0.0	0.8	0.002	0.010	2.4						
Pasta	0.000	0.018	0.0	2.4	0.007	0.018	6.9						
Rice and wheat products	0.000	0.012	0.0	1.2	0.003	0.012	3.5						
Croissant-like pastries	0.000	0.011	0.0	1.0	0.003	0.011	2.9						
Sweet and savoury biscuits and bars	0.000	0.010	0.0	1.0	0.003	0.010	2.8						
Pastries and cakes	0.000	0.017	0.0	2.1	0.006	0.017	6.1						
Milk	0.000	0.521	0.0	71.0	0.010	0.026	10.3	0.010	0.026	39.573	0.010	0.026	45.4
Ultra-fresh dairy products	0.000	0.136	0.0	5.4	0.004	0.011	3.8	0.005	0.011	18.627	0.004	0.011	16.8
Cheese								0.001	0.003	3.921			
Eggs and egg products								0.001	0.002	2.373	0.001	0.002	2.7
Butter								0.000	0.001	1.845			
Meat								0.002	0.005	7.687	0.002	0.005	8.8
Poultry and game								0.001	0.003	4.110	0.001	0.003	4.7
Offal								0.000	0.001	0.132	0.000	0.001	0.2
Delicatessen meats								0.001	0.004	4.943	0.001	0.004	5.7
Fish								0.001	0.003	2.791			
Crustaceans and molluscs								0.000	0.001	0.184			
Vegetables (excluding potatoes)	0.000	0.043	0.0	6.3	0.032	0.079	33.1						
Potatoes and potato products													
Pulses	0.000	0.006	0.0	0.0	0.000	0.006	0.1						
Fruits	0.094	0.094	92.4	2.7	0.011	0.034	11.8						
Dried fruits, nuts and seeds	0.000	0.003	0.0	0.0	0.000	0.003	0.1						
Ice creams, sorbets and frozen desserts	0.000	0.012	0.0	0.0	0.000	0.012	0.1						
Chocolate													
Sugars and sugar derivatives	0.000	0.009	0.0	0.3	0.001	0.009	0.7						
Water	0.000	0.003	0.0	0.5	0.001	0.003	1.3	0.001	0.003	5.131	0.001	0.003	5.9
Soft drinks	0.000	0.010	0.0	0.2	0.001	0.010	0.7						
Alcoholic beverages													
Coffee													
Other hot beverages													
Pizzas, quiches and savoury pastries					0.000	0.002	0.1	0.000	0.002	0.548	0.000	0.002	0.6
Sandwiches and snacks													
Soups and broths													
Mixed dishes					0.000	0.003	0.4	0.000	0.003	1.469	0.000	0.003	1.7
Dairy-based desserts								0.002	0.007	6.501	0.002	0.007	7.5
Compotes and cooked fruit	0.006	0.032	7.6	1.9	0.004	0.018	3.7						
Seasonings and sauces								0.000	0.000	0.163	0.000	0.000	0.2
TOTAL	**0.049**	**0.583**	**100.0**	**100.0**	**0.098**	**0.169**	**100.0**	**0.025**	**0.045**	**100.00**	**0.022**	**0.041**	**100.0**

Table G52: Estimated exposure (mean and P95) in children aged 11 to 14 years to carbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Aldicarb mean (UB)	Aldicarb P95 (UB)	Aldicarb contrib (UB)	Carbaryl mean (LB)	Carbaryl mean (UB)	Carbaryl P95 (UB)	Carbaryl contrib (LB)	Carbaryl contrib (UB)	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)
Bread and dried bread products				0.000	0.004	0.010	0.0	3.6	0.000	0.007	0.000	0.017
Breakfast cereals				0.000	0.001	0.005	0.0	0.9	0.000	0.002	0.000	0.008
Pasta				0.000	0.003	0.010	0.0	3.0	0.000	0.006	0.000	0.016
Rice and wheat products				0.000	0.002	0.007	0.0	1.7	0.000	0.003	0.000	0.012
Croissant-like pastries				0.000	0.001	0.006	0.0	1.0	0.000	0.002	0.000	0.010
Sweet and savoury biscuits and bars	0.000	0.008	0.2	0.000	0.001	0.004	0.0	0.9	0.000	0.002	0.000	0.007
Pastries and cakes				0.000	0.002	0.008	0.0	2.0	0.000	0.004	0.000	0.014
Milk	0.067	0.194	29.4	0.000	0.006	0.017	0.0	5.1	0.000	0.006	0.000	0.017
Ultra-fresh dairy products	0.006	0.024	2.5	0.000	0.002	0.007	100.0	2.0	0.000	0.002	0.000	0.007
Cheese	0.001	0.004	0.5	0.000	0.001	0.002	0.0	0.6	0.000	0.001	0.000	0.002
Eggs and egg products	0.004	0.017	1.6	0.000	0.000	0.002	0.0	0.3	0.000	0.000	0.000	0.002
Butter	0.001	0.002	0.3									
Meat	0.016	0.040	7.0	0.000	0.001	0.004	0.0	1.2	0.000	0.001	0.000	0.004
Poultry and game	0.009	0.031	3.9	0.000	0.001	0.003	0.0	0.7	0.000	0.001	0.000	0.003
Offal	0.000	0.011	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.010	0.029	4.4	0.000	0.001	0.003	0.0	0.8	0.000	0.001	0.000	0.003
Fish	0.002	0.007	0.7	0.000	0.000	0.002	0.0	0.4	0.000	0.000	0.000	0.002
Crustaceans and molluscs	0.000	0.004	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.002	0.019	0.7	0.000	0.027	0.073	0.0	23.6	0.000	0.013	0.000	0.033
Potatoes and potato products	0.024	0.062	10.6	0.000	0.006	0.017	0.0	5.6	0.000	0.018	0.000	0.047
Pulses	0.002	0.025	0.7	0.000	0.001	0.007	0.0	0.4	0.000	0.001	0.000	0.017
Fruits	0.029	0.093	12.7	0.000	0.007	0.023	0.0	6.3	0.009	0.020	0.067	0.090
Dried fruits, nuts and seeds				0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts				0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.003
Chocolate				0.000	0.000	0.003	0.0	0.4				
Sugars and sugar derivatives	0.000	0.000	0.0	0.000	0.000	0.003	0.0	0.3	0.000	0.000	0.000	0.006
Water	0.002	0.004	0.7	0.000	0.007	0.036	0.0	6.1	0.004	0.006	0.033	0.035
Soft drinks	0.002	0.006	0.9	0.000	0.020	0.059	0.0	17.1	0.000	0.002	0.000	0.008
Alcoholic beverages	0.000	0.001	0.0	0.000	0.000	0.006	0.0	0.1	0.000	0.000	0.000	0.001
Coffee				0.000	0.000	0.029	0.0	0.3				
Other hot beverages	0.000	0.004	0.1	0.000	0.003	0.029	0.0	2.5	0.000	0.000	0.000	0.005
Pizzas, quiches and savoury pastries	0.007	0.035	2.9	0.000	0.002	0.010	0.0	1.5	0.000	0.007	0.000	0.040
Sandwiches and snacks	0.004	0.035	1.9	0.000	0.001	0.009	0.0	1.0	0.000	0.005	0.000	0.037
Soups and broths	0.017	0.110	7.6	0.000	0.005	0.030	0.0	4.0	0.000	0.012	0.000	0.081
Mixed dishes	0.017	0.065	7.6	0.000	0.005	0.017	0.0	4.2	0.000	0.018	0.000	0.070
Dairy-based desserts	0.005	0.030	2.2	0.000	0.001	0.007	0.0	1.0	0.000	0.002	0.000	0.009
Compotes and cooked fruit				0.000	0.001	0.006	0.0	0.8	0.000	0.001	0.000	0.010
Seasonings and sauces	0.002	0.008	0.8	0.000	0.000	0.002	0.0	0.3	0.000	0.001	0.000	0.008
TOTAL	**0.226**	**0.440**	**100.0**	**0.000**	**0.115**	**0.210**	**100.0**	**100.0**	**0.013**	**0.145**	**0.070**	**0.268**

Food group	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Carbetamide mean (UB)	Carbetamide P95 (UB)	Carbetamide contrib (UB)	Carbofuran mean (LB)	Carbofuran mean (UB)	Carbofuran P95 (LB)	Carbofuran P95 (UB)	Carbofuran contrib (LB)	Carbofuran contrib (UB)
Bread and dried bread products	0.0	4.8				0.000	0.007	0.000	0.017	0.0	5.7
Breakfast cereals	0.0	1.2				0.000	0.002	0.000	0.008	0.0	1.4
Pasta	0.0	3.9				0.000	0.006	0.000	0.016	0.0	4.7
Rice and wheat products	0.0	2.2				0.000	0.003	0.000	0.012	0.0	2.6
Croissant-like pastries	0.0	1.4				0.000	0.002	0.000	0.010	0.0	1.7
Sweet and savoury biscuits and bars	0.0	1.2				0.000	0.002	0.000	0.007	0.0	1.3
Pastries and cakes	0.0	2.7				0.000	0.004	0.000	0.014	0.0	3.2
Milk	0.0	4.0	0.006	0.017	38.1	0.000	0.006	0.000	0.017	0.0	4.8
Ultra-fresh dairy products	0.0	1.6	0.002	0.007	15.3	0.000	0.002	0.000	0.007	0.0	1.7
Cheese	0.0	0.4	0.001	0.002	4.2						
Eggs and egg products	0.0	0.2	0.000	0.002	2.2	0.000	0.000	0.000	0.002	0.0	0.3
Butter			0.000	0.001	1.9						
Meat	0.0	1.0	0.001	0.004	9.0	0.000	0.001	0.000	0.004	0.0	1.1
Poultry and game	0.0	0.5	0.001	0.003	5.0	0.000	0.001	0.000	0.003	0.0	0.6
Offal	0.0	0.0	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.0	0.6	0.001	0.003	5.7	0.000	0.001	0.000	0.003	0.0	0.7
Fish	0.0	0.3	0.000	0.002	2.9	0.000	0.000	0.000	0.002	0.0	0.4
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.4	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.0	9.1				0.001	0.023	0.000	0.061	100.0	19.3
Potatoes and potato products	0.0	12.4				0.000	0.006	0.000	0.017	0.0	5.3
Pulses	0.0	0.8				0.000	0.001	0.000	0.008	0.0	0.5
Fruits	67.8	13.7				0.000	0.007	0.000	0.024	0.0	6.0
Dried fruits, nuts and seeds	0.0	0.1				0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.0	0.0				0.000	0.000	0.000	0.003	0.0	0.0
Chocolate						0.000	0.000	0.000	0.003	0.0	0.4
Sugars and sugar derivatives	0.0	0.3				0.000	0.001	0.000	0.006	0.0	0.5
Water	32.2	3.9	0.001	0.002	6.1	0.000	0.007	0.000	0.036	0.0	5.8
Soft drinks	0.0	1.7				0.000	0.020	0.000	0.059	0.0	16.3
Alcoholic beverages	0.0	0.0				0.000	0.000	0.000	0.006	0.0	0.1
Coffee						0.000	0.000	0.000	0.029	0.0	0.3
Other hot beverages	0.0	0.1				0.000	0.003	0.000	0.029	0.0	2.4
Pizzas, quiches and savoury pastries	0.0	4.8	0.000	0.002	0.9	0.000	0.002	0.000	0.010	0.0	1.5
Sandwiches and snacks	0.0	3.3				0.000	0.001	0.000	0.009	0.0	1.0
Soups and broths	0.0	8.2				0.000	0.005	0.000	0.030	0.0	3.8
Mixed dishes	0.0	12.7	0.000	0.002	1.4	0.000	0.005	0.000	0.017	0.0	4.0
Dairy-based desserts	0.0	1.1	0.001	0.005	6.3	0.000	0.001	0.000	0.007	0.0	0.9
Compotes and cooked fruit	0.0	1.0				0.000	0.001	0.000	0.010	0.0	1.2
Seasonings and sauces	0.0	0.8	0.000	0.000	0.2	0.000	0.000	0.000	0.002	0.0	0.3
TOTAL	**100.0**	**100.0**	**0.015**	**0.029**	**100.0**	**0.001**	**0.121**	**0.000**	**0.215**	**100.0**	**100.0**

Food group	Methomyl mean (LB)	Methomyl mean (UB)	Methomyl P95 (LB)	Methomyl P95 (UB)	Methomyl contrib (LB)	Methomyl contrib (UB)	Triallate mean (UB)	Triallate P95 (UB)	Triallate contrib (UB)
Bread and dried bread products									
Breakfast cereals									
Pasta									
Rice and wheat products									
Croissant-like pastries									
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.003	0.0	0.3			
Pastries and cakes									
Milk	0.000	0.009	0.000	0.025	0.0	13.2	0.004	0.010	35.6
Ultra-fresh dairy products	0.000	0.003	0.000	0.010	0.0	5.3	0.001	0.004	14.4
Cheese	0.000	0.001	0.000	0.003	0.0	1.4	0.000	0.001	3.9
Eggs and egg products	0.000	0.000	0.000	0.002	0.0	0.5	0.000	0.002	3.5
Butter	0.000	0.000	0.000	0.001	0.0	0.7	0.000	0.001	1.8
Meat	0.000	0.001	0.000	0.004	0.0	2.2	0.001	0.002	9.0
Poultry and game	0.000	0.001	0.000	0.003	0.0	1.2	0.000	0.002	4.7
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.1
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	1.4	0.001	0.002	5.3
Fish	0.000	0.000	0.000	0.002	0.0	0.7	0.000	0.001	2.7
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.3
Vegetables (excluding potatoes)	0.000	0.001	0.000	0.007	0.0	1.0			
Potatoes and potato products	0.000	0.009	0.000	0.025	0.0	14.6			
Pulses	0.000	0.001	0.000	0.010	0.0	1.0			
Fruits	0.000	0.011	0.000	0.035	100.0	17.1			
Dried fruits, nuts and seeds									
Ice creams, sorbets and frozen desserts									
Chocolate									
Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0.0	0.0			
Water	0.000	0.002	0.000	0.006	0.0	2.8	0.001	0.002	9.6
Soft drinks	0.000	0.003	0.000	0.009	0.0	4.4			
Alcoholic beverages	0.000	0.000	0.000	0.001	0.0	0.0			
Coffee									
Other hot beverages	0.000	0.000	0.000	0.006	0.0	0.3			
Pizzas, quiches and savoury pastries	0.000	0.003	0.000	0.015	0.0	4.2	0.000	0.001	0.9
Sandwiches and snacks	0.000	0.002	0.000	0.014	0.0	2.7			
Soups and broths	0.000	0.007	0.000	0.043	0.0	10.5			
Mixed dishes	0.000	0.007	0.000	0.025	0.0	10.9	0.000	0.001	1.4
Dairy-based desserts	0.000	0.002	0.000	0.010	0.0	2.5	0.001	0.004	6.5
Compotes and cooked fruit									
Seasonings and sauces	0.000	0.001	0.000	0.003	0.0	0.9	0.000	0.000	0.4
TOTAL	**0.000**	**0.064**	**0.000**	**0.123**	**100.0**	**100.0**	**0.010**	**0.019**	**100.0**

Table G53: Estimated exposure (mean and P95) in children aged 11 to 14 years to dicarboximides (µg/kg bw/day) and contribution of foods (%)

Food group	Folpet mean (LB)	Folpet mean (UB)	Folpet P95 (UB)	Folpet contrib (LB)	Folpet contrib (UB)	Iprodione mean (LB)	Iprodione mean (UB)	Iprodione P95 (LB)	Iprodione P95 (UB)	Iprodione contrib (LB)	Iprodione contrib (UB)
Bread and dried bread products	0.000	0.007	0.017	0.0	2.2	0.000	0.007	0.000	0.017	0.0	1.8
Breakfast cereals	0.000	0.002	0.008	0.0	0.5	0.000	0.002	0.000	0.008	0.0	0.5
Pasta	0.000	0.006	0.016	0.0	1.8	0.000	0.006	0.000	0.016	0.0	1.5
Rice and wheat products	0.000	0.003	0.012	0.0	1.0	0.000	0.003	0.000	0.012	0.0	0.8
Croissant-like pastries	0.000	0.002	0.010	0.0	0.6	0.000	0.002	0.000	0.010	0.0	0.5
Sweet and savoury biscuits and bars	0.000	0.002	0.009	0.0	0.6	0.000	0.002	0.000	0.007	0.0	0.5
Pastries and cakes	0.000	0.004	0.014	0.0	1.2	0.000	0.004	0.000	0.014	0.0	1.0
Milk	0.000	0.023	0.068	0.0	7.4	0.000	0.023	0.000	0.068	0.0	6.2
Ultra-fresh dairy products	0.000	0.012	0.031	0.0	3.7	0.000	0.012	0.000	0.031	0.0	3.1
Cheese	0.000	0.006	0.020	0.0	2.0	0.000	0.006	0.000	0.020	0.0	1.7
Eggs and egg products	0.000	0.003	0.016	0.0	1.1	0.000	0.003	0.000	0.016	0.0	0.9
Butter	0.000	0.003	0.009	0.0	0.9	0.000	0.003	0.000	0.009	0.0	0.8
Meat	0.000	0.015	0.037	0.0	4.7	0.000	0.015	0.000	0.037	0.0	3.9
Poultry and game	0.000	0.008	0.027	0.0	2.5	0.000	0.008	0.000	0.027	0.0	2.0
Offal	0.000	0.000	0.010	0.0	0.1	0.000	0.000	0.000	0.010	0.0	0.1
Delicatessen meats	0.000	0.009	0.026	0.0	2.8	0.000	0.009	0.000	0.026	0.0	2.3
Fish	0.000	0.002	0.007	0.0	0.6	0.000	0.002	0.000	0.007	0.0	0.5
Crustaceans and molluscs	0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.000	0.005	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.023	0.061	0.0	7.4	0.126	0.137	0.590	0.603	85.9	36.2
Potatoes and potato products	0.000	0.093	0.389	0.0	29.6	0.000	0.013	0.000	0.034	0.0	3.5
Pulses	0.000	0.001	0.009	0.0	0.2	0.000	0.001	0.000	0.013	0.0	0.3
Fruits	0.001	0.005	0.016	100.0	1.6	0.018	0.024	0.122	0.129	12.5	6.4
Dried fruits, nuts and seeds	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0
Chocolate	0.000	0.001	0.005	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.2
Sugars and sugar derivatives	0.000	0.001	0.006	0.0	0.2	0.000	0.001	0.000	0.006	0.0	0.2
Water	0.000	0.013	0.073	0.0	4.1	0.000	0.013	0.000	0.073	0.0	3.4
Soft drinks	0.000	0.039	0.119	0.0	12.5	0.000	0.039	0.000	0.119	0.0	10.4
Alcoholic beverages	0.000	0.000	0.013	0.0	0.1	0.000	0.000	0.005	0.018	0.0	0.1
Coffee	0.000	0.001	0.058	0.0	0.2	0.000	0.001	0.000	0.058	0.0	0.2
Other hot beverages	0.000	0.006	0.058	0.0	1.8	0.000	0.006	0.000	0.058	0.0	1.5
Pizzas, quiches and savoury pastries	0.000	0.003	0.014	0.0	1.0	0.000	0.004	0.000	0.020	0.0	1.1
Sandwiches and snacks	0.000	0.002	0.013	0.0	0.5	0.002	0.005	0.057	0.060	1.6	1.2
Soups and broths	0.000	0.006	0.042	0.0	2.1	0.000	0.009	0.000	0.059	0.0	2.4
Mixed dishes	0.000	0.007	0.025	0.0	2.3	0.000	0.010	0.000	0.036	0.1	2.7
Dairy-based desserts	0.000	0.005	0.028	0.0	1.6	0.000	0.005	0.000	0.029	0.0	1.3
Compotes and cooked fruit	0.000	0.001	0.010	0.0	0.5	0.000	0.001	0.000	0.010	0.0	0.4
Seasonings and sauces	0.000	0.001	0.004	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.3
TOTAL	**0.001**	**0.315**	**0.620**	**100.0**	**100.0**	**0.147**	**0.377**	**0.617**	**0.836**	**100.0**	**100.0**

Food group	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.007	0.000	0.017	0.0	2.4
Breakfast cereals	0.000	0.002	0.000	0.008	0.0	0.6
Pasta	0.000	0.006	0.000	0.016	0.0	2.0
Rice and wheat products	0.000	0.003	0.000	0.012	0.0	1.1
Croissant-like pastries	0.000	0.002	0.000	0.010	0.0	0.7
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.007	0.0	0.5
Pastries and cakes	0.000	0.004	0.000	0.014	0.0	1.3
Milk	0.000	0.062	0.000	0.180	0.0	21.2
Ultra-fresh dairy products	0.000	0.025	0.000	0.072	0.0	8.6
Cheese	0.000	0.007	0.000	0.022	0.0	2.3
Eggs and egg products	0.000	0.004	0.000	0.017	0.0	1.3
Butter	0.000	0.003	0.000	0.010	0.0	1.1
Meat	0.000	0.016	0.000	0.039	0.0	5.4
Poultry and game	0.000	0.008	0.000	0.029	0.0	2.8
Offal	0.000	0.000	0.000	0.010	0.0	0.1
Delicatessen meats	0.000	0.009	0.000	0.027	0.0	3.2
Fish	0.000	0.005	0.000	0.019	0.0	1.6
Crustaceans and molluscs	0.000	0.001	0.000	0.012	0.0	0.2
Vegetables (excluding potatoes)	0.004	0.052	0.026	0.131	100.0	17.9
Potatoes and potato products	0.000	0.007	0.000	0.019	0.0	2.5
Pulses	0.000	0.001	0.000	0.008	0.0	0.2
Fruits	0.000	0.007	0.000	0.024	0.0	2.5
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.003	0.0	0.0
Chocolate	0.000	0.000	0.000	0.003	0.0	0.2
Sugars and sugar derivatives	0.000	0.001	0.000	0.006	0.0	0.2
Water	0.000	0.007	0.000	0.036	0.0	2.4
Soft drinks	0.000	0.020	0.000	0.059	0.0	6.8
Alcoholic beverages	0.000	0.000	0.000	0.006	0.0	0.0
Coffee	0.000	0.000	0.000	0.029	0.0	0.1
Other hot beverages	0.000	0.003	0.000	0.029	0.0	1.0
Pizzas, quiches and savoury pastries	0.000	0.003	0.000	0.015	0.0	1.1
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.4
Soups and broths	0.000	0.005	0.000	0.030	0.0	1.6
Mixed dishes	0.000	0.007	0.000	0.026	0.0	2.4
Dairy-based desserts	0.000	0.011	0.000	0.055	0.0	3.6
Compotes and cooked fruit	0.000	0.001	0.000	0.010	0.0	0.5
Seasonings and sauces	0.000	0.001	0.000	0.004	0.0	0.3
TOTAL	**0.004**	**0.291**	**0.023**	**0.511**	**100.0**	**100.0**

Table G54: Estimated exposure (mean and P95) in children aged 11 to 14 years to dithiocarbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Dithiocarbamates mean (UB)	Dithiocarbamates P95 (UB)	Dithiocarbamates contrib (UB)
Bread and dried bread products	0.276	0.669	15.7
Breakfast cereals	0.069	0.321	3.9
Pasta	0.228	0.653	12.9
Rice and wheat products	0.126	0.472	7.1
Croissant-like pastries	0.027	0.196	1.6
Sweet and savoury biscuits and bars	0.012	0.122	0.7
Pastries and cakes	0.034	0.259	1.9
Milk	0.012	0.034	0.7
Ultra-fresh dairy products	0.004	0.013	0.2
Cheese			
Eggs and egg products			
Butter			
Meat			
Poultry and game			
Offal			
Delicatessen meats			
Fish			
Crustaceans and molluscs			
Vegetables (excluding potatoes)	0.108	0.282	6.1
Potatoes and potato products	0.114	0.273	6.5
Pulses	0.009	0.188	0.5
Fruits	0.287	0.934	16.3
Dried fruits, nuts and seeds			
Ice creams, sorbets and frozen desserts			
Chocolate			
Sugars and sugar derivatives			
Water	0.001	0.002	0.1
Soft drinks	0.380	1.537	21.6
Alcoholic beverages	0.001	0.091	0.1
Coffee			
Other hot beverages			
Pizzas, quiches and savoury pastries	0.000	0.004	0.0
Sandwiches and snacks			
Soups and broths	0.027	0.201	1.5
Mixed dishes	0.000	0.004	0.0
Dairy-based desserts	0.003	0.017	0.2
Compotes and cooked fruit	0.044	0.393	2.5
Seasonings and sauces	0.001	0.011	0.1
TOTAL	**1.764**	**3.225**	**100.0**

Table G55: Estimated exposure (mean and P95) in children aged 11 to 14 years to imidazoles (µg/kg bw/day) and contribution of foods (%)

Food group	Imazalil mean (LB)	Imazalil mean (UB)	Imazalil P95 (LB)	Imazalil P95 (UB)	Imazalil contrib (LB)	Imazalil contrib (UB)	Prochloraz mean (UB)	Prochloraz P95 (UB)	Prochloraz contrib (UB)
Bread and dried bread products	0.000	0.138	0.000	0.334	0.0	14.7	0.007	0.017	3.3
Breakfast cereals	0.000	0.035	0.000	0.161	0.0	3.7	0.002	0.008	0.8
Pasta	0.000	0.114	0.000	0.327	0.0	12.1	0.006	0.016	2.7
Rice and wheat products	0.000	0.063	0.000	0.236	0.0	6.7	0.003	0.012	1.5
Croissant-like pastries	0.000	0.040	0.000	0.203	0.0	4.2	0.002	0.010	1.0
Sweet and savoury biscuits and bars	0.000	0.030	0.000	0.126	0.0	3.1	0.002	0.007	0.8
Pastries and cakes	0.000	0.077	0.000	0.274	0.0	8.2	0.004	0.014	1.9
Milk	0.000	0.006	0.000	0.017	0.0	0.6	0.006	0.017	2.8
Ultra-fresh dairy products	0.000	0.002	0.000	0.007	0.0	0.2	0.002	0.007	1.0
Cheese									
Eggs and egg products	0.000	0.000	0.000	0.002	0.0	0.0			
Butter									
Meat	0.000	0.003	0.000	0.007	0.0	0.3			
Poultry and game	0.000	0.002	0.000	0.005	0.0	0.2			
Offal	0.000	0.000	0.000	0.002	0.0	0.0			
Delicatessen meats	0.000	0.002	0.000	0.005	0.0	0.2			
Fish							0.000	0.002	0.2
Crustaceans and molluscs	0.000	0.000	0.002	0.006	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.051	0.000	0.140	0.0	5.4	0.013	0.033	6.1
Potatoes and potato products	0.103	0.122	0.795	0.809	73.4	12.9	0.009	0.023	4.4
Pulses	0.000	0.003	0.000	0.089	0.0	0.4	0.001	0.008	0.3
Fruits	0.025	0.052	0.124	0.172	17.5	5.6	0.014	0.047	7.0
Dried fruits. nuts and seeds	0.000	0.003	0.000	0.050	0.0	0.3	0.000	0.003	0.1
Ice creams. sorbets and frozen desserts	0.000	0.001	0.000	0.050	0.0	0.1	0.000	0.003	0.0
Chocolate	0.000	0.002	0.000	0.011	0.0	0.2	0.002	0.011	0.9
Sugars and sugar derivatives	0.000	0.010	0.000	0.116	0.0	1.0	0.001	0.009	0.4
Water	0.000	0.025	0.000	0.146	0.0	2.7	0.025	0.146	12.1
Soft drinks	0.013	0.093	0.096	0.286	9.1	9.9	0.078	0.237	37.7
Alcoholic beverages	0.000	0.000	0.000	0.025	0.0	0.0	0.000	0.025	0.2
Coffee	0.000	0.001	0.000	0.117	0.0	0.1	0.001	0.117	0.6
Other hot beverages	0.000	0.011	0.000	0.115	0.0	1.2	0.011	0.115	5.5
Pizzas. quiches and savoury pastries	0.000	0.004	0.000	0.019	0.0	0.4	0.002	0.012	1.1
Sandwiches and snacks	0.000	0.002	0.000	0.019	0.0	0.3	0.001	0.011	0.7
Soups and broths	0.000	0.009	0.000	0.059	0.0	1.0	0.006	0.036	2.7
Mixed dishes	0.000	0.009	0.000	0.035	0.0	1.0	0.006	0.021	2.8
Dairy-based desserts	0.000	0.001	0.000	0.008	0.0	0.1	0.001	0.007	0.5
Compotes and cooked fruit	0.000	0.029	0.000	0.203	0.0	3.0	0.001	0.010	0.7
Seasonings and sauces	0.000	0.001	0.000	0.004	0.0	0.1	0.000	0.003	0.2
TOTAL	**0.141**	**0.941**	**0.859**	**1.849**	**100.0**	**100.0**	**0.207**	**0.425**	**100.0**

Table G56: Estimated exposure (mean and P95) in children aged 11 to 14 years to organochlorines (µg/kg bw/day) and contribution of foods (%)

Food group	Chlorothalonil mean (LB)	Chlorothalonil mean (UB)	Chlorothalonil P95 (LB)	Chlorothalonil P95 (UB)	Chlorothalonil contrib (LB)	Chlorothalonil contrib (UB)	Dicofol mean (UB)	Dicofol P95 (UB)	Dicofol contrib (UB)	Endosulfan mean (LB)	Endosulfan mean (UB)	Endosulfan P95 (LB)	Endosulfan P95 (UB)	Endosulfan contrib (LB)	Endosulfan contrib (UB)
Bread and dried bread products	0.000	0.004	0.000	0.010	0.0	3.7	0.010	0.023	4.8	0.000	0.012	0.000	0.030	0.0	2.9
Breakfast cereals	0.000	0.001	0.000	0.005	0.0	0.9	0.002	0.011	1.2	0.000	0.003	0.000	0.014	0.0	0.7
Pasta	0.000	0.003	0.000	0.010	0.0	3.0	0.008	0.023	4.0	0.000	0.010	0.000	0.029	0.0	2.4
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	1.7	0.004	0.017	2.2	0.000	0.006	0.000	0.021	0.0	1.3
Croissant-like pastries	0.000	0.001	0.000	0.006	0.0	1.1	0.003	0.014	1.4	0.000	0.004	0.000	0.018	0.0	0.8
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.006	0.0	1.1	0.002	0.010	1.1	0.000	0.003	0.000	0.015	0.0	0.8
Pastries and cakes	0.000	0.002	0.000	0.008	0.0	2.1	0.005	0.019	2.7	0.000	0.007	0.000	0.024	0.0	1.6
Milk	0.000	0.004	0.000	0.010	0.0	3.1	0.006	0.017	2.9	0.000	0.010	0.000	0.030	0.0	2.5
Ultra-fresh dairy products	0.000	0.002	0.000	0.006	0.0	1.9	0.003	0.007	1.4	0.000	0.004	0.000	0.012	0.0	1.0
Cheese	0.000	0.000	0.000	0.001	0.0	0.3	0.001	0.004	0.6	0.000	0.001	0.000	0.004	0.0	0.3
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.3	0.000	0.001	0.000	0.003	0.0	0.1
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.002	0.3	0.000	0.001	0.000	0.002	0.0	0.1
Meat	0.000	0.003	0.000	0.007	0.0	2.6	0.003	0.007	1.5	0.000	0.003	0.000	0.007	0.0	0.6
Poultry and game	0.000	0.002	0.000	0.005	0.0	1.4	0.002	0.005	0.8	0.000	0.001	0.000	0.005	0.0	0.3
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.000	0.002	0.000	0.005	0.0	1.6	0.002	0.005	0.9	0.000	0.002	0.000	0.005	0.0	0.4
Fish	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.002	0.2	0.000	0.001	0.000	0.003	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Vegetables (excluding potatoes)	0.002	0.008	0.009	0.022	100.0	7.4	0.029	0.076	14.4	0.000	0.083	0.000	0.217	0.0	19.7
Potatoes and potato products	0.000	0.025	0.000	0.095	0.0	22.3	0.013	0.034	6.6	0.000	0.058	0.000	0.165	0.0	13.8
Pulses	0.000	0.001	0.000	0.007	0.0	0.5	0.001	0.013	0.5	0.000	0.005	0.000	0.066	0.0	1.1
Fruits	0.000	0.004	0.000	0.014	0.0	3.9	0.015	0.048	7.5	0.001	0.014	0.008	0.048	100.0	3.4
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.1	0.000	0.000	0.000	0.004	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.004	0.0	0.000	0.000	0.000	0.004	0.0	0.0
Chocolate	0.000	0.000	0.000	0.003	0.0	0.4	0.001	0.005	0.5	0.000	0.001	0.000	0.005	0.0	0.2
Sugars and sugar derivatives	0.000	0.000	0.000	0.003	0.0	0.3	0.001	0.008	0.4	0.000	0.001	0.000	0.010	0.0	0.2
Water	0.000	0.007	0.000	0.036	0.0	6.2	0.013	0.073	6.5	0.000	0.013	0.000	0.073	0.0	3.1
Soft drinks	0.000	0.020	0.000	0.059	0.0	17.5	0.039	0.119	19.6	0.000	0.039	0.000	0.119	0.0	9.4
Alcoholic beverages	0.000	0.000	0.000	0.006	0.0	0.1	0.000	0.013	0.1	0.000	0.000	0.000	0.013	0.0	0.0
Coffee	0.000	0.000	0.000	0.029	0.0	0.3	0.001	0.058	0.3	0.000	0.001	0.000	0.058	0.0	0.1
Other hot beverages	0.000	0.003	0.000	0.029	0.0	2.5	0.006	0.058	2.8	0.000	0.006	0.000	0.058	0.0	1.4
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.7	0.004	0.019	1.8	0.000	0.017	0.000	0.095	0.0	4.1
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	1.1	0.002	0.019	1.2	0.000	0.012	0.000	0.093	0.0	2.8
Soups and broths	0.000	0.005	0.000	0.030	0.0	4.1	0.009	0.059	4.6	0.000	0.046	0.000	0.295	0.0	10.9
Mixed dishes	0.000	0.005	0.000	0.017	0.0	4.4	0.009	0.035	4.6	0.000	0.047	0.000	0.173	0.0	11.1
Dairy-based desserts	0.000	0.001	0.000	0.007	0.0	1.0	0.001	0.009	0.7	0.000	0.003	0.000	0.021	0.0	0.8
Compotes and cooked fruit	0.000	0.001	0.000	0.006	0.0	0.8	0.002	0.014	1.0	0.000	0.003	0.000	0.018	0.0	0.6
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.4	0.001	0.004	0.4	0.000	0.004	0.000	0.020	0.0	0.9
TOTAL	**0.002**	**0.112**	**0.009**	**0.207**	**100.0**	**100.0**	**0.201**	**0.363**	**100.0**	**0.001**	**0.421**	**0.007**	**0.824**	**100.0**	**100.0**

Table G57: Estimated exposure (mean and P95) in children aged 11 to 14 years to organotins (µg/kg bw/day) and contribution of foods (%)

Food group	Cyhexatin mean (UB)	Cyhexatin P95 (UB)	Cyhexatin contrib (UB)	Fenbutatin oxide mean (UB)	Fenbutatin oxide P95 (UB)	Fenbutatin oxide contrib (UB)	Fentin acetate mean (UB)	Fentin acetate P95 (UB)	Fentin acetate contrib (UB)	Fentin hydroxide mean (UB)	Fentin hydroxide P95 (UB)	Fentin hydroxide contrib (UB)
Bread and dried bread products												
Breakfast cereals												
Pasta												
Rice and wheat products												
Croissant-like pastries												
Sweet and savoury biscuits and bars												
Pastries and cakes												
Milk	0.012	0.034	66.9				0.006	0.017	61.7	0.006	0.017	61.7
Ultra-fresh dairy products	0.001	0.012	3.2	0.000	0.003	10.0	0.000	0.006	2.9	0.000	0.006	2.9
Cheese				0.001	0.002	17.8						
Eggs and egg products	0.001	0.005	5.9				0.001	0.003	7.2	0.001	0.003	7.2
Butter				0.000	0.001	8.3						
Meat												
Poultry and game												
Offal												
Delicatessen meats												
Fish	0.001	0.004	5.1	0.000	0.002	12.5	0.000	0.002	4.7	0.000	0.002	4.7
Crustaceans and molluscs	0.000	0.002	0.6	0.000	0.001	1.6	0.000	0.001	0.6	0.000	0.001	0.6
Vegetables (excluding potatoes)												
Potatoes and potato products												
Pulses												
Fruits												
Dried fruits. nuts and seeds												
Ice creams. sorbets and frozen desserts												
Chocolate												
Sugars and sugar derivatives												
Water	0.001	0.002	5.4	0.001	0.002	26.4	0.001	0.002	10.0	0.001	0.002	10.0
Soft drinks												
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas. quiches and savoury pastries												
Sandwiches and snacks												
Soups and broths												
Mixed dishes												
Dairy-based desserts	0.002	0.012	11.9	0.001	0.004	23.4	0.001	0.006	11.7	0.001	0.006	11.7
Compotes and cooked fruit												
Seasonings and sauces	0.000	0.001	0.6				0.000	0.001	0.7	0.000	0.001	0.7
TOTAL	**0.017**	**0.040**	**100.0**	**0.004**	**0.008**	**100.0**	**0.009**	**0.021**	**100.0**	**0.009**	**0.021**	**100.0**

Table G58: Estimated exposure (mean and P95) in children aged 11 to 14 years to organophosphates (µg/kg bw/day) and contribution of foods (%)

Food group	Azinphos methyl mean (LB)	Azinphos methyl mean (UB)	Azinphos methyl P95 (LB)	Azinphos methyl P95 (UB)	Azinphos methyl contrib (LB)	Azinphos methyl contrib (UB)	Chlorfenvinphos mean (LB)	Chlorfenvinphos mean (UB)	Chlorfenvinphos P95 (LB)	Chlorfenvinphos P95 (UB)	Chlorfenvinphos contrib (LB)	Chlorfenvinphos contrib (UB)
Bread and dried bread products	0.000	0.007	0.000	0.017	0.0	2.1	0.000	0.004	0.000	0.010	0.0	4.1
Breakfast cereals	0.000	0.002	0.000	0.008	0.0	0.5	0.000	0.001	0.000	0.005	0.0	1.0
Pasta	0.000	0.006	0.000	0.016	0.0	1.7	0.000	0.003	0.000	0.010	0.0	3.4
Rice and wheat products	0.000	0.003	0.000	0.012	0.0	0.9	0.000	0.002	0.000	0.007	0.0	1.9
Croissant-like pastries	0.000	0.002	0.000	0.010	0.0	0.6	0.000	0.001	0.000	0.006	0.0	1.2
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.009	0.0	0.6	0.000	0.001	0.000	0.004	0.0	1.0
Pastries and cakes	0.000	0.004	0.000	0.014	0.0	1.1	0.000	0.002	0.000	0.008	0.0	2.3
Milk	0.000	0.029	0.000	0.085	0.0	8.7	0.000	0.006	0.000	0.017	0.0	5.8
Ultra-fresh dairy products	0.000	0.011	0.000	0.034	0.0	3.2	0.000	0.002	0.000	0.007	0.0	2.3
Cheese	0.000	0.001	0.000	0.004	0.0	0.4	0.000	0.001	0.000	0.002	0.0	0.6
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.2	0.000	0.000	0.000	0.002	0.0	0.3
Butter	0.000	0.001	0.000	0.002	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.3
Meat	0.000	0.003	0.000	0.007	0.0	0.9	0.000	0.001	0.000	0.004	0.0	1.5
Poultry and game	0.000	0.002	0.000	0.005	0.0	0.5	0.000	0.001	0.000	0.003	0.0	0.8
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.002	0.000	0.005	0.0	0.5	0.000	0.001	0.000	0.003	0.0	0.9
Fish	0.000	0.002	0.000	0.009	0.0	0.7	0.000	0.000	0.000	0.002	0.0	0.4
Crustaceans and molluscs	0.000	0.000	0.000	0.006	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.054	0.000	0.145	0.0	16.0	0.000	0.012	0.000	0.032	100.0	11.9
Potatoes and potato products	0.000	0.038	0.000	0.145	0.0	11.2	0.000	0.007	0.000	0.019	0.0	7.2
Pulses	0.000	0.001	0.000	0.013	0.0	0.3	0.000	0.001	0.000	0.007	0.0	0.5
Fruits	0.001	0.015	0.008	0.051	100.0	4.5	0.000	0.007	0.000	0.023	0.0	7.2
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.002	0.000	0.011	0.0	0.6	0.000	0.000	0.000	0.003	0.0	0.5
Sugars and sugar derivatives	0.000	0.001	0.000	0.009	0.0	0.3	0.000	0.000	0.000	0.003	0.0	0.4
Water	0.000	0.025	0.000	0.146	0.0	7.5	0.000	0.007	0.000	0.036	0.0	6.9
Soft drinks	0.000	0.078	0.000	0.237	0.0	23.2	0.000	0.020	0.000	0.059	0.0	19.5
Alcoholic beverages	0.000	0.000	0.000	0.025	0.0	0.1	0.000	0.000	0.000	0.006	0.0	0.1
Coffee	0.000	0.001	0.000	0.117	0.0	0.4	0.000	0.000	0.000	0.029	0.0	0.3
Other hot beverages	0.000	0.011	0.000	0.115	0.0	3.4	0.000	0.003	0.000	0.029	0.0	2.8
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.020	0.0	1.2	0.000	0.002	0.000	0.010	0.0	1.9
Sandwiches and snacks	0.000	0.002	0.000	0.019	0.0	0.7	0.000	0.001	0.000	0.009	0.0	1.2
Soups and broths	0.000	0.009	0.000	0.059	0.0	2.7	0.000	0.005	0.000	0.030	0.0	4.6
Mixed dishes	0.000	0.010	0.000	0.036	0.0	3.1	0.000	0.005	0.000	0.017	0.0	4.8
Dairy-based desserts	0.000	0.005	0.000	0.024	0.0	1.4	0.000	0.001	0.000	0.007	0.0	1.1
Compotes and cooked fruit	0.000	0.001	0.000	0.010	0.0	0.4	0.000	0.001	0.000	0.006	0.0	0.9
Seasonings and sauces	0.000	0.001	0.000	0.004	0.0	0.2	0.000	0.000	0.000	0.002	0.0	0.4
TOTAL	**0.001**	**0.336**	**0.007**	**0.588**	**100.0**	**100.0**	**0.000**	**0.101**	**0.000**	**0.178**	**100.0**	**100.0**

Food group	Chlorpyrifos ethyl mean (LB)	Chlorpyrifos ethyl mean (UB)	Chlorpyrifos ethyl P95 (LB)	Chlorpyrifos ethyl P95 (UB)	Chlorpyrifos ethyl contrib (LB)	Chlorpyrifos ethyl contrib (UB)	Chlorpyrifos methyl mean (LB)	Chlorpyrifos methyl mean (UB)	Chlorpyrifos methyl P95 (LB)	Chlorpyrifos methyl P95 (UB)	Chlorpyrifos methyl contrib (LB)	Chlorpyrifos methyl contrib (UB)
Bread and dried bread products	0.000	0.004	0.000	0.010	0.0	3.6	0.003	0.010	0.009	0.023	59.0	8.2
Breakfast cereals	0.000	0.001	0.000	0.005	0.0	0.9	0.000	0.001	0.000	0.005	0.0	0.9
Pasta	0.000	0.003	0.000	0.010	0.0	2.9	0.000	0.003	0.000	0.010	0.0	2.9
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	1.6	0.000	0.002	0.001	0.008	1.5	1.8
Croissant-like pastries	0.000	0.001	0.000	0.006	0.0	1.0	0.000	0.002	0.002	0.009	2.9	1.5
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.004	0.0	0.9	0.001	0.004	0.005	0.018	18.2	3.0
Pastries and cakes	0.000	0.002	0.000	0.008	0.0	2.0	0.000	0.002	0.000	0.008	0.0	2.0
Milk	0.000	0.004	0.000	0.010	0.0	3.0	0.000	0.004	0.000	0.010	0.0	3.0
Ultra-fresh dairy products	0.000	0.001	0.000	0.004	0.0	1.2	0.000	0.001	0.000	0.004	0.0	1.2
Cheese	0.000	0.000	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.3
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Meat	0.000	0.001	0.000	0.002	0.0	0.8	0.000	0.001	0.000	0.004	0.0	1.3
Poultry and game	0.000	0.000	0.000	0.002	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.7
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.001	0.000	0.002	0.5	0.5	0.000	0.001	0.000	0.003	0.0	0.7
Fish	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.028	0.001	0.075	2.2	23.8	0.000	0.027	0.000	0.073	0.1	22.9
Potatoes and potato products	0.000	0.007	0.000	0.019	0.0	6.2	0.000	0.007	0.000	0.019	0.0	6.1
Pulses	0.000	0.001	0.000	0.007	0.0	0.4	0.000	0.001	0.002	0.007	0.5	0.5
Fruits	0.007	0.013	0.038	0.053	97.3	11.2	0.000	0.005	0.001	0.016	2.5	4.0
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.000	0.000	0.003	0.0	0.4	0.000	0.000	0.000	0.003	0.0	0.4
Sugars and sugar derivatives	0.000	0.000	0.000	0.003	0.0	0.3	0.000	0.000	0.000	0.003	0.0	0.3
Water	0.000	0.007	0.000	0.036	0.0	6.0	0.000	0.007	0.000	0.036	0.0	5.9
Soft drinks	0.000	0.020	0.000	0.059	0.0	16.8	0.000	0.020	0.000	0.059	0.0	16.6
Alcoholic beverages	0.000	0.000	0.000	0.006	0.0	0.1	0.000	0.000	0.000	0.006	0.0	0.1
Coffee	0.000	0.000	0.000	0.029	0.0	0.3	0.000	0.000	0.000	0.029	0.0	0.3
Other hot beverages	0.000	0.003	0.000	0.029	0.0	2.4	0.000	0.003	0.000	0.029	0.0	2.4
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.6	0.000	0.002	0.000	0.010	0.0	1.5
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	1.0	0.001	0.002	0.008	0.013	11.2	1.3
Soups and broths	0.000	0.005	0.000	0.030	0.0	4.0	0.000	0.005	0.000	0.030	0.0	3.9
Mixed dishes	0.000	0.005	0.000	0.017	0.0	4.1	0.000	0.005	0.002	0.019	4.1	4.1
Dairy-based desserts	0.000	0.001	0.000	0.005	0.0	0.6	0.000	0.001	0.000	0.005	0.0	0.6
Compotes and cooked fruit	0.000	0.001	0.000	0.006	0.0	0.7	0.000	0.001	0.000	0.006	0.0	0.7
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.000	0.000	0.002	0.0	0.3
TOTAL	**0.007**	**0.117**	**0.034**	**0.223**	**100.0**	**100.0**	**0.005**	**0.118**	**0.013**	**0.211**	**100.0**	**100.0**

Food group	Diazinon mean (LB)	Diazinon mean (UB)	Diazinon P95 (LB)	Diazinon P95 (UB)	Diazinon contrib (LB)	Diazinon contrib (UB)	Dichlorvos mean (LB)	Dichlorvos mean (UB)	Dichlorvos P95 (LB)	Dichlorvos P95 (UB)	Dichlorvos contrib (LB)	Dichlorvos contrib (UB)
Bread and dried bread products	0.000	0.010	0.000	0.023	0.0	7.6	0.000	0.007	0.000	0.017	0.0	2.5
Breakfast cereals	0.000	0.002	0.000	0.011	0.0	1.9	0.000	0.002	0.000	0.008	0.0	0.6
Pasta	0.000	0.008	0.000	0.023	0.0	6.2	0.000	0.006	0.000	0.016	0.0	2.1
Rice and wheat products	0.000	0.004	0.000	0.017	0.0	3.5	0.000	0.003	0.000	0.012	0.0	1.1
Croissant-like pastries	0.000	0.003	0.000	0.014	0.0	2.2	0.000	0.002	0.000	0.010	0.0	0.7
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.009	0.0	1.7	0.000	0.003	0.000	0.012	0.0	0.9
Pastries and cakes	0.000	0.005	0.000	0.019	0.0	4.2	0.000	0.004	0.000	0.014	0.0	1.4
Milk	0.000	0.006	0.000	0.017	0.0	4.6	0.000	0.006	0.000	0.017	0.0	2.1
Ultra-fresh dairy products	0.000	0.003	0.000	0.007	0.0	2.1	0.000	0.000	0.000	0.006	0.0	0.1
Cheese	0.000	0.001	0.000	0.004	0.0	1.0						
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.5						
Butter	0.000	0.001	0.000	0.002	0.0	0.5						
Meat	0.000	0.003	0.000	0.007	0.0	2.3						
Poultry and game	0.000	0.002	0.000	0.005	0.0	1.2						
Offal	0.000	0.000	0.000	0.002	0.0	0.0						
Delicatessen meats	0.000	0.002	0.000	0.006	100.0	1.4						
Fish	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.000	0.000	0.002	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.013	0.000	0.035	0.0	10.5	0.000	0.055	0.000	0.145	0.0	20.0
Potatoes and potato products	0.000	0.009	0.000	0.023	0.0	6.8	0.000	0.033	0.000	0.094	0.0	11.9
Pulses	0.000	0.001	0.000	0.009	0.0	0.5	0.000	0.003	0.000	0.040	0.0	1.0
Fruits	0.000	0.004	0.000	0.014	0.0	3.5	0.000	0.014	0.000	0.047	100.0	5.2
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.0
Chocolate	0.000	0.000	0.000	0.003	0.0	0.4	0.000	0.001	0.000	0.005	0.0	0.3
Sugars and sugar derivatives	0.000	0.001	0.000	0.008	0.0	0.6	0.000	0.001	0.000	0.006	0.0	0.2
Water	0.000	0.007	0.000	0.036	0.0	5.5	0.000	0.013	0.000	0.073	0.0	4.7
Soft drinks	0.000	0.020	0.000	0.059	0.0	15.5	0.000	0.039	0.000	0.119	0.0	14.2
Alcoholic beverages	0.000	0.000	0.000	0.006	0.0	0.1	0.000	0.000	0.000	0.013	0.0	0.1
Coffee	0.000	0.000	0.000	0.029	0.0	0.2	0.000	0.001	0.000	0.058	0.0	0.2
Other hot beverages	0.000	0.003	0.000	0.029	0.0	2.2	0.000	0.006	0.000	0.058	0.0	2.1
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.4	0.000	0.010	0.000	0.061	0.0	3.7
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.9	0.000	0.007	0.000	0.056	0.0	2.6
Soups and broths	0.000	0.005	0.000	0.030	0.0	3.6	0.000	0.028	0.000	0.178	0.0	10.0
Mixed dishes	0.000	0.005	0.000	0.017	0.0	3.8	0.000	0.028	0.000	0.109	0.0	10.0
Dairy-based desserts	0.000	0.001	0.000	0.008	0.0	1.0	0.000	0.002	0.000	0.013	0.0	0.7
Compotes and cooked fruit	0.000	0.002	0.000	0.014	0.0	1.6	0.000	0.001	0.000	0.010	0.0	0.5
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.4	0.000	0.002	0.000	0.014	0.0	0.8
TOTAL	**0.000**	**0.128**	**0.000**	**0.216**	**100.0**	**100.0**	**0.000**	**0.277**	**0.000**	**0.539**	**100.0**	**100.0**

Food group	Dimethoate mean (LB)	Dimethoate mean (UB)	Dimethoate P95 (LB)	Dimethoate P95 (UB)	Dimethoate contrib (LB)	Dimethoate contrib (UB)	Disulfoton mean (UB)	Disulfoton P95 (UB)	Disulfoton contrib (UB)	Ethion mean (LB)	Ethion mean (UB)	Ethion P95 (LB)	Ethion P95 (UB)
Bread and dried bread products	0.000	0.048	0.000	0.117	0.0	5.1				0.000	0.007	0.000	0.017
Breakfast cereals	0.000	0.012	0.000	0.056	0.0	1.3				0.000	0.002	0.000	0.008
Pasta	0.000	0.040	0.000	0.114	0.0	4.2				0.000	0.006	0.000	0.016
Rice and wheat products	0.000	0.022	0.000	0.083	0.0	2.3				0.000	0.003	0.000	0.012
Croissant-like pastries	0.000	0.014	0.000	0.071	0.0	1.5				0.000	0.002	0.000	0.010
Sweet and savoury biscuits and bars	0.000	0.012	0.000	0.052	0.0	1.3				0.000	0.002	0.000	0.007
Pastries and cakes	0.000	0.027	0.000	0.096	0.0	2.9				0.000	0.004	0.000	0.014
Milk	0.000	0.023	0.000	0.068	0.0	2.5				0.000	0.006	0.000	0.017
Ultra-fresh dairy products	0.000	0.009	0.000	0.027	0.0	1.0	0.017	0.064	14.9	0.000	0.002	0.000	0.007
Cheese	0.000	0.003	0.000	0.008	0.0	0.3				0.000	0.001	0.000	0.002
Eggs and egg products	0.000	0.001	0.000	0.006	0.0	0.1				0.000	0.000	0.000	0.002
Butter	0.000	0.001	0.000	0.004	0.0	0.1				0.000	0.000	0.000	0.001
Meat	0.000	0.006	0.000	0.014	0.0	0.6				0.000	0.001	0.000	0.004
Poultry and game	0.000	0.003	0.000	0.011	0.0	0.3				0.000	0.001	0.000	0.003
Offal	0.000	0.000	0.000	0.004	0.0	0.0				0.000	0.000	0.000	0.001
Delicatessen meats	0.000	0.003	0.000	0.010	0.0	0.4				0.000	0.001	0.000	0.003
Fish	0.000	0.002	0.000	0.007	0.0	0.2				0.000	0.000	0.000	0.002
Crustaceans and molluscs	0.000	0.000	0.000	0.005	0.0	0.0				0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.000	0.088	0.000	0.231	1.2	9.3	0.020	0.056	17.7	0.000	0.008	0.000	0.019
Potatoes and potato products	0.000	0.064	0.000	0.235	0.0	6.8				0.000	0.009	0.000	0.023
Pulses	0.000	0.003	0.000	0.044	0.0	0.3				0.000	0.001	0.000	0.008
Fruits	0.011	0.061	0.053	0.182	98.8	6.5	0.014	0.047	12.4	0.000	0.005	0.000	0.015
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.018	0.0	0.1				0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.018	0.0	0.0				0.000	0.000	0.000	0.003
Chocolate	0.000	0.007	0.000	0.037	0.0	0.7	0.001	0.005	0.8	0.000	0.000	0.000	0.003
Sugars and sugar derivatives	0.000	0.005	0.000	0.041	0.0	0.5	0.000	0.005	0.2	0.000	0.001	0.000	0.006
Water	0.000	0.088	0.000	0.509	0.0	9.4	0.013	0.073	11.3	0.000	0.007	0.000	0.036
Soft drinks	0.000	0.274	0.000	0.831	0.0	29.2	0.039	0.119	33.8	0.000	0.020	0.000	0.059
Alcoholic beverages	0.000	0.001	0.000	0.088	0.0	0.1	0.000	0.013	0.2	0.000	0.000	0.000	0.006
Coffee	0.000	0.004	0.000	0.409	0.0	0.5	0.001	0.058	0.5	0.000	0.000	0.000	0.029
Other hot beverages	0.000	0.040	0.000	0.403	0.0	4.2	0.006	0.058	5.0	0.000	0.003	0.000	0.029
Pizzas, quiches and savoury pastries	0.000	0.009	0.000	0.046	0.0	0.9	0.001	0.020	1.2	0.000	0.002	0.000	0.010
Sandwiches and snacks	0.000	0.005	0.000	0.043	0.0	0.6				0.000	0.001	0.000	0.009
Soups and broths	0.000	0.021	0.000	0.137	0.0	2.3				0.001	0.006	0.021	0.044
Mixed dishes	0.000	0.024	0.000	0.083	0.0	2.5	0.002	0.018	1.9	0.000	0.005	0.000	0.017
Dairy-based desserts	0.000	0.005	0.000	0.029	0.0	0.5				0.000	0.001	0.000	0.007
Compotes and cooked fruit	0.000	0.010	0.000	0.071	0.0	1.1				0.000	0.001	0.000	0.010
Seasonings and sauces	0.000	0.002	0.000	0.009	0.0	0.2				0.000	0.000	0.000	0.002
TOTAL	**0.011**	**0.940**	**0.006**	**1.786**	**100.0**	**100.0**	**0.115**	**0.220**	**100.0**	**0.002**	**0.107**	**0.008**	**0.189**

Food group	Ethion contrib (LB)	Ethion contrib (UB)	Fenitrothion mean (LB)	Fenitrothion mean (UB)	Fenitrothion P95 (UB)	Fenitrothion contrib (LB)	Fenitrothion contrib (UB)	Fenthion mean (UB)	Fenthion P95 (UB)	Fenthion contrib (UB)	Malathion mean (LB)	Malathion mean (UB)
Bread and dried bread products	0.0	6.4	0.000	0.007	0.017	0.0	5.6	0.007	0.017	3.2	0.000	0.004
Breakfast cereals	0.0	1.6	0.000	0.002	0.008	0.0	1.4	0.002	0.008	0.8	0.000	0.001
Pasta	0.0	5.3	0.000	0.006	0.016	0.0	4.6	0.006	0.016	2.6	0.000	0.003
Rice and wheat products	0.0	2.9	0.000	0.003	0.012	0.0	2.5	0.003	0.012	1.5	0.000	0.002
Croissant-like pastries	0.0	1.9	0.000	0.002	0.010	0.0	1.6	0.002	0.010	0.9	0.000	0.001
Sweet and savoury biscuits and bars	0.0	1.5	0.000	0.002	0.007	0.0	1.3	0.002	0.007	0.8	0.000	0.001
Pastries and cakes	0.0	3.6	0.000	0.004	0.014	0.0	3.1	0.004	0.014	1.8	0.000	0.002
Milk	0.0	5.4	0.000	0.004	0.010	0.0	2.8	0.018	0.051	8.1	0.000	0.006
Ultra-fresh dairy products	0.0	2.2	0.000	0.002	0.004	0.0	1.3	0.011	0.032	5.0	0.000	0.003
Cheese	0.0	0.6	0.000	0.001	0.002	0.0	0.5	0.003	0.008	1.2	0.000	0.001
Eggs and egg products	0.0	0.3	0.000	0.001	0.003	0.0	0.5	0.002	0.010	0.9	0.000	0.001
Butter	0.0	0.3	0.000	0.000	0.001	0.0	0.2	0.001	0.004	0.5	0.000	0.001
Meat	0.0	1.4	0.000	0.001	0.004	0.0	1.2	0.007	0.019	3.4	0.000	0.003
Poultry and game	0.0	0.7	0.000	0.001	0.003	0.0	0.6	0.004	0.014	1.8	0.000	0.002
Offal	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.005	0.1	0.000	0.000
Delicatessen meats	3.2	0.9	0.000	0.001	0.003	0.0	0.7	0.004	0.013	2.0	0.000	0.002
Fish	0.0	0.4	0.000	0.000	0.001	0.0	0.2	0.001	0.005	0.6	0.000	0.000
Crustaceans and molluscs	0.0	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.1	0.000	0.000
Vegetables (excluding potatoes)	0.0	7.0	0.000	0.028	0.075	100.0	22.4	0.023	0.061	10.6	0.000	0.017
Potatoes and potato products	0.0	8.1	0.000	0.007	0.019	0.0	5.8	0.013	0.047	6.1	0.000	0.013
Pulses	0.0	0.5	0.000	0.001	0.008	0.0	0.5	0.001	0.008	0.3	0.000	0.001
Fruits	1.0	4.2	0.000	0.007	0.024	0.0	5.9	0.022	0.070	10.0	0.000	0.012
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.000	0.003	0.0	0.1	0.000	0.003	0.1	0.000	0.000
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.000	0.003	0.0	0.0	0.000	0.003	0.0	0.000	0.000
Chocolate	0.0	0.4	0.000	0.000	0.003	0.0	0.4	0.001	0.005	0.4	0.000	0.001
Sugars and sugar derivatives	0.0	0.5	0.000	0.001	0.006	0.0	0.5	0.001	0.006	0.3	0.000	0.000
Water	0.0	6.5	0.000	0.007	0.036	0.0	5.6	0.013	0.073	6.0	0.000	0.013
Soft drinks	0.0	18.3	0.000	0.020	0.059	0.0	15.9	0.039	0.119	18.1	0.000	0.039
Alcoholic beverages	0.0	0.1	0.000	0.000	0.006	0.0	0.1	0.000	0.013	0.1	0.000	0.000
Coffee	0.0	0.3	0.000	0.000	0.029	0.0	0.2	0.001	0.058	0.3	0.000	0.001
Other hot beverages	0.0	2.7	0.000	0.003	0.029	0.0	2.3	0.006	0.058	2.6	0.000	0.006
Pizzas, quiches and savoury pastries	0.0	1.7	0.000	0.002	0.010	0.0	1.5	0.002	0.012	1.1	0.000	0.004
Sandwiches and snacks	0.0	1.1	0.000	0.001	0.009	0.0	1.0	0.001	0.009	0.5	0.000	0.002
Soups and broths	95.8	5.5	0.000	0.005	0.030	0.0	3.7	0.005	0.030	2.1	0.000	0.009
Mixed dishes	0.0	4.5	0.000	0.005	0.017	0.0	3.8	0.006	0.020	2.6	0.000	0.009
Dairy-based desserts	0.0	1.1	0.000	0.001	0.006	0.0	0.8	0.005	0.028	2.4	0.000	0.001
Compotes and cooked fruit	0.0	1.3	0.000	0.001	0.010	0.0	1.2	0.001	0.010	0.7	0.000	0.001
Seasonings and sauces	0.0	0.4	0.000	0.000	0.002	0.0	0.4	0.001	0.003	0.3	0.000	0.001
TOTAL	**100.0**	**100.0**	**0.000**	**0.124**	**0.223**	**100.0**	**100.0**	**0.216**	**0.372**	**100.0**	**0.000**	**0.164**

Food group	Malathion P95 (LB)	Malathion P95 (UB)	Malathion contrib (LB)	Malathion contrib (UB)	Methidathion mean (UB)	Methidathion P95 (UB)	Methidathion contrib (UB)	Mevinphos mean (UB)	Mevinphos P95 (UB)	Mevinphos contrib (UB)	Monocrotophos mean (UB)	Monocrotophos P95 (UB)	Monocrotophos contrib (UB)
Bread and dried bread products	0.000	0.010	0.0	2.5	0.007	0.017	3.1	0.007	0.017	4.6	0.007	0.017	2.9
Breakfast cereals	0.000	0.005	0.0	0.6	0.002	0.008	0.8	0.002	0.008	1.1	0.002	0.008	0.7
Pasta	0.000	0.010	0.0	2.1	0.006	0.016	2.6	0.006	0.016	3.8	0.006	0.016	2.4
Rice and wheat products	0.000	0.007	0.0	1.2	0.003	0.012	1.4	0.003	0.012	2.1	0.003	0.012	1.3
Croissant-like pastries	0.000	0.006	0.0	0.7	0.002	0.010	0.9	0.002	0.010	1.3	0.002	0.010	0.8
Sweet and savoury biscuits and bars	0.000	0.005	0.0	0.6	0.002	0.009	0.9	0.002	0.007	1.0	0.002	0.007	0.7
Pastries and cakes	0.000	0.008	0.0	1.4	0.004	0.014	1.7	0.004	0.014	2.6	0.004	0.014	1.6
Milk	0.000	0.017	0.0	3.6	0.006	0.017	2.6	0.006	0.017	3.9	0.006	0.017	2.5
Ultra-fresh dairy products	0.000	0.007	0.0	1.7	0.003	0.007	1.2	0.002	0.007	1.6	0.002	0.007	1.0
Cheese	0.000	0.004	0.0	0.8	0.001	0.004	0.6	0.001	0.002	0.4	0.001	0.002	0.3
Eggs and egg products	0.000	0.003	0.0	0.4	0.001	0.003	0.3	0.000	0.002	0.2	0.000	0.002	0.1
Butter	0.000	0.002	0.0	0.4	0.001	0.002	0.3	0.000	0.001	0.2	0.000	0.001	0.1
Meat	0.000	0.007	0.0	1.8	0.003	0.007	1.3	0.001	0.004	0.9	0.001	0.004	0.6
Poultry and game	0.000	0.005	0.0	0.9	0.002	0.005	0.7	0.001	0.003	0.5	0.001	0.003	0.3
Offal	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.005	0.0	1.1	0.002	0.005	0.8	0.001	0.003	0.6	0.001	0.003	0.4
Fish	0.000	0.002	0.0	0.3	0.000	0.002	0.2	0.000	0.002	0.3	0.000	0.002	0.2
Crustaceans and molluscs	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.045	0.0	10.6	0.014	0.037	6.5	0.023	0.061	15.1	0.023	0.061	9.9
Potatoes and potato products	0.000	0.034	0.0	7.9	0.027	0.074	12.3	0.006	0.017	4.3	0.011	0.030	4.8
Pulses	0.000	0.013	0.0	0.6	0.002	0.033	1.1	0.001	0.008	0.4	0.001	0.013	0.4
Fruits	0.000	0.037	0.0	7.1	0.007	0.024	3.3	0.007	0.024	4.8	0.014	0.047	6.1
Dried fruits, nuts and seeds	0.000	0.002	0.0	0.0	0.000	0.003	0.1	0.000	0.003	0.1	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.002	0.0	0.0	0.000	0.003	0.0	0.000	0.003	0.0	0.000	0.003	0.0
Chocolate	0.000	0.005	0.0	0.6	0.001	0.005	0.4	0.001	0.005	0.6	0.002	0.011	0.8
Sugars and sugar derivatives	0.000	0.005	0.0	0.3	0.001	0.006	0.3	0.001	0.006	0.4	0.001	0.009	0.4
Water	0.000	0.073	0.0	8.0	0.013	0.073	5.9	0.013	0.073	8.6	0.025	0.146	10.7
Soft drinks	0.000	0.119	0.0	23.9	0.039	0.119	17.7	0.039	0.119	26.0	0.078	0.237	33.2
Alcoholic beverages	0.000	0.013	0.0	0.1	0.000	0.013	0.1	0.000	0.013	0.1	0.000	0.025	0.2
Coffee	0.000	0.058	0.0	0.4	0.001	0.058	0.3	0.001	0.058	0.4	0.001	0.117	0.5
Other hot beverages	0.000	0.058	0.0	3.5	0.006	0.058	2.6	0.006	0.058	3.8	0.011	0.115	4.8
Pizzas, quiches and savoury pastries	0.000	0.019	0.0	2.2	0.009	0.048	4.0	0.002	0.010	1.2	0.004	0.019	1.5
Sandwiches and snacks	0.000	0.019	0.0	1.5	0.006	0.047	2.7	0.001	0.009	0.8	0.002	0.019	1.0
Soups and broths	0.000	0.059	0.0	5.6	0.023	0.148	10.4	0.005	0.030	3.1	0.009	0.059	3.9
Mixed dishes	0.001	0.035	100.0	5.7	0.023	0.087	10.4	0.005	0.017	3.2	0.009	0.035	4.0
Dairy-based desserts	0.000	0.009	0.0	0.9	0.002	0.011	0.9	0.001	0.007	0.8	0.001	0.008	0.6
Compotes and cooked fruit	0.000	0.006	0.0	0.5	0.001	0.010	0.6	0.001	0.010	0.9	0.001	0.010	0.6
Seasonings and sauces	0.000	0.004	0.0	0.5	0.002	0.010	0.9	0.000	0.002	0.3	0.001	0.004	0.3
TOTAL	**0.001**	**0.294**	**100.0**	**100.0**	**0.221**	**0.423**	**100.0**	**0.151**	**0.275**	**100.0**	**0.235**	**0.451**	**100.0**

Food group	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion mean (UB)	Parathion P95 (UB)	Parathion contrib (UB)	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)	Phosalone mean (LB)	Phosalone mean (UB)	Phosalone P95 (LB)
Bread and dried bread products							0.028	0.067	7.9	0.138	0.334	16.9	0.000	0.004	0.000
Breakfast cereals							0.007	0.032	2.0	0.035	0.161	4.2	0.000	0.001	0.000
Pasta							0.023	0.065	6.5	0.114	0.327	14.0	0.000	0.003	0.000
Rice and wheat products							0.013	0.047	3.6	0.063	0.236	7.7	0.000	0.002	0.000
Croissant-like pastries							0.008	0.041	2.3	0.040	0.203	4.9	0.000	0.001	0.000
Sweet and savoury biscuits and bars				0.000	0.004	0.4	0.006	0.025	1.7	0.029	0.126	3.6	0.000	0.001	0.000
Pastries and cakes							0.015	0.055	4.4	0.077	0.274	9.5	0.000	0.002	0.000
Milk				0.013	0.037	18.0	0.010	0.028	2.8	0.017	0.049	2.1	0.000	0.006	0.000
Ultra-fresh dairy products				0.005	0.015	7.2	0.010	0.032	2.8	0.010	0.028	1.2	0.000	0.003	0.000
Cheese				0.001	0.004	2.0	0.008	0.026	2.3	0.007	0.021	0.8	0.000	0.001	0.000
Eggs and egg products				0.001	0.003	1.1	0.004	0.020	1.2	0.004	0.020	0.5	0.000	0.001	0.000
Butter				0.001	0.002	0.9	0.004	0.012	1.1	0.003	0.010	0.4	0.000	0.001	0.000
Meat				0.003	0.008	4.3	0.019	0.047	5.3	0.018	0.046	2.3	0.000	0.003	0.000
Poultry and game				0.002	0.006	2.4	0.010	0.034	2.8	0.010	0.034	1.2	0.000	0.002	0.000
Offal				0.000	0.002	0.1	0.000	0.012	0.1	0.000	0.012	0.0	0.000	0.000	0.000
Delicatessen meats				0.002	0.006	2.7	0.011	0.032	3.1	0.011	0.032	1.3	0.000	0.002	0.000
Fish				0.001	0.004	1.4	0.001	0.003	0.2	0.001	0.005	0.2	0.000	0.000	0.000
Crustaceans and molluscs				0.000	0.003	0.2	0.000	0.002	0.0	0.000	0.003	0.0	0.000	0.000	0.000
Vegetables (excluding potatoes)	0.020	0.056	94.5	0.001	0.010	1.2	0.051	0.135	14.5	0.050	0.140	6.1	0.000	0.028	0.000
Potatoes and potato products				0.011	0.030	15.9	0.014	0.038	4.1				0.000	0.014	0.000
Pulses				0.001	0.013	1.2	0.001	0.023	0.4	0.002	0.174	0.3	0.000	0.001	0.000
Fruits							0.008	0.026	2.2	0.017	0.058	2.0	0.003	0.016	0.022
Dried fruits, nuts and seeds							0.001	0.010	0.1	0.003	0.050	0.3	0.000	0.000	0.000
Ice creams, sorbets and frozen desserts							0.000	0.010	0.1	0.001	0.050	0.1	0.000	0.000	0.000
Chocolate							0.001	0.005	0.3	0.002	0.011	0.2	0.000	0.001	0.000
Sugars and sugar derivatives							0.002	0.023	0.6	0.010	0.116	1.2	0.000	0.000	0.000
Water	0.001	0.002	4.4	0.001	0.002	1.3	0.013	0.073	3.7	0.025	0.146	3.1	0.000	0.013	0.000
Soft drinks							0.040	0.119	11.4	0.082	0.246	10.1	0.000	0.039	0.000
Alcoholic beverages							0.000	0.013	0.1	0.000	0.025	0.0	0.000	0.000	0.000
Coffee							0.001	0.058	0.2	0.001	0.117	0.1	0.000	0.001	0.000
Other hot beverages							0.006	0.058	1.6	0.011	0.115	1.4	0.000	0.006	0.000
Pizzas, quiches and savoury pastries				0.004	0.020	5.3	0.004	0.020	1.1	0.000	0.006	0.1	0.000	0.004	0.000
Sandwiches and snacks				0.002	0.019	3.3	0.002	0.019	0.7				0.000	0.002	0.000
Soups and broths				0.009	0.059	13.0	0.009	0.059	2.6				0.000	0.009	0.000
Mixed dishes				0.010	0.035	13.6	0.010	0.035	2.8	0.001	0.005	0.1	0.000	0.009	0.000
Dairy-based desserts				0.002	0.015	3.5	0.004	0.027	1.2	0.004	0.027	0.5	0.000	0.001	0.000
Compotes and cooked fruit							0.006	0.041	1.6	0.029	0.203	3.5	0.000	0.001	0.000
Seasonings and sauces				0.001	0.004	1.2	0.001	0.006	0.3	0.000	0.004	0.1	0.000	0.001	0.000
TOTAL	**0.022**	**0.057**	**100.0**	**0.071**	**0.146**	**100.0**	**0.349**	**0.597**	**100.0**	**0.816**	**1.370**	**100.0**	**0.003**	**0.179**	**0.019**

Food group	Phosalone P95 (UB)	Phosalone contrib (LB)	Phosalone contrib (UB)	Phosmet mean (LB)	Phosmet mean (UB)	Phosmet P95 (LB)	Phosmet P95 (UB)	Phosmet contrib (LB)	Phosmet contrib (UB)	Phosphamidon mean (UB)	Phosphamidon P95 (UB)	Phosphamidon contrib (UB)	Pyrimiphos methyl mean (LB)	Pyrimiphos methyl mean (UB)
Bread and dried bread products	0.010	0.0	2.3	0.000	0.007	0.000	0.017	0.0	3.9	0.010	0.023	6.5	0.035	0.035
Breakfast cereals	0.005	0.0	0.6	0.000	0.002	0.000	0.008	0.0	1.0	0.002	0.011	1.6	0.002	0.006
Pasta	0.010	0.0	1.9	0.000	0.006	0.000	0.016	0.0	3.2	0.008	0.023	5.3	0.012	0.024
Rice and wheat products	0.007	0.0	1.1	0.000	0.003	0.000	0.012	0.0	1.8	0.004	0.017	2.9	0.009	0.011
Croissant-like pastries	0.006	0.0	0.7	0.000	0.002	0.000	0.010	0.0	1.1	0.003	0.014	1.9	0.011	0.012
Sweet and savoury biscuits and bars	0.005	0.0	0.6	0.000	0.002	0.000	0.007	0.0	0.9	0.002	0.009	1.4	0.009	0.012
Pastries and cakes	0.008	0.0	1.3	0.000	0.004	0.000	0.014	0.0	2.2	0.005	0.019	3.6	0.006	0.011
Milk	0.017	0.0	3.3	0.000	0.012	0.000	0.034	0.0	6.6	0.006	0.017	3.9	0.000	0.012
Ultra-fresh dairy products	0.007	0.0	1.5	0.000	0.005	0.000	0.015	0.0	3.1	0.002	0.007	1.6	0.000	0.005
Cheese	0.004	0.0	0.7	0.000	0.003	0.000	0.008	0.0	1.4	0.001	0.002	0.4	0.000	0.001
Eggs and egg products	0.003	0.0	0.4	0.000	0.001	0.000	0.006	0.0	0.8	0.000	0.002	0.2	0.000	0.001
Butter	0.002	0.0	0.3	0.000	0.001	0.000	0.004	0.0	0.7	0.000	0.001	0.2	0.000	0.000
Meat	0.007	0.0	1.7	0.000	0.006	0.000	0.015	0.0	3.4	0.001	0.004	0.9	0.000	0.003
Poultry and game	0.005	0.0	0.9	0.000	0.003	0.000	0.011	0.0	1.8	0.001	0.003	0.5	0.000	0.002
Offal	0.002	0.0	0.0	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.001	0.0	0.000	0.000
Delicatessen meats	0.006	0.8	1.0	0.000	0.003	0.000	0.010	0.0	2.0	0.001	0.003	0.6	0.000	0.002
Fish	0.002	0.0	0.2	0.000	0.001	0.000	0.004	0.0	0.5	0.000	0.002	0.3	0.000	0.001
Crustaceans and molluscs	0.001	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.001	0.0	0.000	0.000
Vegetables (excluding potatoes)	0.073	0.0	15.3	0.000	0.008	0.000	0.020	0.0	4.5	0.023	0.061	15.4	0.000	0.027
Potatoes and potato products	0.035	0.0	7.6	0.000	0.009	0.000	0.023	0.0	5.0				0.000	0.009
Pulses	0.013	0.0	0.5	0.000	0.001	0.000	0.013	0.0	0.6	0.000	0.012	0.1	0.000	0.001
Fruits	0.054	99.2	9.2	0.002	0.016	0.016	0.051	100.0	8.9	0.014	0.047	9.7	0.000	0.004
Dried fruits, nuts and seeds	0.002	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.004	0.1	0.000	0.000
Ice creams, sorbets and frozen desserts	0.002	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.004	0.0	0.000	0.000
Chocolate	0.005	0.0	0.5	0.000	0.001	0.000	0.005	0.0	0.5	0.001	0.005	0.6	0.000	0.001
Sugars and sugar derivatives	0.005	0.0	0.3	0.000	0.001	0.000	0.006	0.0	0.4	0.001	0.008	0.6	0.000	0.000
Water	0.073	0.0	7.3	0.000	0.013	0.000	0.073	0.0	7.4	0.013	0.073	8.7	0.000	0.007
Soft drinks	0.119	0.0	21.8	0.000	0.039	0.000	0.119	0.0	22.3	0.039	0.119	26.2	0.000	0.020
Alcoholic beverages	0.013	0.0	0.1	0.000	0.000	0.000	0.013	0.0	0.1	0.000	0.013	0.1	0.000	0.000
Coffee	0.058	0.0	0.3	0.000	0.001	0.000	0.058	0.0	0.3	0.001	0.058	0.4	0.000	0.000
Other hot beverages	0.058	0.0	3.2	0.000	0.006	0.000	0.058	0.0	3.2	0.006	0.058	3.8	0.000	0.003
Pizzas, quiches and savoury pastries	0.019	0.0	2.0	0.000	0.002	0.000	0.010	0.0	1.1	0.000	0.002	0.1	0.003	0.005
Sandwiches and snacks	0.019	0.0	1.3	0.000	0.001	0.000	0.009	0.0	0.7				0.003	0.004
Soups and broths	0.059	0.0	5.2	0.000	0.008	0.000	0.059	0.0	4.8				0.000	0.005
Mixed dishes	0.035	0.0	5.1	0.000	0.005	0.000	0.020	0.0	3.0	0.000	0.002	0.1	0.005	0.009
Dairy-based desserts	0.009	0.0	0.8	0.000	0.002	0.000	0.013	0.0	1.4	0.001	0.005	0.6	0.000	0.002
Compotes and cooked fruit	0.006	0.0	0.5	0.000	0.001	0.000	0.010	0.0	0.8	0.002	0.014	1.3	0.000	0.001
Seasonings and sauces	0.004	0.0	0.5	0.000	0.001	0.000	0.002	0.0	0.3	0.000	0.000	0.0	0.000	0.000
TOTAL	**0.327**	**100.0**	**100.0**	**0.002**	**0.176**	**0.015**	**0.307**	**100.0**	**100.0**	**0.150**	**0.275**	**100.0**	**0.095**	**0.233**

Food group	Pyrimiphos methyl P95 (LB)	Pyrimiphos methyl P95 (UB)	Pyrimiphos methyl contrib (LB)	Pyrimiphos methyl contrib (UB)	Quinalphos mean (UB)	Quinalphos P95 (UB)	Quinalphos contrib (UB)	Sulfotep mean (UB)	Sulfotep P95 (UB)	Sulfotep contrib (UB)	Thiometon mean (UB)	Thiometon P95 (UB)	Thiometon contrib (UB)
Bread and dried bread products	0.088	0.089	36.9	15.1	0.010	0.023	3.9						
Breakfast cereals	0.010	0.037	1.7	2.6	0.002	0.011	1.0						
Pasta	0.033	0.068	12.4	10.2	0.008	0.023	3.2						
Rice and wheat products	0.035	0.040	9.8	4.6	0.004	0.017	1.8						
Croissant-like pastries	0.058	0.064	11.1	5.2	0.003	0.014	1.1						
Sweet and savoury biscuits and bars	0.039	0.051	8.9	5.1	0.003	0.011	1.0						
Pastries and cakes	0.023	0.042	6.2	4.7	0.005	0.019	2.2						
Milk	0.000	0.034	0.0	5.0	0.012	0.034	4.7	0.060	0.173	37.8	0.006	0.017	7.5
Ultra-fresh dairy products	0.004	0.014	0.5	2.0	0.005	0.015	2.2	0.024	0.069	15.2	0.002	0.007	2.6
Cheese	0.000	0.002	0.0	0.3	0.003	0.008	1.0	0.007	0.021	4.1			
Eggs and egg products	0.000	0.003	0.0	0.3	0.001	0.006	0.6	0.002	0.008	1.1	0.000	0.002	0.4
Butter	0.000	0.001	0.0	0.1	0.001	0.004	0.5	0.003	0.009	1.9			
Meat	0.000	0.007	0.0	1.3	0.003	0.007	1.2	0.007	0.019	4.7	0.001	0.004	1.8
Poultry and game	0.000	0.005	0.0	0.7	0.002	0.005	0.6	0.004	0.014	2.5	0.001	0.003	1.0
Offal	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.005	0.1	0.000	0.001	0.0
Delicatessen meats	0.000	0.005	0.0	0.7	0.002	0.005	0.7	0.004	0.013	2.8	0.001	0.003	1.1
Fish	0.000	0.004	0.0	0.4	0.001	0.004	0.4	0.002	0.009	1.4	0.000	0.002	0.6
Crustaceans and molluscs	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.006	0.2	0.000	0.001	0.1
Vegetables (excluding potatoes)	0.000	0.073	0.0	11.6	0.025	0.063	10.0	0.020	0.056	12.9	0.020	0.056	26.1
Potatoes and potato products	0.000	0.023	0.0	3.7	0.026	0.067	10.4						
Pulses	0.005	0.008	0.1	0.3	0.002	0.027	0.8						
Fruits	0.000	0.014	0.0	1.9	0.014	0.047	5.8	0.014	0.047	9.1	0.014	0.047	18.4
Dried fruits, nuts and seeds	0.000	0.002	0.0	0.0	0.000	0.004	0.1						
Ice creams, sorbets and frozen desserts	0.000	0.002	0.0	0.0	0.000	0.004	0.0						
Chocolate	0.001	0.004	0.1	0.2	0.001	0.005	0.4				0.000	0.003	0.6
Sugars and sugar derivatives	0.000	0.003	0.0	0.2	0.001	0.008	0.3				0.000	0.003	0.1
Water	0.000	0.036	0.0	3.0	0.013	0.073	5.2	0.001	0.002	0.6	0.007	0.036	8.9
Soft drinks	0.000	0.059	0.0	8.4	0.039	0.119	15.8				0.019	0.059	25.0
Alcoholic beverages	0.000	0.006	0.0	0.0	0.000	0.013	0.1				0.000	0.006	0.1
Coffee	0.000	0.029	0.0	0.1	0.001	0.058	0.2				0.000	0.029	0.4
Other hot beverages	0.000	0.029	0.0	1.2	0.006	0.058	2.3				0.003	0.029	3.7
Pizzas, quiches and savoury pastries	0.019	0.025	3.6	2.0	0.007	0.039	2.9	0.001	0.021	0.9	0.000	0.002	0.2
Sandwiches and snacks	0.029	0.030	3.0	1.5	0.005	0.037	1.9						
Soups and broths	0.002	0.032	0.1	2.0	0.018	0.119	7.4						
Mixed dishes	0.029	0.037	5.6	3.8	0.019	0.070	7.6	0.002	0.018	1.4	0.000	0.002	0.3
Dairy-based desserts	0.000	0.011	0.0	0.9	0.003	0.018	1.2	0.005	0.026	3.1	0.001	0.005	1.2
Compotes and cooked fruit	0.000	0.006	0.0	0.4	0.002	0.014	0.8						
Seasonings and sauces	0.000	0.002	0.0	0.2	0.002	0.008	0.7	0.000	0.002	0.1	0.000	0.000	0.0
TOTAL	**0.177**	**0.386**	**100.0**	**100.0**	**0.249**	**0.441**	**100.0**	**0.157**	**0.306**	**100.0**	**0.078**	**0.150**	**100.0**

Table G59: Estimated exposure (mean and P95) in children aged 11 to 14 years to persistent organic pollutants (µg/kg bw/day) and contribution of foods (%)

Food group	Chlordane mean (UB)	Chlordane P95 (UB)	Chlordane contrib (UB)	DDT mean (UB)	DDT P95 (UB)	DDT contrib (UB)	Dieldrin mean (UB)	Dieldrin P95 (UB)	Dieldrin contrib (UB)	Endrin mean (UB)	Endrin P95 (UB)	Endrin contrib (UB)
Bread and dried bread products	0.008	0.020	7.6	0.014	0.033	5.4	0.011	0.027	4.8	0.007	0.017	7.4
Breakfast cereals	0.002	0.010	1.9	0.003	0.016	1.3	0.003	0.013	1.2	0.002	0.008	1.9
Pasta	0.007	0.020	6.3	0.011	0.033	4.4	0.009	0.027	4.0	0.006	0.016	6.1
Rice and wheat products	0.004	0.014	3.5	0.006	0.024	2.4	0.005	0.019	2.2	0.003	0.012	3.4
Croissant-like pastries	0.002	0.012	2.2	0.004	0.020	1.6	0.003	0.017	1.4	0.002	0.010	2.1
Sweet and savoury biscuits and bars	0.002	0.008	1.6	0.003	0.013	1.1	0.003	0.012	1.2	0.001	0.006	1.6
Pastries and cakes	0.005	0.016	4.3	0.008	0.027	3.0	0.006	0.022	2.7	0.004	0.014	4.2
Milk	0.023	0.068	21.5	0.025	0.072	9.6	0.010	0.028	4.1	0.004	0.010	3.8
Ultra-fresh dairy products	0.009	0.027	8.0	0.009	0.029	3.6	0.004	0.011	1.7	0.001	0.004	1.5
Cheese	0.001	0.004	1.2	0.002	0.005	0.6	0.001	0.004	0.6	0.000	0.001	0.4
Eggs and egg products	0.001	0.003	0.6	0.001	0.007	0.6	0.001	0.003	0.3	0.000	0.001	0.2
Butter	0.001	0.002	0.5	0.001	0.002	0.3	0.001	0.002	0.3	0.000	0.001	0.2
Meat	0.003	0.007	2.7	0.004	0.009	1.5	0.003	0.008	1.3	0.001	0.002	1.0
Poultry and game	0.002	0.005	1.4	0.002	0.007	0.8	0.002	0.006	0.7	0.000	0.002	0.5
Offal	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.001	0.0
Delicatessen meats	0.002	0.005	1.6	0.002	0.006	0.9	0.002	0.005	0.8	0.001	0.002	0.6
Fish	0.002	0.007	1.6	0.002	0.008	0.7	0.001	0.003	0.3	0.000	0.001	0.3
Crustaceans and molluscs	0.000	0.005	0.2	0.000	0.005	0.1	0.000	0.002	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.023	0.060	20.9	0.067	0.178	26.1	0.015	0.037	6.3	0.022	0.059	24.0
Potatoes and potato products							0.017	0.046	7.3			
Pulses	0.000	0.010	0.1	0.000	0.017	0.1	0.001	0.016	0.5	0.000	0.009	0.1
Fruits	0.004	0.014	4.1	0.023	0.073	8.8	0.009	0.029	3.9	0.004	0.014	4.7
Dried fruits, nuts and seeds	0.000	0.003	0.1	0.000	0.005	0.1	0.000	0.004	0.1	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.003	0.1	0.000	0.005	0.0	0.000	0.004	0.0	0.000	0.003	0.1
Chocolate				0.001	0.005	0.4	0.001	0.008	0.6	0.000	0.003	0.5
Sugars and sugar derivatives	0.001	0.007	0.5	0.001	0.012	0.4	0.001	0.009	0.5	0.001	0.006	0.6
Water	0.001	0.002	0.9	0.013	0.073	5.0	0.019	0.111	8.0	0.007	0.036	7.5
Soft drinks	0.000	0.005	0.3	0.039	0.119	15.3	0.060	0.181	25.6	0.020	0.059	21.2
Alcoholic beverages				0.000	0.013	0.1	0.000	0.019	0.1	0.000	0.006	0.1
Coffee				0.001	0.058	0.2	0.001	0.089	0.4	0.000	0.029	0.3
Other hot beverages				0.006	0.058	2.2	0.009	0.088	3.7	0.003	0.029	3.1
Pizzas, quiches and savoury pastries	0.001	0.008	0.5	0.001	0.009	0.2	0.004	0.024	1.9	0.000	0.001	0.1
Sandwiches and snacks							0.003	0.023	1.2			
Soups and broths							0.011	0.073	4.8			
Mixed dishes	0.001	0.007	0.8	0.001	0.008	0.4	0.012	0.043	5.0	0.000	0.001	0.1
Dairy-based desserts	0.004	0.019	3.3	0.004	0.022	1.6	0.002	0.013	0.9	0.001	0.003	0.6
Compotes and cooked fruit	0.002	0.012	1.6	0.003	0.020	1.1	0.002	0.017	1.0	0.001	0.010	1.5
Seasonings and sauces	0.000	0.001	0.1	0.000	0.002	0.1	0.001	0.005	0.4	0.000	0.000	0.0
TOTAL	**0.109**	**0.205**	**100.0**	**0.258**	**0.486**	**100.0**	**0.233**	**0.416**	**100.0**	**0.093**	**0.168**	**100.0**

Food group	HCB mean (LB)	HCB mean (UB)	HCB P95 (LB)	HCB P95 (UB)	HCB contrib (LB)	HCB contrib (UB)	HCH mean (UB)	HCH P95 (UB)	HCH contrib (UB)	Heptachlor mean (UB)	Heptachlor P95 (UB)	Heptachlor contrib (UB)
Bread and dried bread products	0.000	0.004	0.000	0.010	0.0	4.7	0.012	0.030	6.5	0.017	0.040	7.2
Breakfast cereals	0.000	0.001	0.000	0.005	0.0	1.2	0.003	0.014	1.6	0.004	0.019	1.8
Pasta	0.000	0.003	0.000	0.010	0.0	3.9	0.010	0.029	5.4	0.014	0.039	6.0
Rice and wheat products	0.000	0.002	0.000	0.007	0.0	2.2	0.006	0.021	3.0	0.008	0.028	3.3
Croissant-like pastries	0.000	0.001	0.000	0.006	0.0	1.4	0.004	0.018	1.9	0.005	0.024	2.1
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.004	0.0	1.2	0.003	0.013	1.6	0.004	0.015	1.5
Pastries and cakes	0.000	0.002	0.000	0.008	0.0	2.6	0.007	0.024	3.6	0.009	0.033	4.0
Milk	0.000	0.004	0.000	0.010	0.0	4.0	0.012	0.034	6.2	0.011	0.031	4.6
Ultra-fresh dairy products	0.000	0.001	0.000	0.004	0.0	1.6	0.005	0.014	2.5	0.004	0.012	1.8
Cheese	0.000	0.000	0.000	0.001	0.0	0.4	0.001	0.004	0.7	0.001	0.004	0.5
Eggs and egg products	0.000	0.000	0.000	0.002	0.0	0.4	0.001	0.003	0.4	0.001	0.003	0.3
Butter	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.002	0.3	0.001	0.002	0.2
Meat	0.000	0.001	0.000	0.004	0.0	1.7	0.003	0.007	1.6	0.003	0.007	1.2
Poultry and game	0.000	0.001	0.000	0.003	27.3	0.9	0.002	0.005	0.8	0.001	0.005	0.6
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Delicatessen meats	0.000	0.001	0.000	0.003	72.7	1.1	0.002	0.005	0.9	0.002	0.005	0.7
Fish	0.000	0.000	0.000	0.001	0.0	0.3	0.001	0.004	0.5	0.001	0.003	0.3
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.002	0.1	0.000	0.002	0.0
Vegetables (excluding potatoes)	0.000	0.007	0.000	0.017	0.0	7.6	0.019	0.051	10.0	0.066	0.173	28.7
Potatoes and potato products	0.000	0.006	0.000	0.017	0.0	7.4	0.026	0.067	13.7			
Pulses	0.000	0.001	0.000	0.007	0.0	0.6	0.000	0.015	0.1	0.000	0.021	0.1
Fruits	0.000	0.004	0.000	0.014	0.0	5.0	0.013	0.042	7.0	0.013	0.042	5.7
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.1	0.000	0.006	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.004	0.0	0.000	0.006	0.1
Chocolate	0.000	0.000	0.000	0.003	0.0	0.5	0.001	0.005	0.4	0.001	0.005	0.4
Sugars and sugar derivatives	0.000	0.000	0.000	0.003	0.0	0.4	0.001	0.010	0.5	0.001	0.014	0.6
Water	0.000	0.007	0.000	0.036	0.0	7.9	0.012	0.064	6.2	0.012	0.073	5.4
Soft drinks	0.000	0.020	0.000	0.059	0.0	22.3	0.035	0.105	18.5	0.040	0.119	17.2
Alcoholic beverages	0.000	0.000	0.000	0.006	0.0	0.1	0.000	0.011	0.1	0.000	0.013	0.1
Coffee	0.000	0.000	0.000	0.029	0.0	0.3	0.001	0.052	0.3	0.001	0.058	0.3
Other hot beverages	0.000	0.003	0.000	0.029	0.0	3.2	0.005	0.051	2.7	0.006	0.058	2.5
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	2.1	0.000	0.004	0.2	0.000	0.004	0.1
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	1.4						
Soups and broths	0.000	0.005	0.000	0.030	0.0	5.3						
Mixed dishes	0.000	0.005	0.000	0.018	0.0	5.6	0.000	0.004	0.2	0.000	0.003	0.2
Dairy-based desserts	0.000	0.001	0.000	0.005	0.0	0.9	0.002	0.010	1.0	0.002	0.010	0.8
Compotes and cooked fruit	0.000	0.001	0.000	0.006	0.0	1.0	0.003	0.018	1.3	0.003	0.024	1.5
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.5	0.000	0.001	0.0	0.000	0.001	0.0
TOTAL	**0.000**	**0.088**	**0.001**	**0.153**	**100.0**	**100.0**	**0.188**	**0.321**	**100.0**	**0.230**	**0.425**	**100.0**

Food group	Lindane mean (LB)	Lindane mean (UB)	Lindane P95 (LB)	Lindane P95 (UB)	Lindane contrib (LB)	Lindane contrib (UB)	Toxaphene mean (UB)	Toxaphene P95 (UB)	Toxaphene contrib (UB)
Bread and dried bread products	0.000	0.028	0.000	0.067	0.0	14.4			
Breakfast cereals	0.000	0.007	0.000	0.032	0.0	3.6			
Pasta	0.000	0.023	0.000	0.065	0.0	11.9			
Rice and wheat products	0.000	0.013	0.000	0.047	0.0	6.6			
Croissant-like pastries	0.000	0.008	0.000	0.041	0.0	4.2			
Sweet and savoury biscuits and bars	0.000	0.006	0.000	0.025	0.0	3.1			
Pastries and cakes	0.000	0.015	0.000	0.055	0.0	8.1			
Milk	0.000	0.004	0.000	0.010	0.0	1.8	0.006	0.017	37.8
Ultra-fresh dairy products	0.000	0.001	0.000	0.004	0.0	0.7	0.002	0.007	15.3
Cheese	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.002	4.1
Eggs and egg products	0.000	0.001	0.000	0.003	0.7	0.4	0.000	0.002	2.2
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	1.9
Meat	0.000	0.002	0.000	0.004	1.6	0.8	0.001	0.004	9.6
Poultry and game	0.001	0.002	0.014	0.015	97.7	1.0	0.001	0.003	5.0
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.2
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	0.5	0.001	0.003	5.7
Fish	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.002	2.9
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.4
Vegetables (excluding potatoes)	0.000	0.013	0.000	0.034	0.0	7.0			
Potatoes and potato products	0.000	0.009	0.000	0.023	0.0	4.6			
Pulses	0.000	0.001	0.000	0.019	0.0	0.5			
Fruits	0.000	0.005	0.000	0.017	0.0	2.5			
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.010	0.0	0.3			
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.010	0.0	0.1			
Chocolate	0.000	0.000	0.000	0.003	0.0	0.2			
Sugars and sugar derivatives	0.000	0.002	0.000	0.023	0.0	1.0			
Water	0.000	0.007	0.000	0.036	0.0	3.6	0.001	0.002	6.1
Soft drinks	0.000	0.020	0.000	0.061	0.0	10.7			
Alcoholic beverages	0.000	0.000	0.000	0.006	0.0	0.1			
Coffee	0.000	0.000	0.000	0.029	0.0	0.2			
Other hot beverages	0.000	0.003	0.000	0.029	0.0	1.5			
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	0.9	0.000	0.002	0.9
Sandwiches and snacks	0.000	0.001	0.000	0.009	0.0	0.6			
Soups and broths	0.000	0.005	0.000	0.030	0.0	2.4			
Mixed dishes	0.000	0.005	0.000	0.017	0.0	2.5	0.000	0.002	1.4
Dairy-based desserts	0.000	0.001	0.000	0.006	0.0	0.5	0.001	0.005	6.3
Compotes and cooked fruit	0.000	0.006	0.000	0.041	0.0	3.0			
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000	0.2
TOTAL	**0.001**	**0.191**	**0.009**	**0.319**	**100.0**	**100.0**	**0.015**	**0.029**	**100.0**

Table G60: Estimated exposure (mean and P95) in children aged 11 to 14 years to other pesticide residues (µg/kg bw/day) and contribution of foods (%)

Food group	Biphenyl mean (UB)	Biphenyl P95 (UB)	Biphenyl contrib (UB)	Deltamethrin mean (LB)	Deltamethrin mean (UB)	Deltamethrin P95 (UB)	Deltamethrin contrib (LB)	Deltamethrin contrib (UB)	Diquat mean (UB)	Diquat P95 (UB)	Diquat contrib (UB)	Ethoxyquin mean (LB)	Ethoxyquin mean (UB)	Ethoxyquin P95 (LB)
Bread and dried bread products				0.000	0.010	0.023	0.0	3.5				0.000	0.007	0.000
Breakfast cereals				0.000	0.002	0.011	0.0	0.9				0.000	0.002	0.000
Pasta				0.000	0.008	0.023	0.0	2.9				0.000	0.006	0.000
Rice and wheat products				0.000	0.004	0.017	0.0	1.6				0.000	0.003	0.000
Croissant-like pastries				0.000	0.003	0.014	0.0	1.0				0.000	0.002	0.000
Sweet and savoury biscuits and bars				0.000	0.003	0.015	0.0	1.2				0.000	0.001	0.000
Pastries and cakes				0.000	0.005	0.019	0.0	2.0				0.000	0.004	0.000
Milk				0.000	0.012	0.034	0.0	4.2	0.012	0.034	61.4	0.000	0.117	0.000
Ultra-fresh dairy products				0.000	0.005	0.014	0.0	1.7	0.004	0.013	21.0	0.000	0.006	0.000
Cheese				0.000	0.001	0.004	0.0	0.5						
Eggs and egg products				0.000	0.001	0.003	0.0	0.2						
Butter				0.000	0.001	0.002	0.0	0.2						
Meat				0.000	0.003	0.007	0.0	1.1						
Poultry and game				0.000	0.002	0.005	0.0	0.6						
Offal				0.000	0.000	0.002	0.0	0.0						
Delicatessen meats				0.000	0.002	0.005	0.0	0.6						
Fish				0.000	0.001	0.004	0.0	0.3						
Crustaceans and molluscs				0.000	0.000	0.002	0.0	0.0						
Vegetables (excluding potatoes)				0.000	0.031	0.077	0.0	11.1				0.000	0.012	0.000
Potatoes and potato products				0.000	0.048	0.127	0.0	17.3						
Pulses				0.000	0.002	0.033	0.0	0.9				0.000	0.000	0.000
Fruits	0.007	0.023	19.1	0.000	0.004	0.014	0.0	1.6				0.004	0.004	0.081
Dried fruits, nuts and seeds				0.000	0.000	0.004	0.0	0.1				0.000	0.000	0.000
Ice creams, sorbets and frozen desserts				0.000	0.000	0.004	0.0	0.0				0.000	0.000	0.000
Chocolate	0.000	0.003	1.2	0.000	0.001	0.005	0.0	0.3						
Sugars and sugar derivatives	0.000	0.003	0.3	0.000	0.001	0.008	0.0	0.3				0.000	0.000	0.000
Water	0.007	0.036	18.6	0.000	0.013	0.073	0.0	4.7	0.001	0.002	5.0	0.000	0.001	0.000
Soft drinks	0.019	0.059	52.0	0.000	0.039	0.119	0.0	14.2				0.000	0.000	0.000
Alcoholic beverages	0.000	0.006	0.3	0.000	0.000	0.013	0.0	0.1						
Coffee	0.000	0.029	0.8	0.000	0.001	0.058	0.0	0.2						
Other hot beverages	0.003	0.029	7.6	0.000	0.006	0.058	0.0	2.1						
Pizzas, quiches and savoury pastries				0.000	0.009	0.048	0.0	3.2	0.000	0.004	1.5			
Sandwiches and snacks				0.000	0.006	0.047	0.0	2.2						
Soups and broths				0.000	0.023	0.148	0.0	8.4						
Mixed dishes				0.000	0.023	0.087	0.0	8.3	0.000	0.004	2.3			
Dairy-based desserts				0.000	0.003	0.016	0.0	1.0	0.002	0.009	8.8			
Compotes and cooked fruit				0.000	0.002	0.014	0.0	0.7				0.000	0.002	0.003
Seasonings and sauces				0.000	0.002	0.010	0.0	0.7						
TOTAL	**0.037**	**0.087**	**100.0**	**0.000**	**0.276**	**0.488**	**100.0**	**100.0**	**0.019**	**0.041**	**100.0**	**0.005**	**0.168**	**0.040**

Food group	Ethoxyquin P95 (UB)	Ethoxyquin contrib (LB)	Ethoxyquin contrib (UB)	Fenpropimorph mean (UB)	Fenpropimorph P95 (UB)	Fenpropimorph contrib (UB)	Ofurace mean (UB)	Ofurace P95 (UB)	Ofurace contrib (UB)	Rotenone mean (UB)	Rotenone P95 (UB)	Rotenone contrib (UB)
Bread and dried bread products	0.017	0.0	4.1	0.007	0.017	10.5						
Breakfast cereals	0.008	0.0	1.0	0.002	0.008	2.6						
Pasta	0.016	0.0	3.4	0.006	0.016	8.6						
Rice and wheat products	0.012	0.0	1.9	0.003	0.012	4.8						
Croissant-like pastries	0.010	0.0	1.2	0.002	0.010	3.0						
Sweet and savoury biscuits and bars	0.006	0.0	0.9	0.001	0.006	2.2						
Pastries and cakes	0.014	0.0	2.3	0.004	0.014	5.9						
Milk	0.340	0.0	69.6	0.006	0.017	8.8	0.006	0.017	38.1	0.006	0.017	43.1
Ultra-fresh dairy products	0.123	0.0	3.3	0.002	0.007	3.0	0.002	0.007	15.3	0.002	0.007	14.7
Cheese							0.001	0.002	4.2			
Eggs and egg products							0.000	0.002	2.2	0.000	0.002	2.5
Butter							0.000	0.001	1.9			
Meat							0.001	0.004	9.0	0.001	0.004	10.2
Poultry and game							0.001	0.003	5.0	0.001	0.003	5.7
Offal							0.000	0.001	0.2	0.000	0.001	0.2
Delicatessen meats							0.001	0.003	5.7	0.001	0.003	6.4
Fish							0.000	0.002	2.9			
Crustaceans and molluscs							0.000	0.001	0.4			
Vegetables (excluding potatoes)	0.033	0.0	7.2	0.022	0.059	33.9						
Potatoes and potato products												
Pulses	0.009	0.0	0.1	0.000	0.009	0.2						
Fruits	0.081	94.7	2.6	0.007	0.024	11.0						
Dried fruits, nuts and seeds	0.003	0.0	0.1	0.000	0.003	0.2						
Ice creams, sorbets and frozen desserts	0.003	0.0	0.0	0.000	0.003	0.1						
Chocolate												
Sugars and sugar derivatives	0.006	0.0	0.3	0.000	0.006	0.7						
Water	0.002	0.0	0.6	0.001	0.002	1.4	0.001	0.002	6.1	0.001	0.002	7.0
Soft drinks	0.004	0.0	0.1	0.000	0.004	0.3						
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas, quiches and savoury pastries				0.000	0.002	0.2	0.000	0.002	0.9	0.000	0.002	1.1
Sandwiches and snacks												
Soups and broths												
Mixed dishes				0.000	0.002	0.3	0.000	0.002	1.4	0.000	0.002	1.6
Dairy-based desserts							0.001	0.005	6.3	0.001	0.005	7.2
Compotes and cooked fruit	0.020	5.3	1.3	0.001	0.010	2.2						
Seasonings and sauces							0.000	0.000	0.2	0.000	0.000	0.3
TOTAL	**0.391**	**100.0**	**100.0**	**0.066**	**0.126**	**100.0**	**0.015**	**0.029**	**100.0**	**0.014**	**0.027**	**100.0**

Table G61: Estimated exposure (mean and P95) in children aged 15 to 17 years to carbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Aldicarb mean (UB)	Aldicarb P95 (UB)	Aldicarb contrib (UB)	Carbaryl mean (LB)	Carbaryl mean (UB)	Carbaryl P95 (UB)	Carbaryl contrib (LB)	Carbaryl contrib (UB)	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)
Bread and dried bread products				0.000	0.004	0.010	0.0	4.1	0.000	0.006	0.000	0.017
Breakfast cereals				0.000	0.001	0.003	0.0	0.6	0.000	0.001	0.000	0.005
Pasta				0.000	0.002	0.006	0.0	2.6	0.000	0.004	0.000	0.011
Rice and wheat products				0.000	0.001	0.005	0.0	1.3	0.000	0.002	0.000	0.008
Croissant-like pastries				0.000	0.001	0.004	0.0	0.9	0.000	0.001	0.000	0.007
Sweet and savoury biscuits and bars	0.000	0.004	0.2	0.000	0.001	0.004	0.0	0.7	0.000	0.001	0.000	0.006
Pastries and cakes				0.000	0.001	0.005	0.0	1.6	0.000	0.002	0.000	0.009
Milk	0.045	0.149	26.3	0.000	0.004	0.013	0.0	4.2	0.000	0.004	0.000	0.013
Ultra-fresh dairy products	0.003	0.012	1.9	0.000	0.002	0.006	100.0	1.9	0.000	0.002	0.000	0.006
Cheese	0.001	0.003	0.5	0.000	0.000	0.001	0.0	0.4	0.000	0.000	0.000	0.001
Eggs and egg products	0.003	0.015	1.7	0.000	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001
Butter	0.000	0.001	0.2									
Meat	0.013	0.035	7.6	0.000	0.001	0.003	0.0	1.2	0.000	0.001	0.000	0.003
Poultry and game	0.007	0.030	4.2	0.000	0.001	0.003	0.0	0.7	0.000	0.001	0.000	0.003
Offal	0.000	0.009	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.007	0.022	4.2	0.000	0.001	0.002	0.0	0.7	0.000	0.001	0.000	0.002
Fish	0.001	0.005	0.6	0.000	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001
Crustaceans and molluscs	0.000	0.003	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.002	0.021	0.9	0.000	0.020	0.060	0.0	21.8	0.000	0.010	0.000	0.029
Potatoes and potato products	0.019	0.049	11.0	0.000	0.005	0.013	0.0	5.4	0.000	0.014	0.000	0.036
Pulses	0.002	0.024	1.0	0.000	0.001	0.008	0.0	0.6	0.000	0.001	0.000	0.019
Fruits	0.023	0.079	13.7	0.000	0.006	0.020	0.0	6.3	0.007	0.016	0.051	0.073
Dried fruits, nuts and seeds				0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.005
Ice creams, sorbets and frozen desserts				0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002
Chocolate				0.000	0.000	0.003	0.0	0.5				
Sugars and sugar derivatives	0.000	0.000	0.0	0.000	0.000	0.002	0.0	0.2	0.000	0.000	0.000	0.003
Water	0.001	0.004	0.8	0.000	0.006	0.035	0.0	6.9	0.007	0.008	0.052	0.053
Soft drinks	0.002	0.005	1.1	0.000	0.018	0.053	0.0	19.2	0.000	0.002	0.000	0.007
Alcoholic beverages	0.000	0.002	0.0	0.000	0.001	0.017	0.0	0.7	0.000	0.000	0.000	0.002
Coffee				0.000	0.002	0.029	0.0	1.7				
Other hot beverages	0.000	0.003	0.1	0.000	0.003	0.020	0.0	3.0	0.000	0.000	0.000	0.003
Pizzas, quiches and savoury pastries	0.006	0.035	3.8	0.000	0.002	0.010	0.0	1.8	0.000	0.007	0.000	0.039
Sandwiches and snacks	0.007	0.031	4.2	0.000	0.002	0.008	0.0	2.1	0.000	0.008	0.000	0.033
Soups and broths	0.011	0.074	6.3	0.000	0.003	0.020	0.0	3.1	0.000	0.007	0.000	0.051
Mixed dishes	0.012	0.045	6.9	0.000	0.003	0.012	0.0	3.5	0.000	0.012	0.000	0.049
Dairy-based desserts	0.003	0.018	1.8	0.000	0.001	0.004	0.0	0.7	0.000	0.001	0.000	0.005
Compotes and cooked fruit				0.000	0.000	0.005	0.0	0.5	0.000	0.001	0.000	0.008
Seasonings and sauces	0.001	0.007	0.9	0.000	0.000	0.002	0.0	0.3	0.000	0.001	0.000	0.008
TOTAL	**0.169**	**0.308**	**100.0**	**0.000**	**0.093**	**0.170**	**100.0**	**100.0**	**0.014**	**0.116**	**0.078**	**0.206**

Food group	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Carbetamide mean (UB)	Carbetamide P95 (UB)	Carbetamide contrib (UB)	Carbofuran mean (LB)	Carbofuran mean (UB)	Carbofuran P95 (LB)	Carbofuran P95 (UB)	Carbofuran contrib (LB)	Carbofuran contrib (UB)
Bread and dried bread products	0.0	5.4				0.000	0.006	0.000	0.017	0.0	6.5
Breakfast cereals	0.0	0.9				0.000	0.001	0.000	0.005	0.0	1.0
Pasta	0.0	3.5				0.000	0.004	0.000	0.011	0.0	4.1
Rice and wheat products	0.0	1.8				0.000	0.002	0.000	0.008	0.0	2.1
Croissant-like pastries	0.0	1.2				0.000	0.001	0.000	0.007	0.0	1.5
Sweet and savoury biscuits and bars	0.0	1.0				0.000	0.001	0.000	0.006	0.0	1.1
Pastries and cakes	0.0	2.1				0.000	0.002	0.000	0.009	0.0	2.5
Milk	0.0	3.4	0.004	0.013	35.9	0.000	0.004	0.000	0.013	0.0	4.0
Ultra-fresh dairy products	0.0	1.5	0.002	0.006	16.1	0.000	0.002	0.000	0.006	0.0	1.5
Cheese	0.0	0.3	0.000	0.001	3.7						
Eggs and egg products	0.0	0.2	0.000	0.001	2.5	0.000	0.000	0.000	0.001	0.0	0.3
Butter			0.000	0.001	1.8						
Meat	0.0	1.0	0.001	0.003	10.4	0.000	0.001	0.000	0.003	0.0	1.2
Poultry and game	0.0	0.5	0.001	0.003	5.7	0.000	0.001	0.000	0.003	0.0	0.6
Offal	0.0	0.0	0.000	0.001	0.1	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.0	0.5	0.001	0.002	5.7	0.000	0.001	0.000	0.002	0.0	0.6
Fish	0.0	0.3	0.000	0.001	2.7	0.000	0.000	0.000	0.001	0.0	0.3
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.4	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.0	8.7				0.000	0.017	0.000	0.049	100.0	17.6
Potatoes and potato products	0.0	11.8				0.000	0.005	0.000	0.013	0.0	5.2
Pulses	0.0	1.1				0.000	0.001	0.000	0.009	0.0	0.6
Fruits	50.7	13.8				0.000	0.006	0.000	0.020	0.0	6.1
Dried fruits, nuts and seeds	0.0	0.1				0.000	0.000	0.000	0.005	0.0	0.2
Ice creams, sorbets and frozen desserts	0.0	0.0				0.000	0.000	0.000	0.002	0.0	0.0
Chocolate						0.000	0.000	0.000	0.003	0.0	0.5
Sugars and sugar derivatives	0.0	0.2				0.000	0.000	0.000	0.003	0.0	0.3
Water	49.3	7.0	0.001	0.002	6.9	0.000	0.006	0.000	0.035	0.0	6.6
Soft drinks	0.0	1.9				0.000	0.018	0.000	0.053	0.0	18.5
Alcoholic beverages	0.0	0.1				0.000	0.001	0.000	0.017	0.0	0.6
Coffee						0.000	0.002	0.000	0.029	0.0	1.7
Other hot beverages	0.0	0.1				0.000	0.003	0.000	0.020	0.0	2.9
Pizzas, quiches and savoury pastries	0.0	5.9	0.000	0.001	0.8	0.000	0.002	0.000	0.009	0.0	1.9
Sandwiches and snacks	0.0	6.6				0.000	0.002	0.000	0.008	0.0	2.0
Soups and broths	0.0	6.4				0.000	0.003	0.000	0.020	0.0	2.9
Mixed dishes	0.0	10.7	0.000	0.001	1.5	0.000	0.003	0.000	0.012	0.0	3.4
Dairy-based desserts	0.0	0.6	0.001	0.004	5.4	0.000	0.001	0.000	0.004	0.0	0.6
Compotes and cooked fruit	0.0	0.7				0.000	0.001	0.000	0.008	0.0	0.8
Seasonings and sauces	0.0	0.7	0.000	0.000	0.3	0.000	0.000	0.000	0.002	0.0	0.3
TOTAL	**100.0**	**100.0**	**0.011**	**0.022**	**100.0**	**0.000**	**0.097**	**0.000**	**0.181**	**100.0**	**100.0**

Food group	Methomyl mean (LB)	Methomyl mean (UB)	Methomyl P95 (LB)	Methomyl P95 (UB)	Methomyl contrib (LB)	Methomyl contrib (UB)	Triallate mean (UB)	Triallate P95 (UB)	Triallate contrib (UB)
Bread and dried bread products									
Breakfast cereals									
Pasta									
Rice and wheat products									
Croissant-like pastries									
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.002	0.0	0.3			
Pastries and cakes									
Milk	0.000	0.006	0.000	0.019	0.0	11.4	0.002	0.008	33.3
Ultra-fresh dairy products	0.000	0.003	0.000	0.009	0.0	5.1	0.001	0.004	15.0
Cheese	0.000	0.001	0.000	0.002	0.0	1.2	0.000	0.001	3.5
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.6	0.000	0.001	3.9
Butter	0.000	0.000	0.000	0.001	0.0	0.6	0.000	0.000	1.7
Meat	0.000	0.001	0.000	0.003	0.0	2.3	0.001	0.002	10.2
Poultry and game	0.000	0.001	0.000	0.003	0.0	1.2	0.000	0.002	5.3
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.1
Delicatessen meats	0.000	0.001	0.000	0.002	0.0	1.2	0.000	0.001	5.3
Fish	0.000	0.000	0.000	0.001	0.0	0.6	0.000	0.001	2.5
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.4
Vegetables (excluding potatoes)	0.000	0.001	0.000	0.008	0.0	1.2			
Potatoes and potato products	0.000	0.007	0.000	0.019	0.0	14.8			
Pulses	0.000	0.001	0.000	0.010	0.0	1.4			
Fruits	0.000	0.009	0.000	0.030	100.0	17.7			
Dried fruits, nuts and seeds									
Ice creams, sorbets and frozen desserts									
Chocolate									
Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0.0	0.0			
Water	0.000	0.002	0.000	0.006	0.0	3.2	0.001	0.002	10.7
Soft drinks	0.000	0.003	0.000	0.008	0.0	5.2			
Alcoholic beverages	0.000	0.000	0.000	0.002	0.0	0.2			
Coffee									
Other hot beverages	0.000	0.000	0.000	0.004	0.0	0.3			
Pizzas, quiches and savoury pastries	0.000	0.003	0.000	0.014	0.0	5.3	0.000	0.001	0.8
Sandwiches and snacks	0.000	0.003	0.000	0.012	0.0	5.6			
Soups and broths	0.000	0.004	0.000	0.029	0.0	8.4			
Mixed dishes	0.000	0.005	0.000	0.018	0.0	9.6	0.000	0.001	1.4
Dairy-based desserts	0.000	0.001	0.000	0.006	0.0	1.7	0.000	0.002	5.7
Compotes and cooked fruit									
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.9	0.000	0.000	0.5
TOTAL	**0.000**	**0.050**	**0.000**	**0.091**	**100.0**	**100.0**	**0.007**	**0.014**	**100.0**

Table G62: Estimated exposure (mean and P95) in children aged 15 to 17 years to dicarboximides (µg/kg bw/day) and contribution of foods (%)

Food group	Folpet mean (LB)	Folpet mean (UB)	Folpet P95 (UB)	Folpet contrib (LB)	Folpet contrib (UB)	Iprodione mean (LB)	Iprodione mean (UB)	Iprodione P95 (LB)	Iprodione P95 (UB)	Iprodione contrib (LB)	Iprodione contrib (UB)
Bread and dried bread products	0.000	0.006	0.017	0.0	2.5	0.000	0.006	0.000	0.017	0.0	2.0
Breakfast cereals	0.000	0.001	0.005	0.0	0.4	0.000	0.001	0.000	0.005	0.0	0.3
Pasta	0.000	0.004	0.011	0.0	1.6	0.000	0.004	0.000	0.011	0.0	1.3
Rice and wheat products	0.000	0.002	0.008	0.0	0.8	0.000	0.002	0.000	0.008	0.0	0.6
Croissant-like pastries	0.000	0.001	0.007	0.0	0.6	0.000	0.001	0.000	0.007	0.0	0.5
Sweet and savoury biscuits and bars	0.000	0.001	0.008	0.0	0.5	0.000	0.001	0.000	0.006	0.0	0.4
Pastries and cakes	0.000	0.002	0.009	0.0	1.0	0.000	0.002	0.000	0.009	0.0	0.8
Milk	0.000	0.016	0.052	0.0	6.2	0.000	0.016	0.000	0.052	0.0	4.9
Ultra-fresh dairy products	0.000	0.009	0.032	0.0	3.4	0.000	0.009	0.000	0.032	0.0	2.7
Cheese	0.000	0.004	0.014	0.0	1.6	0.000	0.004	0.000	0.014	0.0	1.3
Eggs and egg products	0.000	0.003	0.014	0.0	1.1	0.000	0.003	0.000	0.014	0.0	0.9
Butter	0.000	0.002	0.007	0.0	0.8	0.000	0.002	0.000	0.007	0.0	0.6
Meat	0.000	0.012	0.033	0.0	4.8	0.000	0.012	0.000	0.033	0.0	3.7
Poultry and game	0.000	0.006	0.026	0.0	2.5	0.000	0.006	0.000	0.026	0.0	1.9
Offal	0.000	0.000	0.008	0.0	0.1	0.000	0.000	0.000	0.008	0.0	0.0
Delicatessen meats	0.000	0.006	0.019	0.0	2.5	0.000	0.006	0.000	0.019	0.0	1.9
Fish	0.000	0.001	0.005	0.0	0.5	0.000	0.001	0.000	0.005	0.0	0.4
Crustaceans and molluscs	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.018	0.050	0.0	7.0	0.119	0.126	0.486	0.513	89.4	39.7
Potatoes and potato products	0.000	0.073	0.242	0.0	29.0	0.000	0.011	0.000	0.028	0.0	3.4
Pulses	0.000	0.001	0.011	0.0	0.3	0.000	0.001	0.000	0.015	0.0	0.3
Fruits	0.000	0.004	0.013	100.0	1.6	0.011	0.016	0.079	0.089	8.1	5.0
Dried fruits, nuts and seeds	0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.000	0.005	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.001	0.006	0.0	0.4	0.000	0.001	0.000	0.006	0.0	0.3
Sugars and sugar derivatives	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Water	0.000	0.012	0.070	0.0	4.8	0.000	0.012	0.000	0.070	0.0	3.8
Soft drinks	0.000	0.036	0.107	0.0	14.3	0.000	0.036	0.000	0.107	0.0	11.2
Alcoholic beverages	0.000	0.001	0.033	0.0	0.5	0.001	0.002	0.033	0.050	0.4	0.5
Coffee	0.000	0.003	0.057	0.0	1.3	0.000	0.003	0.000	0.057	0.0	1.0
Other hot beverages	0.000	0.006	0.039	0.0	2.2	0.000	0.006	0.000	0.039	0.0	1.8
Pizzas, quiches and savoury pastries	0.000	0.003	0.013	0.0	1.1	0.000	0.004	0.000	0.019	0.0	1.2
Sandwiches and snacks	0.000	0.003	0.012	0.0	1.1	0.003	0.007	0.031	0.040	2.1	2.0
Soups and broths	0.000	0.004	0.028	0.0	1.6	0.000	0.006	0.000	0.040	0.0	1.8
Mixed dishes	0.000	0.005	0.018	0.0	2.0	0.000	0.007	0.000	0.025	0.0	2.1
Dairy-based desserts	0.000	0.003	0.020	0.0	1.2	0.000	0.003	0.000	0.020	0.0	1.0
Compotes and cooked fruit	0.000	0.001	0.008	0.0	0.3	0.000	0.001	0.000	0.008	0.0	0.2
Seasonings and sauces	0.000	0.001	0.003	0.0	0.3	0.000	0.001	0.000	0.005	0.0	0.3
TOTAL	**0.000**	**0.251**	**0.494**	**100.0**	**100.0**	**0.133**	**0.318**	**0.518**	**0.826**	**100.0**	**100.0**

Food group	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.006	0.000	0.017	0.0	2.9
Breakfast cereals	0.000	0.001	0.000	0.005	0.0	0.5
Pasta	0.000	0.004	0.000	0.011	0.0	1.8
Rice and wheat products	0.000	0.002	0.000	0.008	0.0	0.9
Croissant-like pastries	0.000	0.001	0.000	0.007	0.0	0.7
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.006	0.0	0.5
Pastries and cakes	0.000	0.002	0.000	0.009	0.0	1.1
Milk	0.000	0.041	0.000	0.139	0.0	19.0
Ultra-fresh dairy products	0.000	0.019	0.000	0.065	0.0	8.5
Cheese	0.000	0.004	0.000	0.015	0.0	2.0
Eggs and egg products	0.000	0.003	0.000	0.016	0.0	1.4
Butter	0.000	0.002	0.000	0.007	0.0	0.9
Meat	0.000	0.013	0.000	0.035	0.0	5.8
Poultry and game	0.000	0.007	0.000	0.028	0.0	3.0
Offal	0.000	0.000	0.000	0.009	0.0	0.1
Delicatessen meats	0.000	0.007	0.000	0.020	0.0	3.0
Fish	0.000	0.003	0.000	0.013	0.0	1.4
Crustaceans and molluscs	0.000	0.000	0.000	0.008	0.0	0.2
Vegetables (excluding potatoes)	0.002	0.038	0.014	0.110	100.0	17.6
Potatoes and potato products	0.000	0.006	0.000	0.015	0.0	2.7
Pulses	0.000	0.001	0.000	0.009	0.0	0.2
Fruits	0.000	0.006	0.000	0.020	0.0	2.7
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.005	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.000	0.000	0.003	0.0	0.2
Sugars and sugar derivatives	0.000	0.000	0.000	0.003	0.0	0.1
Water	0.000	0.006	0.000	0.035	0.0	2.9
Soft drinks	0.000	0.018	0.000	0.053	0.0	8.2
Alcoholic beverages	0.000	0.001	0.000	0.017	0.0	0.3
Coffee	0.000	0.002	0.000	0.029	0.0	0.7
Other hot beverages	0.000	0.003	0.000	0.020	0.0	1.3
Pizzas, quiches and savoury pastries	0.000	0.003	0.000	0.014	0.0	1.2
Sandwiches and snacks	0.000	0.002	0.000	0.008	0.0	0.9
Soups and broths	0.000	0.003	0.000	0.020	0.0	1.3
Mixed dishes	0.000	0.005	0.000	0.017	0.0	2.2
Dairy-based desserts	0.000	0.006	0.000	0.040	0.0	2.9
Compotes and cooked fruit	0.000	0.001	0.000	0.008	0.0	0.4
Seasonings and sauces	0.000	0.001	0.000	0.004	0.0	0.3
TOTAL	**0.002**	**0.218**	**0.011**	**0.377**	**100.0**	**100.0**

Table G63: Estimated exposure (mean and P95) in children aged 15 to 17 years to dithiocarbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Dithiocarbamates mean (UB)	Dithiocarbamates P95 (UB)	Dithiocarbamates contrib (UB)
Bread and dried bread products	0.252	0.684	18.1
Breakfast cereals	0.040	0.200	2.9
Pasta	0.161	0.423	11.6
Rice and wheat products	0.082	0.333	5.9
Croissant-like pastries	0.034	0.253	2.5
Sweet and savoury biscuits and bars	0.009	0.071	0.6
Pastries and cakes	0.019	0.174	1.4
Milk	0.008	0.026	0.6
Ultra-fresh dairy products	0.003	0.011	0.2
Cheese			
Eggs and egg products			
Butter			
Meat			
Poultry and game			
Offal			
Delicatessen meats			
Fish			
Crustaceans and molluscs			
Vegetables (excluding potatoes)	0.081	0.227	5.8
Potatoes and potato products	0.087	0.236	6.2
Pulses	0.008	0.121	0.5
Fruits	0.232	0.790	16.7
Dried fruits, nuts and seeds			
Ice creams, sorbets and frozen desserts			
Chocolate			
Sugars and sugar derivatives			
Water	0.001	0.002	0.1
Soft drinks	0.319	1.328	22.9
Alcoholic beverages	0.010	0.667	0.7
Coffee			
Other hot beverages			
Pizzas, quiches and savoury pastries	0.000	0.003	0.0
Sandwiches and snacks			
Soups and broths	0.016	0.122	1.2
Mixed dishes	0.000	0.002	0.0
Dairy-based desserts	0.002	0.012	0.1
Compotes and cooked fruit	0.024	0.298	1.7
Seasonings and sauces	0.001	0.012	0.1
TOTAL	**1.390**	**2.634**	**100.0**

Table G64: Estimated exposure (mean and P95) in children aged 15 to 17 years to imidazoles (µg/kg bw/day) and contribution of foods (%)

Food group	Imazalil mean (LB)	Imazalil mean (UB)	Imazalil P95 (LB)	Imazalil P95 (UB)	Imazalil contrib (LB)	Imazalil contrib (UB)	Prochloraz mean (UB)	Prochloraz P95 (UB)	Prochloraz contrib (UB)
Bread and dried bread products	0.000	0.126	0.000	0.342	0.0	16.4	0.006	0.017	3.4
Breakfast cereals	0.000	0.020	0.000	0.100	0.0	2.6	0.001	0.005	0.5
Pasta	0.000	0.080	0.000	0.212	0.0	10.4	0.004	0.011	2.2
Rice and wheat products	0.000	0.041	0.000	0.167	0.0	5.3	0.002	0.008	1.1
Croissant-like pastries	0.000	0.029	0.000	0.138	0.0	3.7	0.001	0.007	0.8
Sweet and savoury biscuits and bars	0.000	0.019	0.000	0.116	0.0	2.5	0.001	0.006	0.6
Pastries and cakes	0.000	0.049	0.000	0.172	0.0	6.4	0.002	0.009	1.3
Milk	0.000	0.004	0.000	0.013	0.0	0.5	0.004	0.013	2.1
Ultra-fresh dairy products	0.000	0.002	0.000	0.006	0.0	0.2	0.002	0.006	0.8
Cheese									
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.0			
Butter									
Meat	0.000	0.002	0.000	0.006	0.0	0.3			
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.2			
Offal	0.000	0.000	0.000	0.002	0.0	0.0			
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	0.2			
Fish							0.000	0.001	0.2
Crustaceans and molluscs	0.000	0.000	0.002	0.005	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.038	0.000	0.113	0.0	5.0	0.010	0.026	5.2
Potatoes and potato products	0.122	0.138	0.879	0.884	79.5	17.9	0.007	0.018	3.8
Pulses	0.000	0.002	0.000	0.057	0.0	0.3	0.001	0.010	0.3
Fruits	0.018	0.041	0.125	0.186	11.5	5.4	0.012	0.039	6.4
Dried fruits, nuts and seeds	0.000	0.003	0.000	0.096	0.0	0.4	0.000	0.005	0.1
Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.042	0.0	0.1	0.000	0.002	0.0
Chocolate	0.000	0.002	0.000	0.012	0.0	0.2	0.002	0.012	1.0
Sugars and sugar derivatives	0.000	0.004	0.000	0.063	0.0	0.6	0.000	0.004	0.2
Water	0.000	0.023	0.000	0.139	0.0	3.0	0.023	0.139	12.7
Soft drinks	0.014	0.086	0.121	0.273	9.0	11.1	0.071	0.213	38.8
Alcoholic beverages	0.000	0.002	0.000	0.067	0.0	0.3	0.002	0.067	1.4
Coffee	0.000	0.006	0.000	0.114	0.0	0.8	0.006	0.114	3.5
Other hot beverages	0.000	0.011	0.000	0.079	0.0	1.4	0.011	0.079	6.1
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.019	0.0	0.5	0.002	0.011	1.2
Sandwiches and snacks	0.000	0.004	0.000	0.017	0.0	0.5	0.002	0.010	1.2
Soups and broths	0.000	0.006	0.000	0.040	0.0	0.7	0.003	0.024	1.9
Mixed dishes	0.000	0.006	0.000	0.024	0.0	0.8	0.004	0.015	2.2
Dairy-based desserts	0.000	0.001	0.000	0.005	0.0	0.1	0.000	0.003	0.3
Compotes and cooked fruit	0.000	0.016	0.000	0.158	0.0	2.0	0.001	0.008	0.4
Seasonings and sauces	0.000	0.001	0.000	0.004	0.0	0.1	0.000	0.003	0.2
TOTAL	**0.154**	**0.771**	**0.830**	**1.616**	**100.0**	**100.0**	**0.184**	**0.405**	**100.0**

Table G65: Estimated exposure (mean and P95) in children aged 15 to 17 years to organochlorines (µg/kg bw/day) and contribution of foods (%)

Food group	Chlorothalonil mean (LB)	Chlorothalonil mean (UB)	Chlorothalonil P95 (LB)	Chlorothalonil P95 (UB)	Chlorothalonil contrib (LB)	Chlorothalonil contrib (UB)	Dicofol mean (UB)	Dicofol P95 (UB)	Dicofol contrib (UB)	Endosulfan mean (LB)	Endosulfan mean (UB)	Endosulfan P95 (LB)	Endosulfan P95 (UB)	Endosulfan contrib (LB)	Endosulfan contrib (UB)
Bread and dried bread products	0.000	0.004	0.000	0.010	0.000	3.918	0.009	0.024	5.324	0.000	0.011	0.000	0.030	0.000	3.359
Breakfast cereals	0.000	0.001	0.000	0.003	0.000	0.624	0.001	0.007	0.848	0.000	0.002	0.000	0.009	0.000	0.535
Pasta	0.000	0.002	0.000	0.006	0.000	2.496	0.006	0.015	3.392	0.000	0.007	0.000	0.019	0.000	2.140
Rice and wheat products	0.000	0.001	0.000	0.005	0.000	1.281	0.003	0.012	1.740	0.000	0.004	0.000	0.015	0.000	1.098
Croissant-like pastries	0.000	0.001	0.000	0.004	0.000	0.892	0.002	0.010	1.212	0.000	0.003	0.000	0.012	0.000	0.765
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.005	0.000	0.925	0.001	0.008	0.893	0.000	0.002	0.000	0.011	0.000	0.676
Pastries and cakes	0.000	0.001	0.000	0.005	0.000	1.536	0.003	0.012	2.087	0.000	0.004	0.000	0.015	0.000	1.316
Milk	0.000	0.002	0.000	0.008	0.000	2.426	0.004	0.013	2.355	0.000	0.007	0.000	0.023	0.000	2.080
Ultra-fresh dairy products	0.000	0.002	0.000	0.006	0.000	1.661	0.002	0.007	1.211	0.000	0.003	0.000	0.011	0.000	0.935
Cheese	0.000	0.000	0.000	0.001	0.000	0.252	0.001	0.003	0.489	0.000	0.001	0.000	0.003	0.000	0.216
Eggs and egg products	0.000	0.000	0.000	0.001	0.000	0.172	0.001	0.003	0.334	0.000	0.000	0.000	0.003	0.000	0.147
Butter	0.000	0.000	0.000	0.000	0.000	0.121	0.000	0.001	0.235	0.000	0.000	0.000	0.001	0.000	0.104
Meat	0.000	0.002	0.000	0.007	0.000	2.468	0.002	0.007	1.437	0.000	0.002	0.000	0.006	0.000	0.635
Poultry and game	0.000	0.001	0.000	0.005	0.000	1.277	0.001	0.005	0.744	0.000	0.001	0.000	0.005	0.000	0.328
Offal	0.000	0.000	0.000	0.002	0.000	0.029	0.000	0.002	0.017	0.000	0.000	0.000	0.001	0.000	0.008
Delicatessen meats	0.000	0.001	0.000	0.004	0.000	1.280	0.001	0.004	0.745	0.000	0.001	0.000	0.003	0.000	0.329
Fish	0.000	0.000	0.000	0.001	0.000	0.181	0.000	0.001	0.176	0.000	0.001	0.000	0.002	0.000	0.155
Crustaceans and molluscs	0.000	0.000	0.000	0.000	0.000	0.027	0.000	0.001	0.026	0.000	0.000	0.000	0.001	0.000	0.023
Vegetables (excluding potatoes)	0.001	0.007	0.008	0.020	100.000	6.870	0.022	0.062	13.097	0.000	0.063	0.000	0.188	0.000	18.823
Potatoes and potato products	0.000	0.024	0.000	0.095	0.000	24.521	0.011	0.028	6.566	0.000	0.044	0.000	0.118	0.000	13.051
Pulses	0.000	0.001	0.000	0.008	0.000	0.533	0.001	0.016	0.628	0.000	0.005	0.000	0.069	0.000	1.445
Fruits	0.000	0.004	0.000	0.012	0.000	3.704	0.012	0.041	7.397	0.001	0.012	0.005	0.044	100.000	3.455
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.000	0.101	0.000	0.007	0.137	0.000	0.000	0.000	0.009	0.000	0.086
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.000	0.018	0.000	0.003	0.024	0.000	0.000	0.000	0.004	0.000	0.015
Chocolate	0.000	0.000	0.000	0.003	0.000	0.498	0.001	0.006	0.580	0.000	0.001	0.000	0.006	0.000	0.288
Sugars and sugar derivatives	0.000	0.000	0.000	0.002	0.000	0.162	0.000	0.004	0.215	0.000	0.000	0.000	0.006	0.000	0.131
Water	0.000	0.006	0.000	0.035	0.000	6.618	0.012	0.070	7.253	0.000	0.012	0.000	0.070	0.000	3.604
Soft drinks	0.000	0.018	0.000	0.053	0.000	18.533	0.036	0.107	21.604	0.000	0.036	0.000	0.107	0.000	10.751
Alcoholic beverages	0.000	0.001	0.000	0.017	0.000	0.645	0.001	0.033	0.751	0.000	0.001	0.000	0.033	0.000	0.373
Coffee	0.000	0.002	0.000	0.029	0.000	1.682	0.003	0.057	1.959	0.000	0.003	0.000	0.057	0.000	0.973
Other hot beverages	0.000	0.003	0.000	0.020	0.000	2.887	0.006	0.039	3.363	0.000	0.006	0.000	0.039	0.000	1.671
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.009	0.000	1.873	0.004	0.019	2.126	0.000	0.017	0.000	0.094	0.000	5.153
Sandwiches and snacks	0.000	0.002	0.000	0.008	0.000	1.982	0.004	0.017	2.309	0.000	0.019	0.000	0.083	0.000	5.692
Soups and broths	0.000	0.003	0.000	0.020	0.000	2.965	0.006	0.040	3.453	0.000	0.028	0.000	0.198	0.000	8.515
Mixed dishes	0.000	0.003	0.000	0.012	0.000	3.461	0.006	0.024	3.772	0.000	0.032	0.000	0.121	0.000	9.451
Dairy-based desserts	0.000	0.001	0.000	0.004	0.000	0.577	0.001	0.005	0.453	0.000	0.001	0.000	0.009	0.000	0.375
Compotes and cooked fruit	0.000	0.000	0.000	0.005	0.000	0.483	0.001	0.011	0.656	0.000	0.001	0.000	0.014	0.000	0.414
Seasonings and sauces	0.000	0.000	0.000	0.002	0.000	0.323	0.001	0.004	0.393	0.000	0.003	0.000	0.018	0.000	0.885
TOTAL	**0.001**	**0.097**	**0.007**	**0.192**	**100.000**	**100.000**	**0.166**	**0.310**	**100.000**	**0.001**	**0.334**	**0.005**	**0.576**	**100.000**	**100.000**

Table G66: Estimated exposure (mean and P95) in children aged 15 to 17 years to organotins (µg/kg bw/day) and contribution of foods (%)

Food group	Cyhexatin mean (UB)	Cyhexatin P95 (UB)	Cyhexatin contrib (UB)	Fenbutatin oxide mean (UB)	Fenbutatin oxide P95 (UB)	Fenbutatin oxide contrib (UB)	Fentin acetate mean (UB)	Fentin acetate P95 (UB)	Fentin acetate contrib (UB)	Fentin hydroxide mean (UB)	Fentin hydroxide P95 (UB)	Fentin hydroxide contrib (UB)
Bread and dried bread products												
Breakfast cereals												
Pasta												
Rice and wheat products												
Croissant-like pastries												
Sweet and savoury biscuits and bars												
Pastries and cakes												
Milk	0.008	0.026	66.3				0.004	0.013	60.2	0.004	0.013	60.2
Ultra-fresh dairy products	0.000	0.007	2.1	0.000	0.002	10.4	0.000	0.004	1.9	0.000	0.004	1.9
Cheese				0.000	0.001	16.8						
Eggs and egg products	0.001	0.004	7.0				0.001	0.003	8.5	0.001	0.003	8.5
Butter				0.000	0.001	8.1						
Meat												
Poultry and game												
Offal												
Delicatessen meats												
Fish	0.001	0.003	4.9	0.000	0.001	12.1	0.000	0.001	4.5	0.000	0.001	4.5
Crustaceans and molluscs	0.000	0.001	0.7	0.000	0.001	1.8	0.000	0.001	0.7	0.000	0.001	0.7
Vegetables (excluding potatoes)												
Potatoes and potato products												
Pulses												
Fruits												
Dried fruits, nuts and seeds												
Ice creams, sorbets and frozen desserts												
Chocolate												
Sugars and sugar derivatives												
Water	0.001	0.002	6.4	0.001	0.002	31.3	0.001	0.002	11.6	0.001	0.002	11.6
Soft drinks												
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas, quiches and savoury pastries												
Sandwiches and snacks												
Soups and broths												
Mixed dishes												
Dairy-based desserts	0.001	0.008	11.0	0.000	0.003	19.1	0.001	0.004	10.9	0.001	0.004	10.9
Compotes and cooked fruit												
Seasonings and sauces	0.000	0.001	0.9				0.000	0.001	1.1	0.000	0.001	1.1
TOTAL	**0.012**	**0.029**	**100.0**	**0.002**	**0.005**	**100.0**	**0.006**	**0.015**	**100.0**	**0.006**	**0.015**	**100.0**

Table G67: Estimated exposure (mean and P95) in children aged 15 to 17 years to organophosphates (µg/kg bw/day) and contribution of foods (%)

Food group	Azinphos methyl mean (LB)	Azinphos methyl mean (UB)	Azinphos methyl P95 (LB)	Azinphos methyl P95 (UB)	Azinphos methyl contrib (LB)	Azinphos methyl contrib (UB)	Chlorfenvinphos mean (LB)	Chlorfenvinphos mean (UB)	Chlorfenvinphos P95 (LB)	Chlorfenvinphos P95 (UB)	Chlorfenvinphos contrib (LB)	Chlorfenvinphos contrib (UB)
Bread and dried bread products	0.000	0.006	0.000	0.017	0.0	2.3	0.000	0.004	0.000	0.010	0.0	4.6
Breakfast cereals	0.000	0.001	0.000	0.005	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.7
Pasta	0.000	0.004	0.000	0.011	0.0	1.4	0.000	0.002	0.000	0.006	0.0	2.9
Rice and wheat products	0.000	0.002	0.000	0.008	0.0	0.7	0.000	0.001	0.000	0.005	0.0	1.5
Croissant-like pastries	0.000	0.001	0.000	0.007	0.0	0.5	0.000	0.001	0.000	0.004	0.0	1.0
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.007	0.0	0.5	0.000	0.001	0.000	0.004	0.0	0.8
Pastries and cakes	0.000	0.002	0.000	0.009	0.0	0.9	0.000	0.001	0.000	0.005	0.0	1.8
Milk	0.000	0.020	0.000	0.065	0.0	7.0	0.000	0.004	0.000	0.013	0.0	4.7
Ultra-fresh dairy products	0.000	0.008	0.000	0.029	0.0	2.9	0.000	0.002	0.000	0.006	0.0	2.1
Cheese	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.5
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.3
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.2
Meat	0.000	0.002	0.000	0.007	0.0	0.9	0.000	0.001	0.000	0.003	0.0	1.4
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.7
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	0.4	0.000	0.001	0.000	0.002	0.0	0.7
Fish	0.000	0.001	0.000	0.006	0.0	0.5	0.000	0.000	0.000	0.001	0.0	0.4
Crustaceans and molluscs	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.040	0.000	0.119	0.0	14.4	0.000	0.009	0.000	0.025	100.0	10.8
Potatoes and potato products	0.000	0.028	0.000	0.089	0.0	10.1	0.000	0.006	0.000	0.015	0.0	7.1
Pulses	0.000	0.001	0.000	0.015	0.0	0.4	0.000	0.001	0.000	0.008	0.0	0.6
Fruits	0.002	0.013	0.020	0.046	100.0	4.6	0.000	0.006	0.000	0.020	0.0	7.1
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.000	0.002	0.000	0.012	0.0	0.7	0.000	0.000	0.000	0.003	0.0	0.6
Sugars and sugar derivatives	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.2
Water	0.000	0.023	0.000	0.139	0.0	8.4	0.000	0.006	0.000	0.035	0.0	7.7
Soft drinks	0.000	0.071	0.000	0.213	0.0	25.6	0.000	0.018	0.000	0.053	0.0	21.6
Alcoholic beverages	0.000	0.002	0.000	0.067	0.0	0.9	0.000	0.001	0.000	0.017	0.0	0.8
Coffee	0.000	0.006	0.000	0.114	0.0	2.3	0.000	0.002	0.000	0.029	0.0	2.0
Other hot beverages	0.000	0.011	0.000	0.079	0.0	4.0	0.000	0.003	0.000	0.020	0.0	3.4
Pizzas, quiches and savoury pastries	0.000	0.004	0.000	0.019	0.0	1.4	0.000	0.002	0.000	0.009	0.0	2.2
Sandwiches and snacks	0.000	0.004	0.000	0.017	0.0	1.4	0.000	0.002	0.000	0.008	0.0	2.3
Soups and broths	0.000	0.006	0.000	0.040	0.0	2.1	0.000	0.003	0.000	0.020	0.0	3.5
Mixed dishes	0.000	0.007	0.000	0.026	0.0	2.5	0.000	0.003	0.000	0.012	0.0	4.0
Dairy-based desserts	0.000	0.003	0.000	0.015	0.0	0.9	0.000	0.001	0.000	0.004	0.0	0.7
Compotes and cooked fruit	0.000	0.001	0.000	0.008	0.0	0.3	0.000	0.000	0.000	0.005	0.0	0.6
Seasonings and sauces	0.000	0.001	0.000	0.004	0.0	0.2	0.000	0.000	0.000	0.002	0.0	0.4
TOTAL	**0.002**	**0.279**	**0.016**	**0.537**	**100.0**	**100.0**	**0.000**	**0.083**	**0.000**	**0.153**	**100.0**	**100.0**

Food group	Chlorpyriphos ethyl mean (LB)	Chlorpyriphos ethyl mean (UB)	Chlorpyriphos ethyl P95 (LB)	Chlorpyriphos ethyl P95 (UB)	Chlorpyriphos ethyl contrib (LB)	Chlorpyriphos ethyl contrib (UB)	Chlorpyriphos methyl mean (LB)	Chlorpyriphos methyl mean (UB)	Chlorpyriphos methyl P95 (LB)	Chlorpyriphos methyl P95 (UB)	Chlorpyriphos methyl contrib (LB)	Chlorpyriphos methyl contrib (UB)
Bread and dried bread products	0.000	0.004	0.000	0.010	0.0	3.9	0.003	0.009	0.008	0.024	52.1	9.0
Breakfast cereals	0.000	0.001	0.000	0.003	0.0	0.6	0.000	0.001	0.000	0.003	0.0	0.6
Pasta	0.000	0.002	0.000	0.006	0.0	2.5	0.000	0.002	0.000	0.006	0.0	2.5
Rice and wheat products	0.000	0.001	0.000	0.005	0.0	1.3	0.000	0.001	0.001	0.005	0.9	1.4
Croissant-like pastries	0.000	0.001	0.000	0.004	0.0	0.9	0.000	0.001	0.002	0.008	3.5	1.5
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.004	0.0	0.7	0.001	0.002	0.005	0.017	13.0	2.5
Pastries and cakes	0.000	0.001	0.000	0.005	0.0	1.5	0.000	0.001	0.000	0.005	0.0	1.5
Milk	0.000	0.002	0.000	0.008	0.0	2.4	0.000	0.002	0.000	0.008	0.0	2.4
Ultra-fresh dairy products	0.000	0.001	0.000	0.004	0.0	1.1	0.000	0.001	0.000	0.004	0.0	1.1
Cheese	0.000	0.000	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.2
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Butter	0.000	0.000	0.000	0.000	0.0	0.1	0.000	0.000	0.000	0.000	0.0	0.1
Meat	0.000	0.001	0.000	0.002	0.0	0.7	0.000	0.001	0.000	0.003	0.0	1.2
Poultry and game	0.000	0.000	0.000	0.002	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.6
Offal	0.000	0.000	0.000	0.000	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.000	0.000	0.001	0.6	0.4	0.000	0.001	0.000	0.002	0.0	0.6
Fish	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.000	0.0	0.0	0.000	0.000	0.000	0.000	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.021	0.001	0.060	1.9	21.6	0.000	0.020	0.000	0.060	0.1	20.8
Potatoes and potato products	0.000	0.006	0.000	0.015	0.0	6.1	0.000	0.006	0.000	0.015	0.0	6.0
Pulses	0.000	0.001	0.000	0.008	0.0	0.5	0.000	0.001	0.000	0.008	0.1	0.5
Fruits	0.006	0.012	0.032	0.050	97.5	12.1	0.000	0.004	0.000	0.014	0.7	3.9
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.000	0.000	0.000	0.003	0.0	0.5	0.000	0.000	0.000	0.003	0.0	0.5
Sugars and sugar derivatives	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000	0.000	0.002	0.0	0.2
Water	0.000	0.006	0.000	0.035	0.0	6.6	0.000	0.006	0.000	0.035	0.0	6.6
Soft drinks	0.000	0.018	0.000	0.053	0.0	18.5	0.000	0.018	0.000	0.053	0.0	18.3
Alcoholic beverages	0.000	0.001	0.000	0.017	0.0	0.6	0.000	0.001	0.000	0.017	0.0	0.6
Coffee	0.000	0.002	0.000	0.029	0.0	1.7	0.000	0.002	0.000	0.029	0.0	1.7
Other hot beverages	0.000	0.003	0.000	0.020	0.0	2.9	0.000	0.003	0.000	0.020	0.0	2.9
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.009	0.0	1.8	0.000	0.002	0.000	0.009	0.0	1.8
Sandwiches and snacks	0.000	0.002	0.000	0.008	0.0	2.0	0.001	0.003	0.008	0.012	27.0	2.9
Soups and broths	0.000	0.003	0.000	0.020	0.0	3.0	0.000	0.003	0.000	0.020	0.0	2.9
Mixed dishes	0.000	0.003	0.000	0.012	0.0	3.3	0.000	0.003	0.001	0.012	2.5	3.4
Dairy-based desserts	0.000	0.000	0.000	0.003	0.0	0.4	0.000	0.000	0.000	0.003	0.0	0.4
Compotes and cooked fruit	0.000	0.000	0.000	0.005	0.0	0.5	0.000	0.000	0.000	0.005	0.0	0.5
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.000	0.000	0.002	0.0	0.3
TOTAL	**0.006**	**0.097**	**0.028**	**0.174**	**100.0**	**100.0**	**0.005**	**0.097**	**0.012**	**0.180**	**100.0**	**100.0**

Food group	Diazinon mean (LB)	Diazinon mean (UB)	Diazinon P95 (LB)	Diazinon P95 (UB)	Diazinon contrib (LB)	Diazinon contrib (UB)	Dichlorvos mean (LB)	Dichlorvos mean (UB)	Dichlorvos P95 (LB)	Dichlorvos P95 (UB)	Dichlorvos contrib (LB)	Dichlorvos contrib (UB)
Bread and dried bread products	0.000	0.009	0.000	0.024	0.0	8.6	0.000	0.006	0.000	0.017	0.0	2.8
Breakfast cereals	0.000	0.001	0.000	0.007	0.0	1.4	0.000	0.001	0.000	0.005	0.0	0.4
Pasta	0.000	0.006	0.000	0.015	0.0	5.5	0.000	0.004	0.000	0.011	0.0	1.8
Rice and wheat products	0.000	0.003	0.000	0.012	0.0	2.8	0.000	0.002	0.000	0.008	0.0	0.9
Croissant-like pastries	0.000	0.002	0.000	0.010	0.0	2.0	0.000	0.001	0.000	0.007	0.0	0.6
Sweet and savoury biscuits and bars	0.000	0.001	0.000	0.008	0.0	1.4	0.000	0.002	0.000	0.008	0.0	0.8
Pastries and cakes	0.000	0.003	0.000	0.012	0.0	3.4	0.000	0.002	0.000	0.009	0.0	1.1
Milk	0.000	0.004	0.000	0.013	0.0	3.8	0.000	0.004	0.000	0.013	0.0	1.7
Ultra-fresh dairy products	0.000	0.002	0.000	0.007	0.0	1.9	0.000	0.000	0.000	0.004	0.0	0.1
Cheese	0.000	0.001	0.000	0.003	0.0	0.8						
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.5						
Butter	0.000	0.000	0.000	0.001	0.0	0.4						
Meat	0.000	0.002	0.000	0.007	0.0	2.3						
Poultry and game	0.000	0.001	0.000	0.005	0.0	1.2						
Offal	0.000	0.000	0.000	0.002	0.0	0.0						
Delicatessen meats	0.000	0.001	0.000	0.004	100.0	1.3						
Fish	0.000	0.000	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.1
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.010	0.000	0.026	0.0	9.8	0.000	0.042	0.000	0.125	0.0	18.6
Potatoes and potato products	0.000	0.007	0.000	0.022	0.0	7.3	0.000	0.025	0.000	0.071	0.0	11.1
Pulses	0.000	0.001	0.000	0.009	0.0	0.6	0.000	0.003	0.000	0.042	0.0	1.3
Fruits	0.000	0.004	0.000	0.013	0.0	3.6	0.000	0.012	0.000	0.039	100.0	5.2
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.007	0.0	0.2	0.000	0.000	0.000	0.005	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.000	0.000	0.003	0.0	0.5	0.000	0.001	0.000	0.006	0.0	0.4
Sugars and sugar derivatives	0.000	0.000	0.000	0.004	0.0	0.3	0.000	0.000	0.000	0.003	0.0	0.1
Water	0.000	0.006	0.000	0.035	0.0	6.2	0.000	0.012	0.000	0.070	0.0	5.3
Soft drinks	0.000	0.018	0.000	0.053	0.0	17.5	0.000	0.036	0.000	0.107	0.0	15.9
Alcoholic beverages	0.000	0.001	0.000	0.017	0.0	0.6	0.000	0.001	0.000	0.033	0.0	0.6
Coffee	0.000	0.002	0.000	0.029	0.0	1.6	0.000	0.003	0.000	0.057	0.0	1.4
Other hot beverages	0.000	0.003	0.000	0.020	0.0	2.7	0.000	0.006	0.000	0.039	0.0	2.5
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.010	0.0	1.7	0.000	0.010	0.000	0.059	0.0	4.6
Sandwiches and snacks	0.000	0.002	0.000	0.008	0.0	1.9	0.000	0.011	0.000	0.050	0.0	5.1
Soups and broths	0.000	0.003	0.000	0.020	0.0	2.8	0.000	0.017	0.000	0.120	0.0	7.6
Mixed dishes	0.000	0.003	0.000	0.012	0.0	3.2	0.000	0.019	0.000	0.076	0.0	8.3
Dairy-based desserts	0.000	0.001	0.000	0.005	0.0	0.7	0.000	0.001	0.000	0.004	0.0	0.3
Compotes and cooked fruit	0.000	0.001	0.000	0.011	0.0	1.1	0.000	0.001	0.000	0.008	0.0	0.3
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.4	0.000	0.002	0.000	0.015	0.0	0.8
TOTAL	**0.000**	**0.103**	**0.000**	**0.197**	**100.0**	**100.0**	**0.000**	**0.225**	**0.000**	**0.407**	**100.0**	**100.0**

Food group	Dimethoate mean (LB)	Dimethoate mean (UB)	Dimethoate P95 (LB)	Dimethoate P95 (UB)	Dimethoate contrib (LB)	Dimethoate contrib (UB)	Disulfoton mean (UB)	Disulfoton P95 (UB)	Disulfoton contrib (UB)	Ethion mean (LB)	Ethion mean (UB)	Ethion P95 (LB)
Bread and dried bread products	0.000	0.044	0.000	0.120	0.0	5.4				0.000	0.006	0.000
Breakfast cereals	0.000	0.007	0.000	0.035	0.0	0.9				0.000	0.001	0.000
Pasta	0.000	0.028	0.000	0.074	0.0	3.5				0.000	0.004	0.000
Rice and wheat products	0.000	0.014	0.000	0.058	0.0	1.8				0.000	0.002	0.000
Croissant-like pastries	0.000	0.010	0.000	0.048	0.0	1.2				0.000	0.001	0.000
Sweet and savoury biscuits and bars	0.000	0.008	0.000	0.043	0.0	1.0				0.000	0.001	0.000
Pastries and cakes	0.000	0.017	0.000	0.060	0.0	2.1				0.000	0.002	0.000
Milk	0.000	0.016	0.000	0.052	0.0	1.9				0.000	0.004	0.000
Ultra-fresh dairy products	0.000	0.007	0.000	0.024	0.0	0.9	0.014	0.055	13.5	0.000	0.002	0.000
Cheese	0.000	0.002	0.000	0.006	0.0	0.2				0.000	0.000	0.000
Eggs and egg products	0.000	0.001	0.000	0.006	0.0	0.1				0.000	0.000	0.000
Butter	0.000	0.001	0.000	0.003	0.0	0.1				0.000	0.000	0.000
Meat	0.000	0.005	0.000	0.012	0.0	0.6				0.000	0.001	0.000
Poultry and game	0.000	0.002	0.000	0.010	0.0	0.3				0.000	0.001	0.000
Offal	0.000	0.000	0.000	0.003	0.0	0.0				0.000	0.000	0.000
Delicatessen meats	0.000	0.002	0.000	0.008	0.0	0.3				0.000	0.001	0.000
Fish	0.000	0.001	0.000	0.005	0.0	0.1				0.000	0.000	0.000
Crustaceans and molluscs	0.000	0.000	0.000	0.003	0.0	0.0				0.000	0.000	0.000
Vegetables (excluding potatoes)	0.000	0.066	0.000	0.180	2.8	8.2	0.015	0.048	15.0	0.000	0.006	0.000
Potatoes and potato products	0.000	0.060	0.000	0.238	0.0	7.4				0.000	0.007	0.000
Pulses	0.000	0.003	0.000	0.040	0.0	0.3				0.000	0.001	0.000
Fruits	0.005	0.046	0.000	0.187	97.2	5.7	0.012	0.040	11.4	0.000	0.004	0.000
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.034	0.0	0.1				0.000	0.000	0.000
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.015	0.0	0.0				0.000	0.000	0.000
Chocolate	0.000	0.007	0.000	0.044	0.0	0.8	0.001	0.006	0.9	0.000	0.000	0.000
Sugars and sugar derivatives	0.000	0.002	0.000	0.024	0.0	0.2	0.000	0.003	0.1	0.000	0.000	0.000
Water	0.000	0.082	0.000	0.486	0.0	10.1	0.012	0.070	11.8	0.000	0.006	0.000
Soft drinks	0.000	0.250	0.000	0.747	0.0	30.9	0.036	0.107	35.0	0.000	0.018	0.000
Alcoholic beverages	0.000	0.009	0.000	0.233	0.0	1.1	0.001	0.033	1.2	0.000	0.001	0.000
Coffee	0.000	0.023	0.000	0.400	0.0	2.8	0.003	0.057	3.2	0.000	0.002	0.000
Other hot beverages	0.000	0.039	0.000	0.276	0.0	4.8	0.006	0.039	5.5	0.000	0.003	0.000
Pizzas, quiches and savoury pastries	0.000	0.008	0.000	0.044	0.0	1.0	0.001	0.013	0.9	0.000	0.002	0.000
Sandwiches and snacks	0.000	0.009	0.000	0.038	0.0	1.1				0.000	0.002	0.000
Soups and broths	0.000	0.013	0.000	0.092	0.0	1.6				0.001	0.004	0.005
Mixed dishes	0.000	0.016	0.000	0.059	0.0	2.0	0.002	0.011	1.6	0.000	0.003	0.000
Dairy-based desserts	0.000	0.002	0.000	0.018	0.0	0.3				0.000	0.001	0.000
Compotes and cooked fruit	0.000	0.005	0.000	0.055	0.0	0.7				0.000	0.001	0.000
Seasonings and sauces	0.000	0.001	0.000	0.008	0.0	0.2				0.000	0.000	0.000
TOTAL	**0.005**	**0.810**	**0.001**	**1.721**	**100.0**	**100.0**	**0.102**	**0.224**	**100.0**	**0.001**	**0.088**	**0.001**

Food group	Ethion P95 (UB)	Ethion contrib (LB)	Ethion contrib (UB)	Fenitrothion mean (LB)	Fenitrothion mean (UB)	Fenitrothion P95 (UB)	Fenitrothion contrib (LB)	Fenitrothion contrib (UB)	Fenthion mean (UB)	Fenthion P95 (UB)	Fenthion contrib (UB)	Malathion mean (LB)	Malathion mean (UB)
Bread and dried bread products	0.017	0.0	7.2	0.000	0.006	0.017	0.0	6.3	0.006	0.017	3.5	0.000	0.004
Breakfast cereals	0.005	0.0	1.1	0.000	0.001	0.005	0.0	1.0	0.001	0.005	0.6	0.000	0.001
Pasta	0.011	0.0	4.6	0.000	0.004	0.011	0.0	4.0	0.004	0.011	2.3	0.000	0.002
Rice and wheat products	0.008	0.0	2.3	0.000	0.002	0.008	0.0	2.0	0.002	0.008	1.2	0.000	0.001
Croissant-like pastries	0.007	0.0	1.6	0.000	0.001	0.007	0.0	1.4	0.001	0.007	0.8	0.000	0.001
Sweet and savoury biscuits and bars	0.006	0.0	1.2	0.000	0.001	0.006	0.0	1.0	0.001	0.007	0.6	0.000	0.001
Pastries and cakes	0.009	0.0	2.8	0.000	0.002	0.009	0.0	2.5	0.002	0.009	1.4	0.000	0.001
Milk	0.013	0.0	4.4	0.000	0.002	0.008	0.0	2.3	0.012	0.039	6.6	0.000	0.004
Ultra-fresh dairy products	0.006	0.0	2.0	0.000	0.001	0.004	0.0	1.1	0.008	0.029	4.6	0.000	0.002
Cheese	0.001	0.0	0.5	0.000	0.000	0.001	0.0	0.4	0.002	0.006	0.9	0.000	0.001
Eggs and egg products	0.001	0.0	0.3	0.000	0.001	0.003	0.0	0.5	0.002	0.009	0.9	0.000	0.001
Butter	0.001	0.0	0.2	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.4	0.000	0.000
Meat	0.003	0.0	1.4	0.000	0.001	0.003	0.0	1.2	0.006	0.017	3.3	0.000	0.002
Poultry and game	0.003	0.0	0.7	0.000	0.001	0.003	0.0	0.6	0.003	0.013	1.7	0.000	0.001
Offal	0.001	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.004	0.0	0.000	0.000
Delicatessen meats	0.002	5.4	0.8	0.000	0.001	0.002	0.0	0.6	0.003	0.010	1.7	0.000	0.001
Fish	0.001	0.0	0.3	0.000	0.000	0.001	0.0	0.2	0.001	0.004	0.5	0.000	0.000
Crustaceans and molluscs	0.001	0.0	0.0	0.000	0.000	0.000	0.0	0.0	0.000	0.002	0.1	0.000	0.000
Vegetables (excluding potatoes)	0.015	0.0	6.6	0.000	0.021	0.060	0.0	20.7	0.017	0.049	9.7	0.000	0.013
Potatoes and potato products	0.022	0.0	8.5	0.000	0.006	0.015	0.0	5.8	0.012	0.048	7.0	0.000	0.011
Pulses	0.009	0.0	0.6	0.000	0.001	0.009	0.0	0.5	0.001	0.009	0.3	0.000	0.001
Fruits	0.013	2.9	4.3	0.000	0.006	0.020	0.0	5.9	0.018	0.059	9.9	0.000	0.009
Dried fruits, nuts and seeds	0.005	0.0	0.2	0.000	0.000	0.005	0.0	0.2	0.000	0.005	0.1	0.000	0.000
Ice creams, sorbets and frozen desserts	0.002	0.0	0.0	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.000
Chocolate	0.003	0.0	0.5	0.000	0.000	0.003	0.0	0.5	0.001	0.006	0.5	0.000	0.001
Sugars and sugar derivatives	0.003	0.0	0.3	0.000	0.000	0.003	0.0	0.2	0.000	0.003	0.2	0.000	0.000
Water	0.035	0.0	7.3	0.000	0.006	0.035	0.0	6.4	0.012	0.070	6.8	0.000	0.012
Soft drinks	0.053	0.0	20.4	0.000	0.018	0.053	0.0	17.8	0.036	0.107	20.1	0.000	0.036
Alcoholic beverages	0.017	0.0	0.7	0.000	0.001	0.017	0.0	0.6	0.001	0.033	0.7	0.000	0.001
Coffee	0.029	0.0	1.8	0.000	0.002	0.029	0.0	1.6	0.003	0.057	1.8	0.000	0.003
Other hot beverages	0.020	0.0	3.2	0.000	0.003	0.020	0.0	2.8	0.006	0.039	3.1	0.000	0.006
Pizzas, quiches and savoury pastries	0.009	0.0	2.1	0.000	0.002	0.009	0.0	1.8	0.002	0.010	1.2	0.000	0.004
Sandwiches and snacks	0.008	0.0	2.2	0.000	0.002	0.008	0.0	1.9	0.002	0.008	1.1	0.000	0.004
Soups and broths	0.023	91.8	4.0	0.000	0.003	0.020	0.0	2.8	0.003	0.020	1.6	0.000	0.006
Mixed dishes	0.012	0.0	3.7	0.000	0.003	0.012	0.0	3.2	0.004	0.014	2.2	0.000	0.006
Dairy-based desserts	0.004	0.0	0.7	0.000	0.001	0.003	0.0	0.5	0.003	0.019	1.7	0.000	0.001
Compotes and cooked fruit	0.008	0.0	0.9	0.000	0.001	0.008	0.0	0.8	0.001	0.008	0.4	0.000	0.000
Seasonings and sauces	0.002	0.0	0.4	0.000	0.000	0.002	0.0	0.4	0.001	0.002	0.3	0.000	0.001
TOTAL	**0.162**	**100.0**	**100.0**	**0.000**	**0.101**	**0.187**	**100.0**	**100.0**	**0.178**	**0.329**	**100.0**	**0.000**	**0.138**

Food group	Malathion P95 (LB)	Malathion P95 (UB)	Malathion contrib (LB)	Malathion contrib (UB)	Methidathion mean (UB)	Methidathion P95 (UB)	Methidathion contrib (UB)	Mevinphos mean (UB)	Mevinphos P95 (UB)	Mevinphos contrib (UB)	Monocrotophos mean (UB)	Monocrotophos P95 (UB)	Monocrotophos contrib (UB)
Bread and dried bread products	0.000	0.010	0.0	2.7	0.006	0.017	3.4	0.006	0.017	5.0	0.006	0.017	3.1
Breakfast cereals	0.000	0.003	0.0	0.4	0.001	0.005	0.5	0.001	0.005	0.8	0.001	0.005	0.5
Pasta	0.000	0.006	0.0	1.7	0.004	0.011	2.2	0.004	0.011	3.2	0.004	0.011	2.0
Rice and wheat products	0.000	0.005	0.0	0.9	0.002	0.008	1.1	0.002	0.008	1.6	0.002	0.008	1.0
Croissant-like pastries	0.000	0.004	0.0	0.6	0.001	0.007	0.8	0.001	0.007	1.1	0.001	0.007	0.7
Sweet and savoury biscuits and bars	0.000	0.004	0.0	0.5	0.001	0.006	0.7	0.001	0.006	0.8	0.001	0.006	0.5
Pastries and cakes	0.000	0.005	0.0	1.1	0.002	0.009	1.4	0.002	0.009	1.9	0.002	0.009	1.2
Milk	0.000	0.013	0.0	2.8	0.004	0.013	2.1	0.004	0.013	3.1	0.004	0.013	1.9
Ultra-fresh dairy products	0.000	0.007	0.0	1.4	0.002	0.007	1.1	0.002	0.006	1.4	0.002	0.006	0.9
Cheese	0.000	0.003	0.0	0.6	0.001	0.003	0.4	0.000	0.001	0.3	0.000	0.001	0.2
Eggs and egg products	0.000	0.003	0.0	0.4	0.001	0.003	0.3	0.000	0.001	0.2	0.000	0.001	0.1
Butter	0.000	0.001	0.0	0.3	0.000	0.001	0.2	0.000	0.001	0.2	0.000	0.001	0.1
Meat	0.000	0.007	0.0	1.7	0.002	0.007	1.3	0.001	0.003	0.9	0.001	0.003	0.6
Poultry and game	0.000	0.005	0.0	0.9	0.001	0.005	0.7	0.001	0.003	0.5	0.001	0.003	0.3
Offal	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.004	0.0	0.9	0.001	0.004	0.7	0.001	0.002	0.5	0.001	0.002	0.3
Fish	0.000	0.001	0.0	0.2	0.000	0.001	0.2	0.000	0.001	0.2	0.000	0.001	0.1
Crustaceans and molluscs	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.038	0.0	9.5	0.011	0.031	6.1	0.017	0.049	13.5	0.018	0.051	8.5
Potatoes and potato products	0.000	0.028	0.0	7.7	0.021	0.058	11.6	0.005	0.013	4.0	0.009	0.024	4.3
Pulses	0.000	0.015	0.0	0.7	0.002	0.035	1.3	0.001	0.009	0.4	0.001	0.015	0.5
Fruits	0.000	0.032	0.0	6.8	0.006	0.020	3.3	0.006	0.020	4.7	0.012	0.039	5.7
Dried fruits, nuts and seeds	0.000	0.003	0.0	0.1	0.000	0.005	0.1	0.000	0.005	0.1	0.000	0.005	0.1
Ice creams, sorbets and frozen desserts	0.000	0.001	0.0	0.0	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.002	0.0
Chocolate	0.000	0.006	0.0	0.7	0.001	0.006	0.5	0.001	0.006	0.8	0.002	0.012	0.9
Sugars and sugar derivatives	0.000	0.002	0.0	0.1	0.000	0.003	0.1	0.000	0.003	0.2	0.000	0.004	0.2
Water	0.000	0.070	0.0	8.7	0.012	0.070	6.6	0.012	0.070	9.5	0.023	0.139	11.3
Soft drinks	0.000	0.107	0.0	25.8	0.036	0.107	19.6	0.036	0.107	28.1	0.071	0.213	34.7
Alcoholic beverages	0.000	0.033	0.0	0.9	0.001	0.033	0.7	0.001	0.033	1.0	0.002	0.067	1.2
Coffee	0.000	0.057	0.0	2.3	0.003	0.057	1.8	0.003	0.057	2.6	0.006	0.114	3.2
Other hot beverages	0.000	0.039	0.0	4.0	0.006	0.039	3.0	0.006	0.039	4.4	0.011	0.079	5.4
Pizzas, quiches and savoury pastries	0.000	0.019	0.0	2.5	0.009	0.047	4.7	0.002	0.009	1.4	0.004	0.019	1.7
Sandwiches and snacks	0.000	0.017	0.0	2.8	0.010	0.042	5.2	0.002	0.008	1.5	0.004	0.017	1.9
Soups and broths	0.000	0.040	0.0	4.1	0.014	0.100	7.8	0.003	0.020	2.3	0.006	0.040	2.8
Mixed dishes	0.001	0.024	100.0	4.5	0.016	0.061	8.5	0.003	0.012	2.6	0.006	0.024	3.1
Dairy-based desserts	0.000	0.005	0.0	0.5	0.001	0.005	0.4	0.001	0.004	0.5	0.001	0.005	0.3
Compotes and cooked fruit	0.000	0.005	0.0	0.3	0.001	0.008	0.4	0.001	0.008	0.6	0.001	0.008	0.4
Seasonings and sauces	0.000	0.004	0.0	0.5	0.002	0.009	0.8	0.000	0.002	0.3	0.001	0.004	0.3
TOTAL	**0.001**	**0.269**	**100.0**	**100.0**	**0.183**	**0.350**	**100.0**	**0.127**	**0.253**	**100.0**	**0.206**	**0.435**	**100.0**

Food group	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion mean (UB)	Parathion P95 (UB)	Parathion contrib (UB)	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)	Phosalone mean (LB)	Phosalone mean (UB)
Bread and dried bread products							0.025	0.068	9.2	0.126	0.342	20.2	0.000	0.004
Breakfast cereals							0.004	0.020	1.5	0.020	0.100	3.2	0.000	0.001
Pasta							0.016	0.042	5.9	0.080	0.212	12.9	0.000	0.002
Rice and wheat products							0.008	0.033	3.0	0.041	0.167	6.6	0.000	0.001
Croissant-like pastries							0.006	0.028	2.1	0.029	0.138	4.6	0.000	0.001
Sweet and savoury biscuits and bars				0.000	0.002	0.3	0.004	0.023	1.5	0.019	0.121	3.0	0.000	0.001
Pastries and cakes							0.010	0.034	3.6	0.049	0.172	7.9	0.000	0.001
Milk				0.009	0.029	16.0	0.006	0.022	2.4	0.011	0.038	1.8	0.000	0.004
Ultra-fresh dairy products				0.004	0.013	7.2	0.007	0.029	2.6	0.007	0.026	1.1	0.000	0.002
Cheese				0.001	0.003	1.7	0.005	0.018	1.9	0.004	0.015	0.7	0.000	0.001
Eggs and egg products				0.001	0.003	1.1	0.003	0.018	1.3	0.003	0.018	0.6	0.000	0.001
Butter				0.000	0.001	0.8	0.002	0.009	0.9	0.002	0.007	0.3	0.000	0.000
Meat				0.002	0.007	4.6	0.015	0.042	5.5	0.015	0.041	2.4	0.000	0.002
Poultry and game				0.001	0.006	2.5	0.008	0.033	2.8	0.008	0.033	1.2	0.000	0.001
Offal				0.000	0.002	0.1	0.000	0.010	0.1	0.000	0.010	0.0	0.000	0.000
Delicatessen meats				0.001	0.004	2.5	0.008	0.024	2.8	0.008	0.024	1.2	0.000	0.001
Fish				0.001	0.003	1.2	0.000	0.002	0.2	0.001	0.004	0.1	0.000	0.000
Crustaceans and molluscs				0.000	0.002	0.2	0.000	0.001	0.0	0.000	0.002	0.0	0.000	0.000
Vegetables (excluding potatoes)	0.015	0.048	92.8	0.001	0.012	1.5	0.038	0.103	13.8	0.037	0.109	5.9	0.000	0.021
Potatoes and potato products				0.009	0.024	16.6	0.012	0.029	4.3				0.000	0.011
Pulses				0.001	0.013	1.8	0.001	0.017	0.4	0.001	0.078	0.2	0.000	0.001
Fruits							0.006	0.023	2.3	0.015	0.067	2.4	0.003	0.013
Dried fruits, nuts and seeds							0.001	0.019	0.2	0.003	0.096	0.5	0.000	0.000
Ice creams, sorbets and frozen desserts							0.000	0.008	0.0	0.001	0.042	0.1	0.000	0.000
Chocolate							0.001	0.006	0.4	0.002	0.012	0.3	0.000	0.001
Sugars and sugar derivatives							0.001	0.013	0.3	0.004	0.063	0.7	0.000	0.000
Water	0.001	0.002	4.6	0.001	0.002	1.4	0.012	0.070	4.4	0.023	0.139	3.7	0.000	0.012
Soft drinks							0.036	0.107	13.2	0.074	0.218	11.9	0.000	0.036
Alcoholic beverages							0.001	0.033	0.5	0.002	0.067	0.4	0.000	0.001
Coffee							0.003	0.057	1.2	0.006	0.114	1.0	0.000	0.003
Other hot beverages							0.006	0.039	2.0	0.011	0.079	1.8	0.000	0.006
Pizzas, quiches and savoury pastries				0.004	0.019	6.8	0.004	0.019	1.3	0.000	0.004	0.0	0.000	0.004
Sandwiches and snacks				0.004	0.017	7.1	0.004	0.017	1.4				0.000	0.004
Soups and broths				0.006	0.040	10.7	0.006	0.040	2.1				0.000	0.006
Mixed dishes				0.007	0.024	12.3	0.007	0.024	2.4	0.000	0.003	0.1	0.000	0.006
Dairy-based desserts				0.001	0.009	2.5	0.003	0.016	1.0	0.003	0.017	0.5	0.000	0.001
Compotes and cooked fruit							0.003	0.032	1.1	0.016	0.158	2.5	0.000	0.000
Seasonings and sauces				0.001	0.004	1.2	0.001	0.005	0.4	0.000	0.003	0.1	0.000	0.001
TOTAL	**0.016**	**0.048**	**100.0**	**0.054**	**0.091**	**100.0**	**0.274**	**0.510**	**100.0**	**0.624**	**1.093**	**100.0**	**0.003**	**0.150**

Food group	Phosalone P95 (LB)	Phosalone P95 (UB)	Phosalone contrib (LB)	Phosalone contrib (UB)	Phosmet mean (LB)	Phosmet mean (UB)	Phosmet P95 (LB)	Phosmet P95 (UB)	Phosmet contrib (LB)	Phosmet contrib (UB)	Phosphamidon mean (UB)	Phosphamidon P95 (UB)	Phosphamidon contrib (UB)
Bread and dried bread products	0.000	0.010	0.0	2.5	0.000	0.006	0.000	0.017	0.0	4.3	0.009	0.024	7.0
Breakfast cereals	0.000	0.003	0.0	0.4	0.000	0.001	0.000	0.005	0.0	0.7	0.001	0.007	1.1
Pasta	0.000	0.006	0.0	1.6	0.000	0.004	0.000	0.011	0.0	2.8	0.006	0.015	4.5
Rice and wheat products	0.000	0.005	0.0	0.8	0.000	0.002	0.000	0.008	0.0	1.4	0.003	0.012	2.3
Croissant-like pastries	0.000	0.004	0.0	0.6	0.000	0.001	0.000	0.007	0.0	1.0	0.002	0.010	1.6
Sweet and savoury biscuits and bars	0.000	0.004	0.0	0.5	0.000	0.001	0.000	0.006	0.0	0.7	0.001	0.009	1.1
Pastries and cakes	0.000	0.005	0.0	1.0	0.000	0.002	0.000	0.009	0.0	1.7	0.003	0.012	2.8
Milk	0.000	0.013	0.0	2.6	0.000	0.008	0.000	0.026	0.0	5.3	0.004	0.013	3.1
Ultra-fresh dairy products	0.000	0.007	0.0	1.3	0.000	0.004	0.000	0.015	0.0	2.7	0.002	0.006	1.4
Cheese	0.000	0.003	0.0	0.5	0.000	0.002	0.000	0.006	0.0	1.1	0.000	0.001	0.3
Eggs and egg products	0.000	0.003	0.0	0.4	0.000	0.001	0.000	0.006	0.0	0.8	0.000	0.001	0.2
Butter	0.000	0.001	0.0	0.3	0.000	0.001	0.000	0.003	0.0	0.5	0.000	0.001	0.2
Meat	0.000	0.007	0.0	1.6	0.000	0.005	0.000	0.013	0.0	3.3	0.001	0.003	0.9
Poultry and game	0.000	0.005	0.0	0.8	0.000	0.002	0.000	0.010	0.0	1.7	0.001	0.003	0.5
Offal	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.004	0.7	0.9	0.000	0.002	0.000	0.008	0.0	1.7	0.001	0.002	0.5
Fish	0.000	0.001	0.0	0.2	0.000	0.001	0.000	0.003	0.0	0.4	0.000	0.001	0.2
Crustaceans and molluscs	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.061	0.0	13.8	0.000	0.006	0.000	0.016	0.0	4.2	0.017	0.049	13.8
Potatoes and potato products	0.000	0.028	0.0	7.4	0.000	0.007	0.000	0.022	0.0	5.1			
Pulses	0.000	0.015	0.0	0.7	0.000	0.001	0.000	0.015	0.0	0.7	0.000	0.005	0.1
Fruits	0.024	0.048	99.3	8.9	0.002	0.013	0.010	0.050	100.0	8.6	0.012	0.039	9.4
Dried fruits, nuts and seeds	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.007	0.2
Ice creams, sorbets and frozen desserts	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.003	0.0
Chocolate	0.000	0.006	0.0	0.6	0.000	0.001	0.000	0.006	0.0	0.7	0.001	0.006	0.8
Sugars and sugar derivatives	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.2	0.000	0.004	0.3
Water	0.000	0.070	0.0	8.0	0.000	0.012	0.000	0.070	0.0	8.2	0.012	0.070	9.6
Soft drinks	0.000	0.107	0.0	23.7	0.000	0.036	0.000	0.107	0.0	24.5	0.036	0.107	28.6
Alcoholic beverages	0.000	0.033	0.0	0.8	0.000	0.001	0.000	0.033	0.0	0.9	0.001	0.033	1.0
Coffee	0.000	0.057	0.0	2.2	0.000	0.003	0.000	0.057	0.0	2.2	0.003	0.057	2.6
Other hot beverages	0.000	0.039	0.0	3.7	0.000	0.006	0.000	0.039	0.0	3.8	0.006	0.039	4.4
Pizzas, quiches and savoury pastries	0.000	0.019	0.0	2.3	0.000	0.002	0.000	0.009	0.0	1.3	0.000	0.001	0.1
Sandwiches and snacks	0.000	0.017	0.0	2.5	0.000	0.002	0.000	0.008	0.0	1.3			
Soups and broths	0.000	0.040	0.0	3.8	0.000	0.005	0.000	0.036	0.0	3.6			
Mixed dishes	0.000	0.024	0.0	4.2	0.000	0.004	0.000	0.013	0.0	2.5	0.000	0.001	0.1
Dairy-based desserts	0.000	0.005	0.0	0.5	0.000	0.001	0.000	0.008	0.0	1.0	0.001	0.004	0.5
Compotes and cooked fruit	0.000	0.005	0.0	0.3	0.000	0.001	0.000	0.008	0.0	0.5	0.001	0.011	0.9
Seasonings and sauces	0.000	0.004	0.0	0.4	0.000	0.000	0.000	0.002	0.0	0.3	0.000	0.000	0.0
TOTAL	**0.017**	**0.283**	**100.0**	**100.0**	**0.002**	**0.146**	**0.008**	**0.281**	**100.0**	**100.0**	**0.125**	**0.244**	**100.0**

Food group	Pyrimiphos methyl mean (LB)	Pyrimiphos methyl mean (UB)	Pyrimiphos methyl P95 (LB)	Pyrimiphos methyl P95 (UB)	Pyrimiphos methyl contrib (LB)	Pyrimiphos methyl contrib (UB)	Quinalphos mean (UB)	Quinalphos P95 (UB)	Quinalphos contrib (UB)	Sulfotep mean (UB)	Sulfotep P95 (UB)	Sulfotep contrib (UB)	Thiometon mean (UB)	Thiometon P95 (UB)	Thiometon contrib (UB)
Bread and dried bread products	0.031	0.031	0.080	0.080	39.7	16.6	0.009	0.024	4.4						
Breakfast cereals	0.001	0.003	0.006	0.022	1.1	1.8	0.001	0.007	0.7						
Pasta	0.008	0.017	0.022	0.043	10.6	8.9	0.006	0.015	2.8						
Rice and wheat products	0.006	0.007	0.025	0.028	7.9	3.8	0.003	0.012	1.4						
Croissant-like pastries	0.009	0.011	0.043	0.053	11.8	5.8	0.002	0.010	1.0						
Sweet and savoury biscuits and bars	0.006	0.008	0.040	0.054	7.5	4.3	0.002	0.009	0.8						
Pastries and cakes	0.005	0.008	0.018	0.029	5.9	4.3	0.003	0.012	1.7						
Milk	0.000	0.008	0.000	0.026	0.0	4.2	0.008	0.026	3.9	0.040	0.133	35.4	0.004	0.013	5.9
Ultra-fresh dairy products	0.000	0.003	0.002	0.012	0.3	1.8	0.004	0.015	2.0	0.018	0.062	15.9	0.002	0.006	2.3
Cheese	0.000	0.000	0.000	0.001	0.0	0.2	0.002	0.006	0.8	0.004	0.015	3.7			
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.3	0.001	0.006	0.5	0.001	0.007	1.2	0.000	0.001	0.4
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.001	0.003	0.4	0.002	0.007	1.8			
Meat	0.000	0.002	0.000	0.007	0.0	1.3	0.002	0.007	1.2	0.006	0.017	5.3	0.001	0.003	1.7
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.7	0.001	0.005	0.6	0.003	0.013	2.7	0.001	0.003	0.9
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.004	0.1	0.000	0.001	0.0
Delicatessen meats	0.000	0.001	0.000	0.004	0.0	0.7	0.001	0.004	0.6	0.003	0.010	2.7	0.001	0.002	0.9
Fish	0.000	0.001	0.000	0.003	0.0	0.3	0.001	0.003	0.3	0.001	0.006	1.3	0.000	0.001	0.4
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.004	0.2	0.000	0.001	0.1
Vegetables (excluding potatoes)	0.000	0.020	0.000	0.060	0.0	10.9	0.019	0.054	9.4	0.015	0.048	13.6	0.015	0.048	23.1
Potatoes and potato products	0.000	0.007	0.000	0.022	0.0	4.0	0.020	0.053	10.0						
Pulses	0.000	0.001	0.001	0.008	0.1	0.3	0.002	0.029	1.0						
Fruits	0.000	0.004	0.000	0.012	0.0	1.9	0.012	0.039	5.9	0.012	0.040	10.3	0.012	0.040	17.6
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.007	0.1						
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.0						
Chocolate	0.000	0.001	0.001	0.003	0.1	0.3	0.001	0.006	0.5				0.000	0.003	0.7
Sugars and sugar derivatives	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.2				0.000	0.001	0.0
Water	0.000	0.006	0.000	0.035	0.0	3.4	0.012	0.070	6.0	0.001	0.002	0.7	0.006	0.035	9.7
Soft drinks	0.000	0.018	0.000	0.053	0.0	9.6	0.036	0.107	17.7				0.018	0.053	27.0
Alcoholic beverages	0.000	0.001	0.000	0.017	0.0	0.3	0.001	0.033	0.6				0.001	0.017	0.9
Coffee	0.000	0.002	0.000	0.029	0.0	0.9	0.003	0.057	1.6				0.002	0.029	2.5
Other hot beverages	0.000	0.003	0.000	0.020	0.0	1.5	0.006	0.039	2.8				0.003	0.020	4.2
Pizzas, quiches and savoury pastries	0.003	0.004	0.019	0.024	4.4	2.4	0.007	0.038	3.5	0.001	0.013	0.8	0.000	0.001	0.1
Sandwiches and snacks	0.005	0.006	0.030	0.030	6.3	3.2	0.008	0.033	3.8						
Soups and broths	0.000	0.003	0.002	0.020	0.1	1.6	0.011	0.080	5.7						
Mixed dishes	0.003	0.006	0.017	0.021	4.3	3.1	0.013	0.049	6.3	0.002	0.011	1.4	0.000	0.001	0.2
Dairy-based desserts	0.000	0.001	0.000	0.008	0.0	0.7	0.002	0.010	0.7	0.003	0.020	2.6	0.001	0.004	0.9
Compotes and cooked fruit	0.000	0.000	0.000	0.005	0.0	0.3	0.001	0.011	0.5						
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.2	0.001	0.007	0.6	0.000	0.001	0.2	0.000	0.000	0.1
TOTAL	**0.077**	**0.186**	**0.148**	**0.335**	**100.0**	**100.0**	**0.202**	**0.388**	**100.0**	**0.112**	**0.236**	**100.0**	**0.066**	**0.144**	**100.0**

Table G68: Estimated exposure (mean and P95) in children aged 15 to 17 years to persistant organic pollutants (µg/kg bw/day) and contribution of foods (%)

Food group	Chlordane mean (UB)	Chlordane P95 (UB)	Chlordane contrib (UB)	DDT mean (UB)	DDT P95 (UB)	DDT contrib (UB)	Dieldrin mean (UB)	Dieldrin P95 (UB)	Dieldrin contrib (UB)	Endrin mean (UB)	Endrin P95 (UB)	Endrin contrib (UB)	HCB mean (LB)	HCB mean (UB)	HCB P95 (LB)	HCB P95 (UB)
Bread and dried bread products	0.008	0.021	9.7	0.013	0.034	6.2	0.010	0.028	5.2	0.006	0.017	8.3	0.000	0.004	0.000	0.010
Breakfast cereals	0.001	0.006	1.5	0.002	0.010	1.0	0.002	0.008	0.8	0.001	0.005	1.3	0.000	0.001	0.000	0.003
Pasta	0.005	0.013	6.2	0.008	0.021	3.9	0.007	0.017	3.3	0.004	0.011	5.3	0.000	0.002	0.000	0.006
Rice and wheat products	0.002	0.010	3.2	0.004	0.017	2.0	0.003	0.014	1.7	0.002	0.008	2.7	0.000	0.001	0.000	0.005
Croissant-like pastries	0.002	0.008	2.2	0.003	0.014	1.4	0.002	0.011	1.2	0.001	0.007	1.9	0.000	0.001	0.000	0.004
Sweet and savoury biscuits and bars	0.001	0.007	1.4	0.002	0.012	0.9	0.002	0.010	0.9	0.001	0.006	1.2	0.000	0.001	0.000	0.004
Pastries and cakes	0.003	0.010	3.8	0.005	0.017	2.4	0.004	0.014	2.0	0.002	0.009	3.3	0.000	0.001	0.000	0.005
Milk	0.016	0.052	20.0	0.016	0.055	8.1	0.006	0.022	3.3	0.002	0.008	3.1	0.000	0.002	0.000	0.008
Ultra-fresh dairy products	0.007	0.023	8.3	0.007	0.024	3.4	0.003	0.010	1.5	0.001	0.004	1.4	0.000	0.001	0.000	0.004
Cheese	0.001	0.003	1.0	0.001	0.004	0.5	0.001	0.003	0.4	0.000	0.001	0.3	0.000	0.000	0.000	0.001
Eggs and egg products	0.001	0.003	0.7	0.001	0.006	0.6	0.001	0.003	0.3	0.000	0.001	0.2	0.000	0.000	0.000	0.001
Butter	0.000	0.001	0.5	0.000	0.002	0.2	0.000	0.001	0.2	0.000	0.000	0.2	0.000	0.000	0.000	0.000
Meat	0.002	0.007	3.0	0.003	0.008	1.5	0.002	0.007	1.2	0.001	0.002	0.9	0.000	0.001	0.000	0.003
Poultry and game	0.001	0.005	1.6	0.002	0.007	0.8	0.001	0.005	0.6	0.000	0.002	0.5	0.000	0.001	0.000	0.003
Offal	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.001	0.004	1.6	0.002	0.005	0.8	0.001	0.004	0.6	0.000	0.001	0.5	0.000	0.001	0.000	0.002
Fish	0.001	0.005	1.5	0.001	0.005	0.6	0.000	0.002	0.2	0.000	0.001	0.2	0.000	0.000	0.000	0.001
Crustaceans and molluscs	0.000	0.003	0.2	0.000	0.003	0.1	0.000	0.001	0.0	0.000	0.000	0.0	0.000	0.000	0.000	0.000
Vegetables (excluding potatoes)	0.017	0.048	21.7	0.050	0.148	24.7	0.011	0.029	5.7	0.017	0.048	22.0	0.000	0.005	0.000	0.014
Potatoes and potato products							0.014	0.035	6.9				0.000	0.005	0.000	0.013
Pulses	0.000	0.005	0.1	0.000	0.008	0.1	0.001	0.020	0.6	0.000	0.004	0.1	0.000	0.001	0.000	0.008
Fruits	0.004	0.013	4.7	0.018	0.061	9.0	0.007	0.024	3.8	0.004	0.012	4.8	0.000	0.004	0.000	0.012
Dried fruits, nuts and seeds	0.000	0.006	0.2	0.000	0.010	0.2	0.000	0.008	0.1	0.000	0.005	0.2	0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts	0.000	0.003	0.0	0.000	0.004	0.0	0.000	0.003	0.0	0.000	0.002	0.0	0.000	0.000	0.000	0.001
Chocolate				0.001	0.006	0.5	0.001	0.009	0.7	0.000	0.003	0.6	0.000	0.000	0.000	0.003
Sugars and sugar derivatives	0.000	0.004	0.3	0.000	0.006	0.2	0.000	0.005	0.2	0.000	0.003	0.3	0.000	0.000	0.000	0.002
Water	0.001	0.002	1.0	0.012	0.070	5.9	0.017	0.105	8.8	0.006	0.035	8.4	0.000	0.006	0.000	0.035
Soft drinks	0.000	0.004	0.2	0.036	0.107	17.6	0.054	0.162	27.7	0.018	0.053	23.7	0.000	0.018	0.000	0.053
Alcoholic beverages				0.001	0.033	0.6	0.002	0.051	1.0	0.001	0.017	0.8	0.000	0.001	0.000	0.017
Coffee				0.003	0.057	1.6	0.005	0.087	2.5	0.002	0.029	2.1	0.000	0.002	0.000	0.029
Other hot beverages				0.006	0.039	2.7	0.008	0.060	4.3	0.003	0.020	3.7	0.000	0.003	0.000	0.020
Pizzas, quiches and savoury pastries	0.000	0.005	0.5	0.000	0.005	0.2	0.004	0.023	2.2	0.000	0.001	0.1	0.000	0.002	0.000	0.009
Sandwiches and snacks							0.005	0.020	2.4				0.000	0.002	0.000	0.008
Soups and broths							0.007	0.049	3.6				0.000	0.003	0.000	0.020
Mixed dishes	0.001	0.004	0.8	0.001	0.004	0.3	0.008	0.030	4.1	0.000	0.001	0.1	0.000	0.003	0.000	0.012
Dairy-based desserts	0.002	0.013	2.7	0.002	0.017	1.2	0.001	0.008	0.5	0.000	0.002	0.5	0.000	0.000	0.000	0.003
Compotes and cooked fruit	0.001	0.009	1.2	0.002	0.016	0.8	0.001	0.013	0.6	0.001	0.008	1.0	0.000	0.000	0.000	0.005
Seasonings and sauces	0.000	0.001	0.1	0.000	0.001	0.1	0.001	0.004	0.4	0.000	0.000	0.0	0.000	0.000	0.000	0.002
TOTAL	**0.078**	**0.147**	**100.0**	**0.204**	**0.374**	**100.0**	**0.196**	**0.403**	**100.0**	**0.076**	**0.145**	**100.0**	**0.000**	**0.073**	**0.000**	**0.142**

Food group	HCB contrib (LB)	HCB contrib (UB)	HCH mean (UB)	HCH P95 (UB)	HCH contrib (UB)	Heptachlor mean (UB)	Heptachlor P95 (UB)	Heptachlor contrib (UB)	Lindane mean (LB)	Lindane mean (UB)	Lindane P95 (LB)	Lindane P95 (UB)	Lindane contrib (LB)	Lindane contrib (UB)	Toxaphene mean (UB)	Toxaphene P95 (UB)	Toxaphene contrib (UB)
Bread and dried bread products	0.0	5.2	0.011	0.030	7.3	0.015	0.041	8.2	0.000	0.025	0.000	0.068	0.0	16.9			
Breakfast cereals	0.0	0.8	0.002	0.009	1.2	0.002	0.012	1.3	0.000	0.004	0.000	0.020	0.0	2.7			
Pasta	0.0	3.3	0.007	0.019	4.7	0.010	0.025	5.2	0.000	0.016	0.000	0.042	0.0	10.8			
Rice and wheat products	0.0	1.7	0.004	0.015	2.4	0.005	0.020	2.7	0.000	0.008	0.000	0.033	0.0	5.5			
Croissant-like pastries	0.0	1.2	0.003	0.012	1.7	0.003	0.017	1.9	0.000	0.006	0.000	0.028	0.0	3.8			
Sweet and savoury biscuits and bars	0.0	0.9	0.002	0.011	1.3	0.002	0.015	1.2	0.000	0.004	0.000	0.023	0.0	2.6			
Pastries and cakes	0.0	2.0	0.004	0.015	2.9	0.006	0.021	3.2	0.000	0.010	0.000	0.034	0.0	6.6			
Milk	0.0	3.2	0.008	0.026	5.1	0.007	0.024	3.8	0.000	0.002	0.000	0.008	0.0	1.6	0.004	0.013	35.7
Ultra-fresh dairy products	0.0	1.4	0.004	0.012	2.3	0.003	0.011	1.7	0.000	0.001	0.000	0.004	0.0	0.7	0.002	0.006	16.0
Cheese	0.0	0.3	0.001	0.003	0.5	0.001	0.003	0.4	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.001	3.7
Eggs and egg products	0.0	0.4	0.001	0.003	0.4	0.001	0.003	0.3	0.000	0.001	0.000	0.003	2.0	0.4	0.000	0.001	2.5
Butter	0.0	0.2	0.000	0.001	0.3	0.000	0.001	0.2	0.000	0.000	0.000	0.000	0.0	0.1	0.000	0.001	1.8
Meat	0.0	1.6	0.002	0.007	1.6	0.002	0.006	1.2	0.000	0.001	0.000	0.003	0.7	0.8	0.001	0.003	10.9
Poultry and game	29.4	0.9	0.001	0.005	0.8	0.001	0.005	0.6	0.001	0.002	0.011	0.011	97.3	1.1	0.001	0.003	5.6
Offal	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.1
Delicatessen meats	70.6	0.9	0.001	0.004	0.8	0.001	0.003	0.6	0.000	0.001	0.000	0.002	0.0	0.4	0.001	0.002	5.6
Fish	0.0	0.2	0.001	0.003	0.4	0.001	0.002	0.3	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	2.7
Crustaceans and molluscs	0.0	0.0	0.000	0.001	0.1	0.000	0.001	0.0	0.000	0.000	0.000	0.000	0.0	0.0	0.000	0.001	0.4
Vegetables (excluding potatoes)	0.0	7.0	0.014	0.038	9.2	0.049	0.143	26.8	0.000	0.010	0.000	0.027	0.0	6.8			
Potatoes and potato products	0.0	6.9	0.020	0.053	13.2				0.000	0.007	0.000	0.022	0.0	5.0			
Pulses	0.0	0.7	0.000	0.007	0.1	0.000	0.009	0.1	0.000	0.001	0.000	0.015	0.0	0.5			
Fruits	0.0	4.9	0.011	0.035	7.0	0.011	0.035	5.9	0.000	0.004	0.000	0.016	0.0	2.8			
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.009	0.2	0.000	0.012	0.2	0.000	0.001	0.000	0.019	0.0	0.4			
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.004	0.0	0.000	0.005	0.0	0.000	0.000	0.000	0.008	0.0	0.1			
Chocolate	0.0	0.7	0.001	0.006	0.6	0.001	0.006	0.5	0.000	0.000	0.000	0.003	0.0	0.3			
Sugars and sugar derivatives	0.0	0.2	0.000	0.006	0.3	0.001	0.008	0.3	0.000	0.001	0.000	0.013	0.0	0.6			
Water	0.0	8.7	0.011	0.062	7.0	0.011	0.069	6.3	0.000	0.006	0.000	0.035	0.0	4.3	0.001	0.002	6.9
Soft drinks	0.0	24.4	0.032	0.094	20.8	0.036	0.107	19.6	0.000	0.018	0.000	0.053	0.0	12.3			
Alcoholic beverages	0.0	0.9	0.001	0.029	0.7	0.001	0.033	0.7	0.000	0.001	0.000	0.017	0.0	0.4			
Coffee	0.0	2.2	0.003	0.050	1.9	0.003	0.057	1.8	0.000	0.002	0.000	0.029	0.0	1.1			
Other hot beverages	0.0	3.8	0.005	0.035	3.2	0.006	0.039	3.0	0.000	0.003	0.000	0.020	0.0	1.9			
Pizzas, quiches and savoury pastries	0.0	2.4	0.000	0.003	0.1	0.000	0.002	0.1	0.000	0.002	0.000	0.009	0.0	1.2	0.000	0.001	0.8
Sandwiches and snacks	0.0	2.6							0.000	0.002	0.000	0.008	0.0	1.3			
Soups and broths	0.0	3.9							0.000	0.003	0.000	0.020	0.0	1.9			
Mixed dishes	0.0	4.6	0.000	0.002	0.2	0.000	0.002	0.2	0.000	0.003	0.000	0.012	0.0	2.2	0.000	0.001	1.5
Dairy-based desserts	0.0	0.6	0.001	0.008	0.8	0.001	0.007	0.6	0.000	0.001	0.000	0.003	0.0	0.4	0.001	0.004	5.4
Compotes and cooked fruit	0.0	0.6	0.001	0.014	0.9	0.002	0.019	1.0	0.000	0.003	0.000	0.032	0.0	2.1			
Seasonings and sauces	0.0	0.4	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000	0.3
TOTAL	**100.0**	**100.0**	**0.152**	**0.292**	**100.0**	**0.184**	**0.336**	**100.0**	**0.001**	**0.149**	**0.009**	**0.262**	**100.0**	**100.0**	**0.011**	**0.022**	**100.0**

Table G69: Estimated exposure (mean and P95) in children aged 15 to 17 years to other pesticide residues (µg/kg bw/day) and contribution of foods (%)

Food group	Biphenyl mean (UB)	Biphenyl P95 (UB)	Biphenyl contrib (UB)	Deltamethrin mean (LB)	Deltamethrin mean (UB)	Deltamethrin P95 (UB)	Deltamethrin contrib (LB)	Deltamethrin contrib (UB)	Diquat mean (UB)	Diquat P95 (UB)	Diquat contrib (UB)	Ethoxyquin mean (LB)	Ethoxyquin mean (UB)	Ethoxyquin P95 (LB)	Ethoxyquin P95 (UB)
Bread and dried bread products				0.000	0.009	0.024	0.0	3.9				0.000	0.006	0.000	0.017
Breakfast cereals				0.000	0.001	0.007	0.0	0.6				0.000	0.001	0.000	0.005
Pasta				0.000	0.006	0.015	0.0	2.5				0.000	0.004	0.000	0.011
Rice and wheat products				0.000	0.003	0.012	0.0	1.3				0.000	0.002	0.000	0.008
Croissant-like pastries				0.000	0.002	0.010	0.0	0.9				0.000	0.001	0.000	0.007
Sweet and savoury biscuits and bars				0.000	0.002	0.013	0.0	1.0				0.000	0.001	0.000	0.006
Pastries and cakes				0.000	0.003	0.012	0.0	1.5				0.000	0.002	0.000	0.009
Milk				0.000	0.008	0.026	0.0	3.4	0.008	0.026	59.7	0.000	0.078	0.000	0.262
Ultra-fresh dairy products				0.000	0.004	0.012	0.0	1.5	0.003	0.011	23.0	0.000	0.003	0.000	0.070
Cheese				0.000	0.001	0.003	0.0	0.4							
Eggs and egg products				0.000	0.001	0.003	0.0	0.2							
Butter				0.000	0.000	0.001	0.0	0.2							
Meat				0.000	0.002	0.007	0.0	1.1							
Poultry and game				0.000	0.001	0.005	0.0	0.5							
Offal				0.000	0.000	0.002	0.0	0.0							
Delicatessen meats				0.000	0.001	0.004	0.0	0.5							
Fish				0.000	0.001	0.003	0.0	0.3							
Crustaceans and molluscs				0.000	0.000	0.001	0.0	0.0							
Vegetables (excluding potatoes)				0.000	0.023	0.066	0.0	10.4				0.000	0.009	0.000	0.025
Potatoes and potato products				0.000	0.041	0.121	0.0	17.9							
Pulses				0.000	0.002	0.036	0.0	1.1				0.000	0.000	0.000	0.004
Fruits	0.006	0.020	16.3	0.000	0.004	0.013	0.0	1.6				0.003	0.003	0.059	0.059
Dried fruits, nuts and seeds				0.000	0.000	0.007	0.0	0.1				0.000	0.000	0.000	0.005
Ice creams, sorbets and frozen desserts				0.000	0.000	0.003	0.0	0.0				0.000	0.000	0.000	0.002
Chocolate	0.000	0.003	1.4	0.000	0.001	0.006	0.0	0.4							
Sugars and sugar derivatives	0.000	0.001	0.1	0.000	0.000	0.004	0.0	0.2				0.000	0.000	0.000	0.003
Water	0.006	0.035	18.0	0.000	0.012	0.070	0.0	5.3	0.001	0.002	5.8	0.000	0.001	0.000	0.002
Soft drinks	0.018	0.053	50.1	0.000	0.036	0.107	0.0	15.8				0.000	0.000	0.000	0.003
Alcoholic beverages	0.001	0.017	1.8	0.000	0.001	0.033	0.0	0.5							
Coffee	0.002	0.029	4.6	0.000	0.003	0.057	0.0	1.4							
Other hot beverages	0.003	0.020	7.8	0.000	0.006	0.039	0.0	2.5							
Pizzas, quiches and savoury pastries				0.000	0.009	0.047	0.0	3.9	0.000	0.003	1.4				
Sandwiches and snacks				0.000	0.010	0.042	0.0	4.2							
Soups and broths				0.000	0.014	0.100	0.0	6.3							
Mixed dishes				0.000	0.015	0.061	0.0	6.8	0.000	0.002	2.4				
Dairy-based desserts				0.000	0.001	0.010	0.0	0.6	0.001	0.006	7.1				
Compotes and cooked fruit				0.000	0.001	0.011	0.0	0.5				0.000	0.001	0.002	0.013
Seasonings and sauces				0.000	0.002	0.009	0.0	0.7							
TOTAL	**0.036**	**0.088**	**100.0**	**0.000**	**0.227**	**0.397**	**100.0**	**100.0**	**0.013**	**0.033**	**100.0**	**0.003**	**0.113**	**0.020**	**0.285**

Food group	Ethoxyquin contrib (LB)	Ethoxyquin contrib (UB)	Fenpropimorph mean (UB)	Fenpropimorph P95 (UB)	Fenpropimorph contrib (UB)	Ofurace mean (UB)	Ofurace P95 (UB)	Ofurace contrib (UB)	Rotenone mean (UB)	Rotenone P95 (UB)	Rotenone contrib (UB)
Bread and dried bread products	0.0	5.6	0.006	0.017	12.9						
Breakfast cereals	0.0	0.9	0.001	0.005	2.1						
Pasta	0.0	3.5	0.004	0.011	8.2						
Rice and wheat products	0.0	1.8	0.002	0.008	4.2						
Croissant-like pastries	0.0	1.3	0.001	0.007	2.9						
Sweet and savoury biscuits and bars	0.0	0.8	0.001	0.006	1.9						
Pastries and cakes	0.0	2.2	0.002	0.009	5.1						
Milk	0.0	68.9	0.004	0.013	8.0	0.004	0.013	35.9	0.004	0.013	40.3
Ultra-fresh dairy products	0.0	2.2	0.002	0.006	3.1	0.002	0.006	16.1	0.002	0.006	15.5
Cheese						0.000	0.001	3.7			
Eggs and egg products						0.000	0.001	2.5	0.000	0.001	2.9
Butter						0.000	0.001	1.8			
Meat						0.001	0.003	10.4	0.001	0.003	11.7
Poultry and game						0.001	0.003	5.7	0.001	0.003	6.4
Offal						0.000	0.001	0.1	0.000	0.001	0.1
Delicatessen meats						0.001	0.002	5.7	0.001	0.002	6.4
Fish						0.000	0.001	2.7			
Crustaceans and molluscs						0.000	0.001	0.4			
Vegetables (excluding potatoes)	0.0	8.0	0.017	0.048	34.3						
Potatoes and potato products											
Pulses	0.0	0.1	0.000	0.004	0.1						
Fruits	96.1	2.6	0.006	0.020	12.2						
Dried fruits, nuts and seeds	0.0	0.1	0.000	0.005	0.3						
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.002	0.1						
Chocolate											
Sugars and sugar derivatives	0.0	0.2	0.000	0.003	0.4						
Water	0.0	0.7	0.001	0.002	1.6	0.001	0.002	6.9	0.001	0.002	7.8
Soft drinks	0.0	0.1	0.000	0.003	0.3						
Alcoholic beverages											
Coffee											
Other hot beverages											
Pizzas, quiches and savoury pastries			0.000	0.001	0.2	0.000	0.001	0.8	0.000	0.001	1.0
Sandwiches and snacks											
Soups and broths											
Mixed dishes			0.000	0.001	0.3	0.000	0.001	1.5	0.000	0.001	1.7
Dairy-based desserts						0.001	0.004	5.4	0.001	0.004	6.0
Compotes and cooked fruit	3.9	1.0	0.001	0.008	1.6						
Seasonings and sauces						0.000	0.000	0.3	0.000	0.000	0.4
TOTAL	**100.0**	**100.0**	**0.049**	**0.089**	**100.0**	**0.011**	**0.022**	**100.0**	**0.010**	**0.020**	**100.0**

Table G70: Estimated exposure (mean and P95) in elderly people to carbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Aldicarb mean (UB)	Aldicarb P95 (UB)	Aldicarb contrib (UB)	Carbaryl mean (LB)	Carbaryl mean (UB)	Carbaryl P95 (UB)	Carbaryl contrib (LB)	Carbaryl contrib (UB)	Carbendazim mean (LB)	Carbendazim mean (UB)	Carbendazim P95 (LB)	Carbendazim P95 (UB)
Bread and dried bread products				0.000	0.006	0.013	0.0	4.4	0.000	0.010	0.000	0.021
Breakfast cereals				0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.000	0.008
Pasta				0.000	0.001	0.004	0.0	0.9	0.000	0.002	0.000	0.007
Rice and wheat products				0.000	0.001	0.004	0.0	0.5	0.000	0.001	0.000	0.007
Croissant-like pastries				0.000	0.000	0.003	0.0	0.2	0.000	0.000	0.000	0.004
Sweet and savoury biscuits and bars	0.000	0.002	0.0	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.002
Pastries and cakes				0.000	0.001	0.005	0.0	0.8	0.000	0.002	0.000	0.008
Milk	0.020	0.114	11.1	0.000	0.002	0.010	0.0	1.2	0.000	0.002	0.000	0.010
Ultra-fresh dairy products	0.002	0.008	1.2	0.000	0.002	0.006	100.0	1.1	0.000	0.002	0.000	0.006
Cheese	0.001	0.004	0.8	0.000	0.001	0.002	0.0	0.5	0.000	0.001	0.000	0.002
Eggs and egg products	0.004	0.015	2.4	0.000	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001
Butter	0.001	0.002	0.3									
Meat	0.009	0.027	5.4	0.000	0.001	0.002	0.0	0.6	0.000	0.001	0.000	0.002
Poultry and game	0.006	0.026	3.3	0.000	0.001	0.002	0.0	0.4	0.000	0.001	0.000	0.002
Offal	0.000	0.011	0.3	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Delicatessen meats	0.007	0.020	3.9	0.000	0.001	0.002	0.0	0.4	0.000	0.001	0.000	0.002
Fish	0.001	0.005	0.6	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001
Crustaceans and molluscs	0.000	0.003	0.2	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001
Vegetables (excluding potatoes)	0.002	0.019	1.0	0.000	0.034	0.079	0.0	24.5	0.000	0.016	0.000	0.037
Potatoes and potato products	0.016	0.045	9.3	0.000	0.004	0.012	0.0	3.2	0.000	0.012	0.000	0.034
Pulses	0.002	0.016	1.0	0.000	0.001	0.004	0.0	0.4	0.000	0.001	0.000	0.011
Fruits	0.053	0.134	30.2	0.000	0.013	0.033	0.0	9.7	0.019	0.040	0.106	0.135
Dried fruits, nuts and seeds				0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts				0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001
Chocolate				0.000	0.000	0.001	0.0	0.1				
Sugars and sugar derivatives	0.000	0.000	0.0	0.000	0.001	0.003	0.0	0.5	0.000	0.001	0.000	0.005
Water	0.002	0.007	1.2	0.000	0.014	0.065	0.0	10.3	0.006	0.008	0.036	0.036
Soft drinks	0.000	0.002	0.2	0.000	0.003	0.024	0.0	2.3	0.000	0.000	0.000	0.003
Alcoholic beverages	0.001	0.005	0.7	0.000	0.013	0.049	0.0	9.4	0.000	0.001	0.000	0.005
Coffee				0.000	0.014	0.041	0.0	10.3				
Other hot beverages	0.000	0.001	0.0	0.000	0.010	0.070	0.0	7.5	0.000	0.000	0.000	0.001
Pizzas, quiches and savoury pastries	0.001	0.019	0.8	0.000	0.000	0.005	0.0	0.2	0.000	0.001	0.000	0.021
Sandwiches and snacks	0.000	0.018	0.2	0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.000	0.020
Soups and broths	0.035	0.132	19.7	0.000	0.009	0.036	0.0	6.8	0.000	0.024	0.000	0.089
Mixed dishes	0.007	0.045	4.2	0.000	0.002	0.012	0.0	1.5	0.000	0.008	0.000	0.048
Dairy-based desserts	0.003	0.027	1.7	0.000	0.001	0.007	0.0	0.5	0.000	0.001	0.000	0.020
Compotes and cooked fruit				0.000	0.001	0.007	0.0	0.7	0.000	0.002	0.000	0.012
Seasonings and sauces	0.001	0.005	0.4	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.004
TOTAL	**0.176**	**0.315**	**100.0**	**0.000**	**0.138**	**0.226**	**100.0**	**100.0**	**0.025**	**0.139**	**0.140**	**0.271**

Food group	Carbendazim contrib (LB)	Carbendazim contrib (UB)	Carbetamide mean (UB)	Carbetamide P95 (UB)	Carbetamide contrib (UB)	Carbofuran mean (LB)	Carbofuran mean (UB)	Carbofuran P95 (LB)	Carbofuran P95 (UB)	Carbofuran contrib (LB)	Carbofuran contrib (UB)	Methomyl mean (LB)	Methomyl mean (UB)
Bread and dried bread products	0.0	7.2				0.000	0.010	0.000	0.021	0.0	7.2		
Breakfast cereals	0.0	0.1				0.000	0.000	0.000	0.008	0.0	0.1		
Pasta	0.0	1.4				0.000	0.002	0.000	0.007	0.0	1.4		
Rice and wheat products	0.0	0.9				0.000	0.001	0.000	0.007	0.0	0.9		
Croissant-like pastries	0.0	0.3				0.000	0.000	0.000	0.004	0.0	0.3		
Sweet and savoury biscuits and bars	0.0	0.2				0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.000
Pastries and cakes	0.0	1.3				0.000	0.002	0.000	0.008	0.0	1.3		
Milk	0.0	1.2	0.002	0.010	20.6	0.000	0.002	0.000	0.010	0.0	1.2	0.000	0.002
Ultra-fresh dairy products	0.0	1.1	0.002	0.006	19.0	0.000	0.001	0.000	0.005	0.0	0.9	0.000	0.002
Cheese	0.0	0.5	0.001	0.002	8.9							0.000	0.001
Eggs and egg products	0.0	0.3	0.000	0.001	4.9	0.000	0.000	0.000	0.001	0.0	0.3	0.000	0.000
Butter			0.000	0.001	3.5							0.000	0.000
Meat	0.0	0.6	0.001	0.002	10.0	0.000	0.001	0.000	0.002	0.0	0.6	0.000	0.001
Poultry and game	0.0	0.4	0.001	0.002	6.1	0.000	0.001	0.000	0.002	0.0	0.4	0.000	0.001
Offal	0.0	0.0	0.000	0.001	0.5	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000
Delicatessen meats	0.0	0.4	0.001	0.002	7.2	0.000	0.001	0.000	0.002	0.0	0.4	0.000	0.001
Fish	0.0	0.2	0.000	0.001	3.3	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000
Crustaceans and molluscs	0.0	0.1	0.000	0.001	1.1	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000
Vegetables (excluding potatoes)	0.0	11.6				0.001	0.029	0.002	0.067	100.0	20.9	0.000	0.001
Potatoes and potato products	0.0	8.6				0.000	0.004	0.000	0.012	0.0	3.2	0.000	0.006
Pulses	0.0	0.9				0.000	0.001	0.000	0.005	0.0	0.4	0.000	0.001
Fruits	76.4	28.4				0.000	0.013	0.000	0.033	0.0	9.6	0.000	0.020
Dried fruits, nuts and seeds	0.0	0.1				0.000	0.000	0.000	0.003	0.0	0.1		
Ice creams, sorbets and frozen desserts	0.0	0.0				0.000	0.000	0.000	0.001	0.0	0.0		
Chocolate						0.000	0.000	0.000	0.001	0.0	0.1		
Sugars and sugar derivatives	0.0	0.7				0.000	0.001	0.000	0.005	0.0	0.8	0.000	0.000
Water	23.6	5.7	0.001	0.002	8.0	0.000	0.014	0.000	0.065	0.0	10.2	0.000	0.003
Soft drinks	0.0	0.2				0.000	0.003	0.000	0.024	0.0	2.2	0.000	0.000
Alcoholic beverages	0.0	1.0				0.000	0.013	0.000	0.049	0.0	9.3	0.000	0.002
Coffee						0.000	0.014	0.000	0.041	0.0	10.2		
Other hot beverages	0.0	0.0				0.000	0.010	0.000	0.070	0.0	7.4	0.000	0.000
Pizzas, quiches and savoury pastries	0.0	1.0	0.000	0.002	0.8	0.000	0.000	0.000	0.005	0.0	0.3	0.000	0.001
Sandwiches and snacks	0.0	0.3				0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.000
Soups and broths	0.0	17.4				0.000	0.009	0.000	0.036	0.0	6.7	0.000	0.014
Mixed dishes	0.0	5.6	0.000	0.001	0.1	0.000	0.002	0.000	0.012	0.0	1.4	0.000	0.003
Dairy-based desserts	0.0	0.9	0.000	0.003	5.8	0.000	0.001	0.000	0.007	0.0	0.5	0.000	0.001
Compotes and cooked fruit	0.0	1.1				0.000	0.002	0.000	0.012	0.0	1.1		
Seasonings and sauces	0.0	0.3	0.000	0.000	0.2	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000
TOTAL	**100.0**	**100.0**	**0.008**	**0.016**	**100.0**	**0.001**	**0.139**	**0.002**	**0.227**	**100.0**	**100.0**	**0.000**	**0.061**

Food group	Methomyl P95 (LB)	Methomyl P95 (UB)	Methomyl contrib (LB)	Methomyl contrib (UB)	Triallate mean (UB)	Triallate P95 (UB)	Triallate contrib (UB)
Bread and dried bread products							
Breakfast cereals							
Pasta							
Rice and wheat products							
Croissant-like pastries							
Sweet and savoury biscuits and bars	0.000	0.001	0.0	0.0			
Pastries and cakes							
Milk	0.000	0.015	0.0	4.1	0.001	0.006	18.5
Ultra-fresh dairy products	0.000	0.009	0.0	3.8	0.001	0.004	17.1
Cheese	0.000	0.003	0.0	1.8	0.000	0.001	8.0
Eggs and egg products	0.000	0.001	0.0	0.7	0.000	0.001	7.3
Butter	0.000	0.001	0.0	0.7	0.000	0.001	3.2
Meat	0.000	0.002	0.0	1.4	0.001	0.001	10.4
Poultry and game	0.000	0.002	0.0	0.8	0.000	0.001	5.5
Offal	0.000	0.001	0.0	0.1	0.000	0.001	0.5
Delicatessen meats	0.000	0.002	0.0	1.0	0.000	0.001	6.5
Fish	0.000	0.001	0.0	0.5	0.000	0.001	3.0
Crustaceans and molluscs	0.000	0.001	0.0	0.2	0.000	0.001	1.0
Vegetables (excluding potatoes)	0.000	0.007	0.0	1.1			
Potatoes and potato products	0.000	0.018	0.0	10.6			
Pulses	0.000	0.006	0.0	1.1			
Fruits	0.000	0.051	100.0	33.4			
Dried fruits, nuts and seeds							
Ice creams, sorbets and frozen desserts							
Chocolate							
Sugars and sugar derivatives	0.000	0.000	0.0	0.0			
Water	0.000	0.010	0.0	4.4	0.001	0.002	12.1
Soft drinks	0.000	0.004	0.0	0.7			
Alcoholic beverages	0.000	0.007	0.0	3.1			
Coffee							
Other hot beverages	0.000	0.001	0.0	0.0			
Pizzas, quiches and savoury pastries	0.000	0.008	0.0	1.0	0.000	0.001	0.7
Sandwiches and snacks	0.000	0.007	0.0	0.3			
Soups and broths	0.000	0.052	0.0	22.5			
Mixed dishes	0.000	0.018	0.0	4.8	0.000	0.000	0.1
Dairy-based desserts	0.000	0.011	0.0	1.6	0.000	0.002	5.8
Compotes and cooked fruit							
Seasonings and sauces	0.000	0.002	0.0	0.4	0.000	0.000	0.3
TOTAL	**0.000**	**0.112**	**100.0**	**100.0**	**0.006**	**0.011**	**100.0**

Table G71: Estimated exposure (mean and P95) in elderly people to dicarboximides (µg/kg bw/day) and contribution of foods (%)

Food group	Folpet mean (LB)	Folpet mean (UB)	Folpet P95 (UB)	Folpet contrib (LB)	Folpet contrib (UB)	Iprodione mean (LB)	Iprodione mean (UB)	Iprodione P95 (LB)	Iprodione P95 (UB)	Iprodione contrib (LB)	Iprodione contrib (UB)
Bread and dried bread products	0.000	0.010	0.021	0.0	3.5	0.000	0.010	0.000	0.021	0.0	2.0
Breakfast cereals	0.000	0.000	0.008	0.0	0.1	0.000	0.000	0.000	0.008	0.0	0.0
Pasta	0.000	0.002	0.007	0.0	0.7	0.000	0.002	0.000	0.007	0.0	0.4
Rice and wheat products	0.000	0.001	0.007	0.0	0.4	0.000	0.001	0.000	0.007	0.0	0.3
Croissant-like pastries	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.004	0.0	0.1
Sweet and savoury biscuits and bars	0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.0
Pastries and cakes	0.000	0.002	0.008	0.0	0.6	0.000	0.002	0.000	0.008	0.0	0.4
Milk	0.000	0.007	0.040	0.0	2.4	0.000	0.007	0.000	0.040	0.0	1.4
Ultra-fresh dairy products	0.000	0.009	0.031	0.0	3.0	0.000	0.009	0.000	0.031	0.0	1.7
Cheese	0.000	0.007	0.019	0.0	2.6	0.000	0.007	0.000	0.019	0.0	1.5
Eggs and egg products	0.000	0.004	0.014	0.0	1.4	0.000	0.004	0.000	0.014	0.0	0.8
Butter	0.000	0.003	0.008	0.0	1.0	0.000	0.003	0.000	0.008	0.0	0.6
Meat	0.000	0.010	0.024	0.0	3.4	0.000	0.010	0.000	0.024	0.0	2.0
Poultry and game	0.000	0.005	0.022	0.0	1.7	0.000	0.005	0.000	0.022	0.0	1.0
Offal	0.000	0.000	0.009	0.0	0.1	0.000	0.000	0.000	0.009	0.0	0.1
Delicatessen meats	0.000	0.006	0.017	0.0	2.1	0.000	0.006	0.000	0.017	0.0	1.2
Fish	0.000	0.001	0.005	0.0	0.4	0.000	0.001	0.000	0.005	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.004	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.030	0.070	0.0	10.5	0.197	0.209	0.735	0.746	74.7	42.4
Potatoes and potato products	0.000	0.047	0.234	0.0	16.4	0.000	0.009	0.000	0.026	0.0	1.8
Pulses	0.000	0.001	0.006	0.0	0.3	0.000	0.001	0.000	0.009	0.0	0.2
Fruits	0.001	0.009	0.026	100.0	3.3	0.048	0.058	0.230	0.248	18.1	11.7
Dried fruits, nuts and seeds	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.0
Ice creams, sorbets and frozen desserts	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Sugars and sugar derivatives	0.000	0.001	0.006	0.0	0.4	0.000	0.001	0.000	0.006	0.0	0.3
Water	0.000	0.028	0.131	0.0	9.6	0.000	0.028	0.000	0.131	0.0	5.6
Soft drinks	0.000	0.006	0.048	0.0	2.2	0.000	0.006	0.000	0.048	0.0	1.3
Alcoholic beverages	0.000	0.026	0.098	0.0	9.0	0.019	0.035	0.076	0.132	7.2	7.2
Coffee	0.000	0.028	0.081	0.0	9.9	0.000	0.028	0.000	0.081	0.0	5.8
Other hot beverages	0.000	0.021	0.140	0.0	7.2	0.000	0.021	0.000	0.140	0.0	4.2
Pizzas, quiches and savoury pastries	0.000	0.001	0.007	0.0	0.3	0.000	0.001	0.000	0.011	0.0	0.2
Sandwiches and snacks	0.000	0.000	0.007	0.0	0.1	0.000	0.000	0.000	0.010	0.0	0.0
Soups and broths	0.000	0.013	0.050	0.0	4.6	0.000	0.019	0.000	0.071	0.0	3.8
Mixed dishes	0.000	0.003	0.017	0.0	1.0	0.000	0.004	0.000	0.024	0.0	0.8
Dairy-based desserts	0.000	0.003	0.025	0.0	0.9	0.000	0.003	0.000	0.025	0.0	0.6
Compotes and cooked fruit	0.000	0.002	0.012	0.0	0.5	0.000	0.002	0.000	0.012	0.0	0.3
Seasonings and sauces	0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1
TOTAL	**0.001**	**0.288**	**0.496**	**100.0**	**100.0**	**0.263**	**0.494**	**0.834**	**1.168**	**100.0**	**100.0**

Food group	Vinclozolin mean (LB)	Vinclozolin mean (UB)	Vinclozolin P95 (LB)	Vinclozolin P95 (UB)	Vinclozolin contrib (LB)	Vinclozolin contrib (UB)
Bread and dried bread products	0.000	0.010	0.000	0.021	0.0	4.0
Breakfast cereals	0.000	0.000	0.000	0.008	0.0	0.1
Pasta	0.000	0.002	0.000	0.007	0.0	0.8
Rice and wheat products	0.000	0.001	0.000	0.007	0.0	0.5
Croissant-like pastries	0.000	0.000	0.000	0.004	0.0	0.2
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.002	0.0	0.1
Pastries and cakes	0.000	0.002	0.000	0.008	0.0	0.7
Milk	0.000	0.018	0.000	0.106	0.0	7.2
Ultra-fresh dairy products	0.000	0.017	0.000	0.063	0.0	6.6
Cheese	0.000	0.008	0.000	0.020	0.0	3.1
Eggs and egg products	0.000	0.004	0.000	0.016	0.0	1.8
Butter	0.000	0.003	0.000	0.009	0.0	1.2
Meat	0.000	0.010	0.000	0.025	0.0	4.1
Poultry and game	0.000	0.005	0.000	0.024	0.0	2.1
Offal	0.000	0.000	0.000	0.010	0.0	0.2
Delicatessen meats	0.000	0.006	0.000	0.018	0.0	2.5
Fish	0.000	0.003	0.000	0.014	0.0	1.2
Crustaceans and molluscs	0.000	0.001	0.000	0.010	0.0	0.4
Vegetables (excluding potatoes)	0.006	0.065	0.023	0.147	100.0	25.9
Potatoes and potato products	0.000	0.005	0.000	0.014	0.0	1.9
Pulses	0.000	0.001	0.000	0.005	0.0	0.2
Fruits	0.000	0.013	0.000	0.033	0.0	5.3
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.000	0.000	0.000	0.001	0.0	0.1
Sugars and sugar derivatives	0.000	0.001	0.000	0.005	0.0	0.4
Water	0.000	0.014	0.000	0.065	0.0	5.6
Soft drinks	0.000	0.003	0.000	0.024	0.0	1.2
Alcoholic beverages	0.000	0.013	0.000	0.049	0.0	5.1
Coffee	0.000	0.014	0.000	0.041	0.0	5.6
Other hot beverages	0.000	0.010	0.000	0.070	0.0	4.1
Pizzas, quiches and savoury pastries	0.000	0.001	0.000	0.018	0.0	0.4
Sandwiches and snacks	0.000	0.000	0.000	0.005	0.0	0.0
Soups and broths	0.000	0.009	0.000	0.036	0.0	3.7
Mixed dishes	0.000	0.002	0.000	0.012	0.0	0.8
Dairy-based desserts	0.000	0.005	0.000	0.037	0.0	2.1
Compotes and cooked fruit	0.000	0.002	0.000	0.012	0.0	0.6
Seasonings and sauces	0.000	0.000	0.000	0.002	0.0	0.1
TOTAL	**0.006**	**0.252**	**0.023**	**0.381**	**100.0**	**100.0**

Table G72: Estimated exposure (mean and P95) in elderly people to dithiocarbamates (µg/kg bw/day) and contribution of foods (%)

Food group	Dithiocarbamates mean (UB)	Dithiocarbamates P95 (UB)	Dithiocarbamates contrib (UB)
Bread and dried bread products	0.399	0.852	21.2
Breakfast cereals	0.006	0.333	0.3
Pasta	0.080	0.266	4.3
Rice and wheat products	0.049	0.262	2.6
Croissant-like pastries	0.005	0.169	0.3
Sweet and savoury biscuits and bars	0.003	0.055	0.2
Pastries and cakes	0.011	0.152	0.6
Milk	0.003	0.020	0.2
Ultra-fresh dairy products	0.002	0.009	0.1
Cheese			
Eggs and egg products			
Butter			
Meat			
Poultry and game			
Offal			
Delicatessen meats			
Fish			
Crustaceans and molluscs			
Vegetables (excluding potatoes)	0.122	0.307	6.5
Potatoes and potato products	0.075	0.210	4.0
Pulses	0.010	0.089	0.5
Fruits	0.531	1.339	28.2
Dried fruits, nuts and seeds			
Ice creams, sorbets and frozen desserts			
Chocolate			
Sugars and sugar derivatives			
Water	0.001	0.002	0.0
Soft drinks	0.096	0.941	5.1
Alcoholic beverages	0.380	1.551	20.1
Coffee			
Other hot beverages			
Pizzas, quiches and savoury pastries	0.000	0.003	0.0
Sandwiches and snacks			
Soups and broths	0.054	0.197	2.9
Mixed dishes	0.000	0.001	0.0
Dairy-based desserts	0.002	0.019	0.1
Compotes and cooked fruit	0.053	0.488	2.8
Seasonings and sauces	0.001	0.006	0.0
TOTAL	**1.885**	**3.059**	**100.0**

Table G73: Estimated exposure (mean and P95) in elderly people to imidazoles (µg/kg bw/day) and contribution of foods (%)

Food group	Imazalil mean (LB)	Imazalil mean (UB)	Imazalil P95 (LB)	Imazalil P95 (UB)	Imazalil contrib (LB)	Imazalil contrib (UB)	Prochloraz mean (UB)	Prochloraz P95 (UB)	Prochloraz contrib (UB)
Bread and dried bread products	0.000	0.200	0.000	0.426	0.0	23.7	0.010	0.021	3.3
Breakfast cereals	0.000	0.003	0.000	0.167	0.0	0.4	0.000	0.008	0.0
Pasta	0.000	0.040	0.000	0.133	0.0	4.8	0.002	0.007	0.7
Rice and wheat products	0.000	0.025	0.000	0.131	0.0	2.9	0.001	0.007	0.4
Croissant-like pastries	0.000	0.008	0.000	0.088	0.0	0.9	0.000	0.004	0.1
Sweet and savoury biscuits and bars	0.000	0.004	0.000	0.032	0.0	0.5	0.000	0.002	0.1
Pastries and cakes	0.000	0.035	0.000	0.151	0.0	4.2	0.002	0.008	0.6
Milk	0.000	0.002	0.000	0.010	0.0	0.2	0.002	0.010	0.6
Ultra-fresh dairy products	0.000	0.001	0.000	0.005	0.0	0.1	0.001	0.005	0.4
Cheese									
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.0			
Butter									
Meat	0.000	0.002	0.000	0.005	0.0	0.2			
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.1			
Offal	0.000	0.000	0.000	0.002	0.0	0.0			
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	0.1			
Fish							0.000	0.001	0.1
Crustaceans and molluscs	0.000	0.000	0.001	0.002	0.0	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.058	0.000	0.152	0.0	6.9	0.015	0.034	5.1
Potatoes and potato products	0.037	0.049	0.260	0.284	36.7	5.8	0.006	0.018	1.9
Pulses	0.000	0.004	0.000	0.043	0.0	0.4	0.001	0.005	0.2
Fruits	0.056	0.105	0.373	0.396	55.7	12.5	0.027	0.067	8.8
Dried fruits, nuts and seeds	0.000	0.004	0.000	0.052	0.0	0.4	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.017	0.0	0.0	0.000	0.001	0.0
Chocolate	0.000	0.001	0.000	0.006	0.0	0.1	0.001	0.006	0.2
Sugars and sugar derivatives	0.000	0.020	0.000	0.096	0.0	2.3	0.002	0.009	0.5
Water	0.000	0.055	0.000	0.261	0.0	6.5	0.055	0.261	18.0
Soft drinks	0.008	0.019	0.129	0.165	7.6	2.3	0.012	0.097	4.1
Alcoholic beverages	0.000	0.052	0.000	0.195	0.0	6.1	0.052	0.195	17.0
Coffee	0.000	0.057	0.000	0.163	0.0	6.8	0.057	0.163	18.7
Other hot beverages	0.000	0.041	0.000	0.281	0.0	4.9	0.041	0.281	13.6
Pizzas, quiches and savoury pastries	0.000	0.001	0.000	0.011	0.0	0.1	0.000	0.006	0.2
Sandwiches and snacks	0.000	0.000	0.000	0.010	0.0	0.0	0.000	0.006	0.0
Soups and broths	0.000	0.019	0.000	0.071	0.0	2.2	0.011	0.043	3.7
Mixed dishes	0.000	0.004	0.000	0.024	0.0	0.5	0.002	0.014	0.8
Dairy-based desserts	0.000	0.001	0.000	0.013	0.0	0.1	0.001	0.010	0.2
Compotes and cooked fruit	0.000	0.031	0.000	0.234	0.0	3.7	0.002	0.012	0.5
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.002	0.1
TOTAL	**0.101**	**0.841**	**0.527**	**1.477**	**100.0**	**100.0**	**0.304**	**0.647**	**100.0**

Table G74: Estimated exposure (mean and P95) in elderly people to organochlorines (µg/kg bw/day) and contribution of foods (%)

Food group	Chlorothalonil mean (LB)	Chlorothalonil mean (UB)	Chlorothalonil P95 (LB)	Chlorothalonil P95 (UB)	Chlorothalonil contrib (LB)	Chlorothalonil contrib (UB)	Dicofol mean (UB)	Dicofol P95 (UB)	Dicofol contrib (UB)	Endosulfan mean (LB)	Endosulfan mean (UB)	Endosulfan P95 (LB)	Endosulfan P95 (UB)	Endosulfan contrib (LB)	Endosulfan contrib (UB)
Bread and dried bread products	0.000	0.006	0.000	0.013	0.0	5.0	0.014	0.030	5.7	0.000	0.018	0.000	0.038	0.0	3.9
Breakfast cereals	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.012	0.1	0.000	0.000	0.000	0.015	0.0	0.1
Pasta	0.000	0.001	0.000	0.004	0.0	1.0	0.003	0.009	1.1	0.000	0.004	0.000	0.012	0.0	0.8
Rice and wheat products	0.000	0.001	0.000	0.004	0.0	0.6	0.002	0.009	0.7	0.000	0.002	0.000	0.012	0.0	0.5
Croissant-like pastries	0.000	0.000	0.000	0.003	0.0	0.2	0.001	0.006	0.2	0.000	0.001	0.000	0.008	0.0	0.2
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.002	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Pastries and cakes	0.000	0.001	0.000	0.005	0.0	0.9	0.002	0.011	1.0	0.000	0.003	0.000	0.013	0.0	0.7
Milk	0.000	0.001	0.000	0.006	0.0	0.9	0.002	0.010	0.7	0.000	0.003	0.000	0.018	0.0	0.7
Ultra-fresh dairy products	0.000	0.001	0.000	0.005	0.0	1.2	0.002	0.007	0.8	0.000	0.003	0.000	0.011	0.0	0.6
Cheese	0.000	0.000	0.000	0.001	0.0	0.4	0.001	0.004	0.6	0.000	0.001	0.000	0.003	0.0	0.3
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.3	0.000	0.001	0.000	0.003	0.0	0.2
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.001	0.002	0.2	0.000	0.001	0.000	0.002	0.0	0.1
Meat	0.000	0.002	0.000	0.005	0.0	1.6	0.002	0.005	0.8	0.000	0.002	0.000	0.004	0.0	0.4
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.8	0.001	0.005	0.4	0.000	0.001	0.000	0.004	0.0	0.2
Offal	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.002	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	1.0	0.001	0.003	0.5	0.000	0.001	0.000	0.003	0.0	0.2
Fish	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.1	0.000	0.000	0.000	0.002	0.0	0.1
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Vegetables (excluding potatoes)	0.002	0.011	0.006	0.029	100.0	9.6	0.036	0.079	14.5	0.000	0.102	0.000	0.233	0.0	22.6
Potatoes and potato products	0.000	0.013	0.000	0.050	0.0	10.9	0.009	0.026	3.7	0.000	0.041	0.000	0.121	0.0	9.1
Pulses	0.000	0.001	0.000	0.004	0.0	0.5	0.001	0.009	0.5	0.000	0.005	0.000	0.044	0.0	1.1
Fruits	0.000	0.008	0.000	0.020	0.0	6.7	0.028	0.069	11.3	0.002	0.026	0.017	0.069	100.0	5.8
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.1	0.000	0.000	0.000	0.005	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.002	0.0	0.0
Chocolate	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.003	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Sugars and sugar derivatives	0.000	0.001	0.000	0.003	0.0	0.6	0.002	0.008	0.7	0.000	0.002	0.000	0.010	0.0	0.4
Water	0.000	0.014	0.000	0.065	0.0	11.9	0.028	0.131	11.3	0.000	0.028	0.000	0.131	0.0	6.2
Soft drinks	0.000	0.003	0.000	0.024	0.0	2.6	0.006	0.048	2.5	0.000	0.006	0.000	0.048	0.0	1.4
Alcoholic beverages	0.000	0.013	0.000	0.049	0.0	10.8	0.026	0.098	10.6	0.000	0.026	0.000	0.098	0.0	5.7
Coffee	0.000	0.014	0.000	0.041	0.0	11.9	0.028	0.081	11.6	0.000	0.028	0.000	0.081	0.0	6.3
Other hot beverages	0.000	0.010	0.000	0.070	0.0	8.7	0.021	0.140	8.5	0.000	0.021	0.000	0.140	0.0	4.6
Pizzas, quiches and savoury pastries	0.000	0.000	0.000	0.005	0.0	0.3	0.001	0.011	0.3	0.000	0.004	0.000	0.052	0.0	0.8
Sandwiches and snacks	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.010	0.1	0.000	0.001	0.000	0.049	0.0	0.2
Soups and broths	0.000	0.009	0.000	0.036	0.0	7.8	0.019	0.071	7.7	0.000	0.093	0.000	0.354	0.0	20.6
Mixed dishes	0.000	0.002	0.000	0.012	0.0	1.7	0.004	0.024	1.6	0.000	0.020	0.000	0.119	0.0	4.5
Dairy-based desserts	0.000	0.001	0.000	0.007	0.0	0.5	0.001	0.013	0.4	0.000	0.003	0.000	0.042	0.0	0.6
Compotes and cooked fruit	0.000	0.001	0.000	0.007	0.0	0.8	0.002	0.016	0.9	0.000	0.003	0.000	0.021	0.0	0.6
Seasonings and sauces	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.003	0.1	0.000	0.001	0.000	0.014	0.0	0.3
TOTAL	**0.002**	**0.120**	**0.006**	**0.218**	**100.0**	**100.0**	**0.245**	**0.410**	**100.0**	**0.002**	**0.451**	**0.014**	**0.800**	**100.0**	**100.0**

Table G75: Estimated exposure (mean and P95) in elderly people to organotins (µg/kg bw/day) and contribution of foods (%)

Food group	Cyhexatin mean (UB)	Cyhexatin P95 (UB)	Cyhexatin contrib (UB)	Fenbutatin oxide mean (UB)	Fenbutatin oxide P95 (UB)	Fenbutatin oxide contrib (UB)	Fentin acetate mean (UB)	Fentin acetate P95 (UB)	Fentin acetate contrib (UB)	Fentin hydroxide mean (UB)	Fentin hydroxide P95 (UB)	Fentin hydroxide contrib (UB)
Bread and dried bread products												
Breakfast cereals												
Pasta												
Rice and wheat products												
Croissant-like pastries												
Sweet and savoury biscuits and bars												
Pastries and cakes												
Milk	0.003	0.020	47.6				0.002	0.010	40.9	0.002	0.010	40.9
Ultra-fresh dairy products	0.000	0.005	0.4	0.000	0.003	13.0	0.000	0.002	0.3	0.000	0.002	0.3
Cheese				0.001	0.002	26.0						
Eggs and egg products	0.001	0.004	17.0				0.001	0.003	19.4	0.001	0.003	19.4
Butter				0.000	0.001	10.3						
Meat												
Poultry and game												
Offal												
Delicatessen meats												
Fish	0.001	0.003	7.7	0.000	0.001	9.8	0.000	0.001	6.6	0.000	0.001	6.6
Crustaceans and molluscs	0.000	0.002	2.6	0.000	0.001	3.3	0.000	0.001	2.2	0.000	0.001	2.2
Vegetables (excluding potatoes)												
Potatoes and potato products												
Pulses												
Fruits												
Dried fruits, nuts and seeds												
Ice creams, sorbets and frozen desserts												
Chocolate												
Sugars and sugar derivatives												
Water	0.001	0.002	9.3	0.001	0.002	23.6	0.001	0.002	16.0	0.001	0.002	16.0
Soft drinks												
Alcoholic beverages												
Coffee												
Other hot beverages												
Pizzas, quiches and savoury pastries												
Sandwiches and snacks												
Soups and broths												
Mixed dishes												
Dairy-based desserts	0.001	0.008	14.6	0.000	0.005	14.1	0.001	0.004	13.6	0.001	0.004	13.6
Compotes and cooked fruit												
Seasonings and sauces	0.000	0.001	0.6				0.000	0.000	0.7	0.000	0.000	0.7
TOTAL	**0.007**	**0.023**	**100.0**	**0.003**	**0.006**	**100.0**	**0.004**	**0.012**	**100.0**	**0.004**	**0.012**	**100.0**

Table G76: Estimated exposure (mean and P95) in elderly people to organophosphates (µg/kg bw/day) and contribution of foods (%)

Food group	Azinphos methyl mean (LB)	Azinphos methyl mean (UB)	Azinphos methyl P95 (LB)	Azinphos methyl P95 (UB)	Azinphos methyl contrib (LB)	Azinphos methyl contrib (UB)	Chlorfenvinphos mean (LB)	Chlorfenvinphos mean (UB)	Chlorfenvinphos P95 (LB)	Chlorfenvinphos P95 (UB)	Chlorfenvinphos contrib (LB)	Chlorfenvinphos contrib (UB)
Bread and dried bread products	0.000	0.010	0.000	0.021	0.0	2.5	0.000	0.006	0.000	0.013	0.0	5.0
Breakfast cereals	0.000	0.000	0.000	0.008	0.0	0.0	0.000	0.000	0.000	0.005	0.0	0.1
Pasta	0.000	0.002	0.000	0.007	0.0	0.5	0.000	0.001	0.000	0.004	0.0	1.0
Rice and wheat products	0.000	0.001	0.000	0.007	0.0	0.3	0.000	0.001	0.000	0.004	0.0	0.6
Croissant-like pastries	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.2
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Pastries and cakes	0.000	0.002	0.000	0.008	0.0	0.4	0.000	0.001	0.000	0.005	0.0	0.9
Milk	0.000	0.009	0.000	0.050	0.0	2.1	0.000	0.002	0.000	0.010	0.0	1.4
Ultra-fresh dairy products	0.000	0.007	0.000	0.023	0.0	1.7	0.000	0.002	0.000	0.006	0.0	1.3
Cheese	0.000	0.001	0.000	0.004	0.0	0.4	0.000	0.001	0.000	0.002	0.0	0.6
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.3
Butter	0.000	0.001	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.2
Meat	0.000	0.002	0.000	0.005	0.0	0.5	0.000	0.001	0.000	0.002	0.0	0.8
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.2	0.000	0.001	0.000	0.002	0.0	0.4
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.001	0.000	0.002	0.0	0.5
Fish	0.000	0.001	0.000	0.007	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Vegetables (excluding potatoes)	0.000	0.066	0.000	0.157	0.0	16.4	0.000	0.015	0.000	0.034	100.0	12.4
Potatoes and potato products	0.000	0.021	0.000	0.084	0.0	5.2	0.000	0.005	0.000	0.014	0.0	4.0
Pulses	0.000	0.001	0.000	0.009	0.0	0.3	0.000	0.001	0.000	0.004	0.0	0.5
Fruits	0.003	0.028	0.021	0.077	100.0	7.0	0.000	0.013	0.000	0.033	0.0	11.1
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.003	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.000	0.001	0.000	0.006	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Sugars and sugar derivatives	0.000	0.002	0.000	0.009	0.0	0.4	0.000	0.001	0.000	0.003	0.0	0.6
Water	0.000	0.055	0.000	0.261	0.0	13.5	0.000	0.014	0.000	0.065	0.0	11.9
Soft drinks	0.000	0.012	0.000	0.097	0.0	3.1	0.000	0.003	0.000	0.024	0.0	2.6
Alcoholic beverages	0.000	0.052	0.000	0.195	0.0	12.8	0.000	0.013	0.000	0.049	0.0	10.8
Coffee	0.000	0.057	0.000	0.163	0.0	14.1	0.000	0.014	0.000	0.041	0.0	11.9
Other hot beverages	0.000	0.041	0.000	0.281	0.0	10.2	0.000	0.010	0.000	0.070	0.0	8.7
Pizzas, quiches and savoury pastries	0.000	0.001	0.000	0.011	0.0	0.2	0.000	0.000	0.000	0.005	0.0	0.3
Sandwiches and snacks	0.000	0.000	0.000	0.010	0.0	0.1	0.000	0.000	0.000	0.005	0.0	0.1
Soups and broths	0.000	0.019	0.000	0.071	0.0	4.6	0.000	0.009	0.000	0.036	0.0	7.8
Mixed dishes	0.000	0.004	0.000	0.024	0.0	1.0	0.000	0.002	0.000	0.012	0.0	1.7
Dairy-based desserts	0.000	0.003	0.000	0.019	0.0	0.6	0.000	0.001	0.000	0.007	0.0	0.6
Compotes and cooked fruit	0.000	0.002	0.000	0.012	0.0	0.4	0.000	0.001	0.000	0.007	0.0	0.8
Seasonings and sauces	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
TOTAL	**0.003**	**0.405**	**0.020**	**0.746**	**100.0**	**100.0**	**0.000**	**0.120**	**0.000**	**0.203**	**100.0**	**100.0**

Food group	Chlorpyrifos ethyl mean (LB)	Chlorpyrifos ethyl mean (UB)	Chlorpyrifos ethyl P95 (LB)	Chlorpyrifos ethyl P95 (UB)	Chlorpyrifos ethyl contrib (LB)	Chlorpyrifos ethyl contrib (UB)	Chlorpyrifos methyl mean (LB)	Chlorpyrifos methyl mean (UB)	Chlorpyrifos methyl P95 (LB)	Chlorpyrifos methyl P95 (UB)	Chlorpyrifos methyl contrib (LB)	Chlorpyrifos methyl contrib (UB)
Bread and dried bread products	0.000	0.006	0.000	0.013	0.0	4.0	0.004	0.014	0.010	0.028	92.3	9.9
Breakfast cereals	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.000	0.005	0.0	0.1
Pasta	0.000	0.001	0.000	0.004	0.0	0.8	0.000	0.001	0.000	0.004	0.0	0.9
Rice and wheat products	0.000	0.001	0.000	0.004	0.0	0.5	0.000	0.001	0.001	0.005	0.8	0.6
Croissant-like pastries	0.000	0.000	0.000	0.003	0.0	0.2	0.000	0.000	0.001	0.006	1.3	0.3
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.001	0.004	1.4	0.2
Pastries and cakes	0.000	0.001	0.000	0.005	0.0	0.7	0.000	0.001	0.000	0.005	0.0	0.8
Milk	0.000	0.001	0.000	0.006	0.0	0.7	0.000	0.001	0.000	0.006	0.0	0.7
Ultra-fresh dairy products	0.000	0.001	0.000	0.004	0.0	0.6	0.000	0.001	0.000	0.004	0.0	0.7
Cheese	0.000	0.000	0.000	0.001	0.0	0.3	0.000	0.000	0.000	0.001	0.0	0.3
Eggs and egg products	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.2
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Meat	0.000	0.001	0.000	0.001	0.0	0.4	0.000	0.001	0.000	0.002	0.0	0.7
Poultry and game	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.001	0.000	0.002	0.0	0.4
Offal	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Delicatessen meats	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.001	0.000	0.002	0.0	0.4
Fish	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.035	0.001	0.083	1.6	23.1	0.000	0.033	0.000	0.079	0.1	24.0
Potatoes and potato products	0.000	0.005	0.000	0.014	0.0	3.2	0.000	0.005	0.000	0.014	0.0	3.4
Pulses	0.000	0.001	0.000	0.004	0.0	0.4	0.000	0.001	0.000	0.004	0.2	0.4
Fruits	0.016	0.027	0.060	0.088	98.4	18.0	0.000	0.008	0.000	0.022	1.7	6.0
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
Sugars and sugar derivatives	0.000	0.001	0.000	0.003	0.0	0.5	0.000	0.001	0.000	0.003	0.0	0.5
Water	0.000	0.014	0.000	0.065	0.0	9.5	0.000	0.014	0.000	0.065	0.0	10.2
Soft drinks	0.000	0.003	0.000	0.024	0.0	2.1	0.000	0.003	0.000	0.024	0.0	2.2
Alcoholic beverages	0.000	0.013	0.000	0.049	0.0	8.6	0.000	0.013	0.000	0.049	0.0	9.3
Coffee	0.000	0.014	0.000	0.041	0.0	9.5	0.000	0.014	0.000	0.041	0.0	10.2
Other hot beverages	0.000	0.010	0.000	0.070	0.0	6.9	0.000	0.010	0.000	0.070	0.0	7.4
Pizzas, quiches and savoury pastries	0.000	0.000	0.000	0.005	0.0	0.3	0.000	0.000	0.000	0.005	0.0	0.3
Sandwiches and snacks	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.000	0.006	0.008	0.8	0.1
Soups and broths	0.000	0.009	0.000	0.036	0.0	6.2	0.000	0.009	0.000	0.036	0.0	6.7
Mixed dishes	0.000	0.002	0.000	0.012	0.0	1.3	0.000	0.002	0.001	0.012	1.5	1.5
Dairy-based desserts	0.000	0.000	0.000	0.006	0.0	0.3	0.000	0.000	0.000	0.006	0.0	0.4
Compotes and cooked fruit	0.000	0.001	0.000	0.007	0.0	0.6	0.000	0.001	0.000	0.007	0.0	0.7
Seasonings and sauces	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1
TOTAL	**0.016**	**0.150**	**0.060**	**0.264**	**100.0**	**100.0**	**0.005**	**0.139**	**0.011**	**0.230**	**100.0**	**100.0**

Food group	Diazinon mean (LB)	Diazinon mean (UB)	Diazinon P95 (LB)	Diazinon P95 (UB)	Diazinon contrib (LB)	Diazinon contrib (UB)	Dichlorvos mean (LB)	Dichlorvos mean (UB)	Dichlorvos P95 (LB)	Dichlorvos P95 (UB)	Dichlorvos contrib (LB)	Dichlorvos contrib (UB)
Bread and dried bread products	0.000	0.014	0.000	0.030	0.0	10.3	0.000	0.010	0.000	0.021	0.0	3.1
Breakfast cereals	0.000	0.000	0.000	0.012	0.0	0.2	0.000	0.000	0.000	0.008	0.0	0.0
Pasta	0.000	0.003	0.000	0.009	0.0	2.1	0.000	0.002	0.000	0.007	0.0	0.6
Rice and wheat products	0.000	0.002	0.000	0.009	0.0	1.3	0.000	0.001	0.000	0.007	0.0	0.4
Croissant-like pastries	0.000	0.001	0.000	0.006	0.0	0.4	0.000	0.000	0.000	0.004	0.0	0.1
Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.002	0.0	0.2	0.000	0.000	0.000	0.004	0.0	0.1
Pastries and cakes	0.000	0.002	0.000	0.011	0.0	1.8	0.000	0.002	0.000	0.008	0.0	0.5
Milk	0.000	0.002	0.000	0.010	0.0	1.3	0.000	0.002	0.000	0.010	0.0	0.5
Ultra-fresh dairy products	0.000	0.002	0.000	0.007	0.0	1.4	0.000	0.000	0.000	0.002	0.0	0.0
Cheese	0.000	0.001	0.000	0.004	0.0	1.1						
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.6						
Butter	0.000	0.001	0.000	0.002	0.0	0.4						
Meat	0.000	0.002	0.000	0.005	0.0	1.4						
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.7						
Offal	0.000	0.000	0.000	0.002	0.0	0.1						
Delicatessen meats	0.000	0.001	0.000	0.004	100.0	0.9						
Fish	0.000	0.000	0.000	0.001	0.0	0.2	0.000	0.000	0.000	0.001	0.0	0.1
Crustaceans and molluscs	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.0
Vegetables (excluding potatoes)	0.000	0.016	0.000	0.036	0.0	12.2	0.000	0.068	0.000	0.157	0.0	21.0
Potatoes and potato products	0.000	0.005	0.000	0.015	0.0	4.0	0.000	0.024	0.000	0.072	0.0	7.3
Pulses	0.000	0.001	0.000	0.005	0.0	0.5	0.000	0.003	0.000	0.026	0.0	0.9
Fruits	0.000	0.008	0.000	0.020	0.0	6.0	0.000	0.027	0.000	0.067	100.0	8.2
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.004	0.0	0.2	0.000	0.000	0.000	0.003	0.0	0.1
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0
Chocolate	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1
Sugars and sugar derivatives	0.000	0.002	0.000	0.007	0.0	1.1	0.000	0.001	0.000	0.006	0.0	0.4
Water	0.000	0.014	0.000	0.065	0.0	10.5	0.000	0.028	0.000	0.131	0.0	8.5
Soft drinks	0.000	0.003	0.000	0.024	0.0	2.3	0.000	0.006	0.000	0.048	0.0	1.9
Alcoholic beverages	0.000	0.013	0.000	0.049	0.0	9.6	0.000	0.026	0.000	0.098	0.0	8.0
Coffee	0.000	0.014	0.000	0.041	0.0	10.5	0.000	0.028	0.000	0.081	0.0	8.8
Other hot beverages	0.000	0.010	0.000	0.070	0.0	7.6	0.000	0.021	0.000	0.140	0.0	6.4
Pizzas, quiches and savoury pastries	0.000	0.000	0.000	0.005	0.0	0.3	0.000	0.002	0.000	0.032	0.0	0.6
Sandwiches and snacks	0.000	0.000	0.000	0.005	0.0	0.1	0.000	0.001	0.000	0.030	0.0	0.2
Soups and broths	0.000	0.009	0.000	0.036	0.0	6.9	0.000	0.056	0.000	0.214	0.0	17.3
Mixed dishes	0.000	0.002	0.000	0.012	0.0	1.5	0.000	0.012	0.000	0.072	0.0	3.7
Dairy-based desserts	0.000	0.001	0.000	0.007	0.0	0.6	0.000	0.002	0.000	0.033	0.0	0.5
Compotes and cooked fruit	0.000	0.002	0.000	0.016	0.0	1.6	0.000	0.002	0.000	0.012	0.0	0.5
Seasonings and sauces	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.000	0.009	0.0	0.3
TOTAL	**0.000**	**0.135**	**0.000**	**0.232**	**100.0**	**100.0**	**0.000**	**0.325**	**0.000**	**0.549**	**100.0**	**100.0**

Food group	Dimethoate mean (LB)	Dimethoate mean (UB)	Dimethoate P95 (LB)	Dimethoate P95 (UB)	Dimethoate contrib (LB)	Dimethoate contrib (UB)	Disulfoton mean (UB)	Disulfoton P95 (UB)	Disulfoton contrib (UB)	Ethion mean (LB)	Ethion mean (UB)	Ethion P95 (LB)
Bread and dried bread products	0.000	0.070	0.000	0.149	0.0	5.5				0.000	0.010	0.000
Breakfast cereals	0.000	0.001	0.000	0.058	0.0	0.1				0.000	0.000	0.000
Pasta	0.000	0.014	0.000	0.047	0.0	1.1				0.000	0.002	0.000
Rice and wheat products	0.000	0.009	0.000	0.046	0.0	0.7				0.000	0.001	0.000
Croissant-like pastries	0.000	0.003	0.000	0.031	0.0	0.2				0.000	0.000	0.000
Sweet and savoury biscuits and bars	0.000	0.002	0.000	0.013	0.0	0.1				0.000	0.000	0.000
Pastries and cakes	0.000	0.012	0.000	0.053	0.0	1.0				0.000	0.002	0.000
Milk	0.000	0.007	0.000	0.040	0.0	0.5				0.000	0.002	0.000
Ultra-fresh dairy products	0.000	0.006	0.000	0.024	0.0	0.5	0.012	0.047	6.8	0.000	0.002	0.000
Cheese	0.000	0.003	0.000	0.007	0.0	0.2				0.000	0.001	0.000
Eggs and egg products	0.000	0.002	0.000	0.006	0.0	0.1				0.000	0.000	0.000
Butter	0.000	0.001	0.000	0.003	0.0	0.1				0.000	0.000	0.000
Meat	0.000	0.003	0.000	0.009	0.0	0.3				0.000	0.001	0.000
Poultry and game	0.000	0.002	0.000	0.009	0.0	0.2				0.000	0.001	0.000
Offal	0.000	0.000	0.000	0.004	0.0	0.0				0.000	0.000	0.000
Delicatessen meats	0.000	0.002	0.000	0.007	0.0	0.2				0.000	0.001	0.000
Fish	0.000	0.001	0.000	0.005	0.0	0.1				0.000	0.000	0.000
Crustaceans and molluscs	0.000	0.000	0.000	0.004	0.0	0.0				0.000	0.000	0.000
Vegetables (excluding potatoes)	0.000	0.111	0.000	0.241	0.8	8.7	0.026	0.060	14.7	0.000	0.009	0.000
Potatoes and potato products	0.000	0.036	0.000	0.129	0.0	2.8				0.000	0.005	0.000
Pulses	0.000	0.003	0.000	0.023	0.0	0.2				0.000	0.001	0.000
Fruits	0.050	0.138	0.344	0.454	99.2	10.9	0.027	0.067	15.2	0.000	0.009	0.001
Dried fruits, nuts and seeds	0.000	0.001	0.000	0.018	0.0	0.1				0.000	0.000	0.000
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.006	0.0	0.0				0.000	0.000	0.000
Chocolate	0.000	0.002	0.000	0.021	0.0	0.1	0.000	0.003	0.1	0.000	0.000	0.000
Sugars and sugar derivatives	0.000	0.009	0.000	0.042	0.0	0.7	0.000	0.005	0.2	0.000	0.001	0.000
Water	0.000	0.192	0.000	0.915	0.0	15.1	0.028	0.131	15.9	0.000	0.014	0.000
Soft drinks	0.000	0.044	0.000	0.339	0.0	3.4	0.006	0.048	3.6	0.000	0.003	0.000
Alcoholic beverages	0.000	0.181	0.000	0.683	0.0	14.3	0.026	0.098	14.8	0.000	0.013	0.000
Coffee	0.000	0.199	0.000	0.570	0.0	15.7	0.028	0.081	16.3	0.000	0.014	0.000
Other hot beverages	0.000	0.145	0.000	0.982	0.0	11.4	0.021	0.140	11.9	0.000	0.010	0.000
Pizzas, quiches and savoury pastries	0.000	0.002	0.000	0.024	0.0	0.1	0.001	0.017	0.4	0.000	0.000	0.000
Sandwiches and snacks	0.000	0.000	0.000	0.023	0.0	0.0				0.000	0.000	0.000
Soups and broths	0.000	0.043	0.000	0.164	0.0	3.4				0.002	0.011	0.030
Mixed dishes	0.000	0.010	0.000	0.055	0.0	0.8	0.000	0.007	0.1	0.000	0.002	0.000
Dairy-based desserts	0.000	0.003	0.000	0.030	0.0	0.2				0.000	0.001	0.000
Compotes and cooked fruit	0.000	0.011	0.000	0.082	0.0	0.9				0.000	0.002	0.000
Seasonings and sauces	0.000	0.001	0.000	0.006	0.0	0.1				0.000	0.000	0.000
TOTAL	**0.050**	**1.269**	**0.344**	**2.465**	**100.0**	**100.0**	**0.174**	**0.346**	**100.0**	**0.002**	**0.119**	**0.017**

Food group	Ethion P95 (UB)	Ethion contrib (LB)	Ethion contrib (UB)	Fenitrothion mean (LB)	Fenitrothion mean (UB)	Fenitrothion P95 (UB)	Fenitrothion contrib (LB)	Fenitrothion contrib (UB)	Fenthion mean (UB)	Fenthion P95 (UB)	Fenthion contrib (UB)	Malathion mean (LB)	Malathion mean (UB)
Bread and dried bread products	0.021	0.0	8.4	0.000	0.010	0.021	0.0	6.9	0.010	0.021	4.0	0.000	0.006
Breakfast cereals	0.008	0.0	0.1	0.000	0.000	0.008	0.0	0.1	0.000	0.008	0.1	0.000	0.000
Pasta	0.007	0.0	1.7	0.000	0.002	0.007	0.0	1.4	0.002	0.007	0.8	0.000	0.001
Rice and wheat products	0.007	0.0	1.0	0.000	0.001	0.007	0.0	0.8	0.001	0.007	0.5	0.000	0.001
Croissant-like pastries	0.004	0.0	0.3	0.000	0.000	0.004	0.0	0.3	0.000	0.004	0.2	0.000	0.000
Sweet and savoury biscuits and bars	0.002	0.0	0.2	0.000	0.000	0.002	0.0	0.1	0.000	0.002	0.1	0.000	0.000
Pastries and cakes	0.008	0.0	1.5	0.000	0.002	0.008	0.0	1.2	0.002	0.008	0.7	0.000	0.001
Milk	0.010	0.0	1.4	0.000	0.001	0.006	0.0	0.7	0.005	0.030	2.0	0.000	0.002
Ultra-fresh dairy products	0.006	0.0	1.3	0.000	0.001	0.004	0.0	0.8	0.007	0.027	3.0	0.000	0.002
Cheese	0.002	0.0	0.6	0.000	0.001	0.002	0.0	0.5	0.003	0.007	1.2	0.000	0.001
Eggs and egg products	0.001	0.0	0.3	0.000	0.001	0.003	0.0	0.6	0.002	0.009	1.0	0.000	0.001
Butter	0.001	0.0	0.2	0.000	0.000	0.001	0.0	0.2	0.001	0.003	0.5	0.000	0.001
Meat	0.002	0.0	0.8	0.000	0.001	0.002	0.0	0.7	0.005	0.012	1.9	0.000	0.002
Poultry and game	0.002	0.0	0.4	0.000	0.001	0.002	0.0	0.3	0.003	0.011	1.0	0.000	0.001
Offal	0.001	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.005	0.1	0.000	0.000
Delicatessen meats	0.002	0.1	0.5	0.000	0.001	0.002	0.0	0.4	0.003	0.009	1.2	0.000	0.001
Fish	0.001	0.0	0.2	0.000	0.000	0.001	0.0	0.1	0.001	0.004	0.3	0.000	0.000
Crustaceans and molluscs	0.001	0.0	0.1	0.000	0.000	0.001	0.0	0.0	0.000	0.003	0.1	0.000	0.000
Vegetables (excluding potatoes)	0.021	0.0	7.8	0.000	0.034	0.079	100.0	23.7	0.029	0.067	11.5	0.000	0.022
Potatoes and potato products	0.015	0.0	4.6	0.000	0.005	0.014	0.0	3.3	0.007	0.026	3.0	0.000	0.009
Pulses	0.005	0.0	0.5	0.000	0.001	0.005	0.0	0.4	0.001	0.005	0.2	0.000	0.001
Fruits	0.023	3.0	7.2	0.000	0.013	0.033	0.0	9.2	0.040	0.100	15.9	0.000	0.021
Dried fruits, nuts and seeds	0.003	0.0	0.2	0.000	0.000	0.003	0.0	0.1	0.000	0.003	0.1	0.000	0.000
Ice creams, sorbets and frozen desserts	0.001	0.0	0.0	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.000
Chocolate	0.001	0.0	0.1	0.000	0.000	0.001	0.0	0.1	0.000	0.003	0.1	0.000	0.000
Sugars and sugar derivatives	0.005	0.0	0.9	0.000	0.001	0.005	0.0	0.8	0.001	0.006	0.5	0.000	0.001
Water	0.065	0.0	11.9	0.000	0.014	0.065	0.0	9.8	0.028	0.131	11.1	0.000	0.028
Soft drinks	0.024	0.0	2.6	0.000	0.003	0.024	0.0	2.1	0.006	0.048	2.5	0.000	0.006
Alcoholic beverages	0.049	0.0	10.8	0.000	0.013	0.049	0.0	8.9	0.026	0.098	10.3	0.000	0.026
Coffee	0.041	0.0	11.9	0.000	0.014	0.041	0.0	9.8	0.028	0.081	11.4	0.000	0.028
Other hot beverages	0.070	0.0	8.7	0.000	0.010	0.070	0.0	7.1	0.021	0.140	8.3	0.000	0.021
Pizzas, quiches and savoury pastries	0.005	0.0	0.3	0.000	0.000	0.005	0.0	0.3	0.001	0.008	0.3	0.000	0.001
Sandwiches and snacks	0.005	0.0	0.1	0.000	0.000	0.005	0.0	0.1	0.000	0.005	0.0	0.000	0.000
Soups and broths	0.049	96.9	9.6	0.000	0.009	0.036	0.0	6.4	0.009	0.036	3.7	0.000	0.019
Mixed dishes	0.012	0.0	1.7	0.000	0.002	0.012	0.0	1.4	0.002	0.012	0.8	0.000	0.004
Dairy-based desserts	0.007	0.0	0.6	0.000	0.001	0.006	0.0	0.4	0.003	0.019	1.1	0.000	0.001
Compotes and cooked fruit	0.012	0.0	1.3	0.000	0.002	0.012	0.0	1.1	0.002	0.012	0.6	0.000	0.001
Seasonings and sauces	0.001	0.0	0.1	0.000	0.000	0.001	0.0	0.1	0.000	0.001	0.1	0.000	0.000
TOTAL	**0.223**	**100.0**	**100.0**	**0.000**	**0.146**	**0.236**	**100.0**	**100.0**	**0.251**	**0.426**	**100.0**	**0.000**	**0.209**

Food group	Malathion P95 (LB)	Malathion P95 (UB)	Malathion contrib (LB)	Malathion contrib (UB)	Methidathion mean (UB)	Methidathion P95 (UB)	Methidathion contrib (UB)	Mevinphos mean (UB)	Mevinphos P95 (UB)	Mevinphos contrib (UB)	Monocrotophos mean (UB)	Monocrotophos P95 (UB)	Monocrotophos contrib (UB)
Bread and dried bread products	0.000	0.013	0.0	2.9	0.010	0.021	3.9	0.010	0.021	5.1	0.010	0.021	3.0
Breakfast cereals	0.000	0.005	0.0	0.0	0.000	0.008	0.1	0.000	0.008	0.1	0.000	0.008	0.0
Pasta	0.000	0.004	0.0	0.6	0.002	0.007	0.8	0.002	0.007	1.0	0.002	0.007	0.6
Rice and wheat products	0.000	0.004	0.0	0.4	0.001	0.007	0.5	0.001	0.007	0.6	0.001	0.007	0.4
Croissant-like pastries	0.000	0.003	0.0	0.1	0.000	0.004	0.2	0.000	0.004	0.2	0.000	0.004	0.1
Sweet and savoury biscuits and bars	0.000	0.001	0.0	0.1	0.000	0.002	0.1	0.000	0.002	0.1	0.000	0.002	0.1
Pastries and cakes	0.000	0.005	0.0	0.5	0.002	0.008	0.7	0.002	0.008	0.9	0.002	0.008	0.5
Milk	0.000	0.010	0.0	0.8	0.002	0.010	0.7	0.002	0.010	0.9	0.002	0.010	0.5
Ultra-fresh dairy products	0.000	0.007	0.0	0.9	0.002	0.007	0.8	0.002	0.006	0.8	0.002	0.006	0.5
Cheese	0.000	0.004	0.0	0.7	0.001	0.004	0.6	0.001	0.002	0.4	0.001	0.002	0.2
Eggs and egg products	0.000	0.003	0.0	0.4	0.001	0.003	0.3	0.000	0.001	0.2	0.000	0.001	0.1
Butter	0.000	0.002	0.0	0.3	0.001	0.002	0.2	0.000	0.001	0.2	0.000	0.001	0.1
Meat	0.000	0.005	0.0	0.9	0.002	0.005	0.8	0.001	0.002	0.4	0.001	0.002	0.2
Poultry and game	0.000	0.005	0.0	0.5	0.001	0.005	0.4	0.001	0.002	0.3	0.001	0.002	0.2
Offal	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Delicatessen meats	0.000	0.003	0.0	0.6	0.001	0.003	0.5	0.001	0.002	0.3	0.001	0.002	0.2
Fish	0.000	0.001	0.0	0.1	0.000	0.001	0.1	0.000	0.001	0.1	0.000	0.001	0.1
Crustaceans and molluscs	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.048	0.0	10.3	0.017	0.041	6.9	0.028	0.064	14.5	0.029	0.064	8.6
Potatoes and potato products	0.000	0.024	0.0	4.2	0.020	0.054	7.7	0.004	0.012	2.3	0.008	0.023	2.4
Pulses	0.000	0.009	0.0	0.5	0.002	0.022	1.0	0.001	0.005	0.3	0.001	0.009	0.3
Fruits	0.000	0.054	0.0	10.2	0.013	0.033	5.3	0.013	0.033	6.9	0.027	0.067	8.0
Dried fruits, nuts and seeds	0.000	0.002	0.0	0.1	0.000	0.003	0.1	0.000	0.003	0.1	0.000	0.003	0.1
Ice creams, sorbets and frozen desserts	0.000	0.001	0.0	0.0	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.001	0.0
Chocolate	0.000	0.003	0.0	0.1	0.000	0.003	0.1	0.000	0.003	0.1	0.001	0.006	0.2
Sugars and sugar derivatives	0.000	0.005	0.0	0.4	0.001	0.006	0.5	0.001	0.006	0.7	0.002	0.009	0.5
Water	0.000	0.131	0.0	13.3	0.028	0.131	11.0	0.028	0.131	14.3	0.055	0.261	16.4
Soft drinks	0.000	0.048	0.0	3.0	0.006	0.048	2.5	0.006	0.048	3.2	0.012	0.097	3.7
Alcoholic beverages	0.000	0.098	0.0	12.4	0.026	0.098	10.2	0.026	0.098	13.3	0.052	0.195	15.5
Coffee	0.000	0.081	0.0	13.6	0.028	0.081	11.2	0.028	0.081	14.6	0.057	0.163	17.1
Other hot beverages	0.000	0.140	0.0	9.9	0.021	0.140	8.2	0.021	0.140	10.7	0.041	0.281	12.4
Pizzas, quiches and savoury pastries	0.000	0.011	0.0	0.4	0.002	0.026	0.7	0.000	0.005	0.2	0.001	0.011	0.2
Sandwiches and snacks	0.000	0.010	0.0	0.1	0.001	0.025	0.2	0.000	0.005	0.1	0.000	0.010	0.1
Soups and broths	0.000	0.071	0.0	8.9	0.047	0.179	18.5	0.009	0.036	4.8	0.019	0.071	5.6
Mixed dishes	0.001	0.024	100.0	1.9	0.010	0.060	3.9	0.002	0.012	1.0	0.004	0.024	1.2
Dairy-based desserts	0.000	0.013	0.0	0.5	0.002	0.022	0.6	0.001	0.007	0.4	0.001	0.013	0.3
Compotes and cooked fruit	0.000	0.007	0.0	0.4	0.002	0.012	0.6	0.002	0.012	0.8	0.002	0.012	0.5
Seasonings and sauces	0.000	0.003	0.0	0.1	0.001	0.007	0.3	0.000	0.001	0.1	0.000	0.003	0.1
TOTAL	**0.000**	**0.376**	**100.0**	**100.0**	**0.253**	**0.447**	**100.0**	**0.194**	**0.362**	**100.0**	**0.333**	**0.677**	**100.0**

Food group	Naled mean (UB)	Naled P95 (UB)	Naled contrib (UB)	Oxydemeton methyl mean (UB)	Oxydemeton methyl P95 (UB)	Oxydemeton methyl contrib (UB)	Parathion mean (UB)	Parathion P95 (UB)	Parathion contrib (UB)	Phorate mean (UB)	Phorate P95 (UB)	Phorate contrib (UB)	Phosalone mean (LB)	Phosalone mean (UB)
Bread and dried bread products							0.040	0.085	11.3	0.200	0.426	27.3	0.000	0.006
Breakfast cereals							0.001	0.033	0.2	0.003	0.167	0.4	0.000	0.000
Pasta							0.008	0.027	2.3	0.040	0.133	5.5	0.000	0.001
Rice and wheat products							0.005	0.026	1.4	0.025	0.131	3.4	0.000	0.001
Croissant-like pastries							0.002	0.018	0.4	0.008	0.088	1.0	0.000	0.000
Sweet and savoury biscuits and bars				0.000	0.001	0.0	0.001	0.006	0.2	0.004	0.032	0.5	0.000	0.000
Pastries and cakes							0.007	0.030	2.0	0.035	0.151	4.8	0.000	0.001
Milk				0.004	0.022	7.3	0.003	0.017	0.8	0.005	0.029	0.7	0.000	0.002
Ultra-fresh dairy products				0.003	0.013	6.7	0.008	0.027	2.2	0.007	0.024	1.0	0.000	0.002
Cheese				0.002	0.004	3.1	0.009	0.023	2.6	0.008	0.019	1.1	0.000	0.001
Eggs and egg products				0.001	0.003	1.7	0.005	0.018	1.5	0.005	0.018	0.7	0.000	0.001
Butter				0.001	0.002	1.2	0.004	0.011	1.0	0.003	0.009	0.4	0.000	0.001
Meat				0.002	0.005	3.5	0.012	0.030	3.4	0.012	0.030	1.6	0.000	0.002
Poultry and game				0.001	0.005	2.1	0.006	0.028	1.8	0.006	0.028	0.9	0.000	0.001
Offal				0.000	0.002	0.2	0.001	0.012	0.2	0.001	0.012	0.1	0.000	0.000
Delicatessen meats				0.001	0.004	2.6	0.008	0.022	2.1	0.007	0.021	1.0	0.000	0.001
Fish				0.001	0.003	1.2	0.000	0.002	0.1	0.001	0.004	0.1	0.000	0.000
Crustaceans and molluscs				0.000	0.002	0.4	0.000	0.002	0.0	0.000	0.003	0.0	0.000	0.000
Vegetables (excluding potatoes)	0.026	0.060	97.1	0.001	0.010	1.8	0.062	0.135	17.5	0.055	0.145	7.6	0.000	0.034
Potatoes and potato products				0.008	0.023	15.6	0.010	0.027	2.7				0.000	0.009
Pulses				0.001	0.009	1.8	0.001	0.010	0.4	0.003	0.148	0.4	0.000	0.001
Fruits							0.014	0.033	3.9	0.028	0.074	3.8	0.007	0.031
Dried fruits, nuts and seeds							0.001	0.010	0.2	0.004	0.052	0.5	0.000	0.000
Ice creams, sorbets and frozen desserts							0.000	0.003	0.0	0.000	0.017	0.0	0.000	0.000
Chocolate							0.000	0.003	0.1	0.001	0.006	0.1	0.000	0.000
Sugars and sugar derivatives							0.004	0.019	1.2	0.020	0.096	2.7	0.000	0.001
Water	0.001	0.002	2.5	0.001	0.002	1.3	0.028	0.131	7.9	0.055	0.261	7.5	0.000	0.028
Soft drinks							0.006	0.048	1.8	0.013	0.097	1.7	0.000	0.006
Alcoholic beverages							0.026	0.098	7.3	0.052	0.195	7.1	0.000	0.026
Coffee							0.028	0.081	8.1	0.057	0.163	7.8	0.000	0.028
Other hot beverages							0.021	0.140	5.9	0.041	0.281	5.7	0.000	0.021
Pizzas, quiches and savoury pastries				0.001	0.011	1.6	0.001	0.011	0.2	0.000	0.005	0.0	0.000	0.001
Sandwiches and snacks				0.000	0.010	0.4	0.000	0.010	0.1				0.000	0.000
Soups and broths				0.019	0.071	36.3	0.019	0.071	5.3				0.000	0.019
Mixed dishes				0.004	0.024	7.8	0.004	0.024	1.1	0.000	0.002	0.0	0.000	0.004
Dairy-based desserts				0.001	0.016	2.8	0.003	0.020	0.7	0.002	0.021	0.3	0.000	0.001
Compotes and cooked fruit							0.006	0.047	1.8	0.031	0.234	4.2	0.000	0.001
Seasonings and sauces				0.000	0.003	0.6	0.000	0.003	0.1	0.000	0.003	0.0	0.000	0.000
TOTAL	**0.026**	**0.061**	**100.0**	**0.052**	**0.107**	**100.0**	**0.352**	**0.563**	**100.0**	**0.731**	**1.274**	**100.0**	**0.007**	**0.232**

Food group	Phosalone P95 (LB)	Phosalone P95 (UB)	Phosalone contrib (LB)	Phosalone contrib (UB)	Phosmet mean (LB)	Phosmet mean (UB)	Phosmet P95 (LB)	Phosmet P95 (UB)	Phosmet contrib (LB)	Phosmet contrib (UB)	Phosphamidon mean (UB)	Phosphamidon P95 (UB)	Phosphamidon contrib (UB)
Bread and dried bread products	0.000	0.013	0.0	2.6	0.000	0.010	0.000	0.021	0.0	4.6	0.014	0.030	7.0
Breakfast cereals	0.000	0.005	0.0	0.0	0.000	0.000	0.000	0.008	0.0	0.1	0.000	0.012	0.1
Pasta	0.000	0.004	0.0	0.5	0.000	0.002	0.000	0.007	0.0	0.9	0.003	0.009	1.4
Rice and wheat products	0.000	0.004	0.0	0.3	0.000	0.001	0.000	0.007	0.0	0.6	0.002	0.009	0.9
Croissant-like pastries	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.004	0.0	0.2	0.001	0.006	0.3
Sweet and savoury biscuits and bars	0.000	0.001	0.0	0.1	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.002	0.1
Pastries and cakes	0.000	0.005	0.0	0.5	0.000	0.002	0.000	0.008	0.0	0.8	0.002	0.011	1.2
Milk	0.000	0.010	0.0	0.7	0.000	0.003	0.000	0.020	0.0	1.6	0.002	0.010	0.9
Ultra-fresh dairy products	0.000	0.007	0.0	0.8	0.000	0.004	0.000	0.014	0.0	1.8	0.002	0.006	0.8
Cheese	0.000	0.004	0.0	0.6	0.000	0.003	0.000	0.007	0.0	1.4	0.001	0.002	0.4
Eggs and egg products	0.000	0.003	0.0	0.4	0.000	0.002	0.000	0.006	0.0	0.7	0.000	0.001	0.2
Butter	0.000	0.002	0.0	0.3	0.000	0.001	0.000	0.003	0.0	0.5	0.000	0.001	0.1
Meat	0.000	0.005	0.0	0.8	0.000	0.004	0.000	0.010	0.0	1.8	0.001	0.002	0.4
Poultry and game	0.000	0.005	0.0	0.4	0.000	0.002	0.000	0.009	0.0	0.9	0.001	0.002	0.3
Offal	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.004	0.0	0.1	0.000	0.001	0.0
Delicatessen meats	0.000	0.004	0.0	0.5	0.000	0.002	0.000	0.007	0.0	1.1	0.001	0.002	0.3
Fish	0.000	0.001	0.0	0.1	0.000	0.001	0.000	0.003	0.0	0.3	0.000	0.001	0.1
Crustaceans and molluscs	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.000	0.079	0.0	14.7	0.000	0.010	0.000	0.022	0.0	4.5	0.029	0.064	14.4
Potatoes and potato products	0.000	0.027	0.0	3.9	0.000	0.005	0.000	0.015	0.0	2.5			
Pulses	0.000	0.009	0.0	0.4	0.000	0.001	0.000	0.009	0.0	0.5	0.000	0.010	0.1
Fruits	0.038	0.079	100.0	13.3	0.006	0.030	0.029	0.077	100.0	13.6	0.027	0.067	13.4
Dried fruits, nuts and seeds	0.000	0.002	0.0	0.0	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.004	0.1
Ice creams, sorbets and frozen desserts	0.000	0.001	0.0	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0
Chocolate	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.003	0.0	0.1	0.000	0.003	0.1
Sugars and sugar derivatives	0.000	0.005	0.0	0.4	0.000	0.001	0.000	0.006	0.0	0.6	0.002	0.008	0.8
Water	0.000	0.131	0.0	12.0	0.000	0.028	0.000	0.131	0.0	12.7	0.028	0.131	14.0
Soft drinks	0.000	0.048	0.0	2.7	0.000	0.006	0.000	0.048	0.0	2.9	0.006	0.048	3.1
Alcoholic beverages	0.000	0.098	0.0	11.2	0.000	0.026	0.000	0.098	0.0	11.9	0.026	0.098	13.0
Coffee	0.000	0.081	0.0	12.3	0.000	0.028	0.000	0.081	0.0	13.1	0.028	0.081	14.3
Other hot beverages	0.000	0.140	0.0	8.9	0.000	0.021	0.000	0.140	0.0	9.5	0.021	0.140	10.4
Pizzas, quiches and savoury pastries	0.000	0.011	0.0	0.3	0.000	0.000	0.000	0.005	0.0	0.2	0.000	0.002	0.0
Sandwiches and snacks	0.000	0.010	0.0	0.1	0.000	0.000	0.000	0.005	0.0	0.0			
Soups and broths	0.000	0.071	0.0	8.1	0.000	0.017	0.000	0.062	0.0	7.8			
Mixed dishes	0.000	0.024	0.0	1.7	0.000	0.002	0.000	0.015	0.0	1.0	0.000	0.001	0.0
Dairy-based desserts	0.000	0.013	0.0	0.4	0.000	0.001	0.000	0.010	0.0	0.6	0.000	0.003	0.2
Compotes and cooked fruit	0.000	0.007	0.0	0.4	0.000	0.002	0.000	0.012	0.0	0.7	0.002	0.016	1.1
Seasonings and sauces	0.000	0.003	0.0	0.1	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.0
TOTAL	**0.034**	**0.390**	**100.0**	**100.0**	**0.006**	**0.217**	**0.028**	**0.398**	**100.0**	**100.0**	**0.198**	**0.366**	**100.0**

Food group	Pyrimiphos methyl mean (LB)	Pyrimiphos methyl mean (UB)	Pyrimiphos methyl P95 (LB)	Pyrimiphos methyl P95 (UB)	Pyrimiphos methyl contrib (LB)	Pyrimiphos methyl contrib (UB)	Quinalphos mean (UB)	Quinalphos P95 (UB)	Quinalphos contrib (UB)	Sulfotep mean (UB)	Sulfotep P95 (UB)	Sulfotep contrib (UB)	Thiometon mean (UB)	Thiometon P95 (UB)	Thiometon contrib (UB)
Bread and dried bread products	0.049	0.049	0.108	0.112	72.8	24.1	0.014	0.030	5.0						
Breakfast cereals	0.000	0.000	0.012	0.042	0.2	0.2	0.000	0.012	0.1						
Pasta	0.004	0.008	0.015	0.028	6.1	4.1	0.003	0.009	1.0						
Rice and wheat products	0.004	0.004	0.018	0.022	5.3	2.0	0.002	0.009	0.6						
Croissant-like pastries	0.002	0.002	0.026	0.031	3.1	1.1	0.001	0.006	0.2						
Sweet and savoury biscuits and bars	0.001	0.001	0.010	0.014	1.3	0.7	0.000	0.002	0.1						
Pastries and cakes	0.003	0.005	0.016	0.025	4.9	2.5	0.002	0.011	0.9						
Milk	0.000	0.003	0.000	0.020	0.0	1.7	0.003	0.020	1.2	0.017	0.102	15.2	0.002	0.010	1.5
Ultra-fresh dairy products	0.000	0.003	0.001	0.010	0.2	1.4	0.004	0.014	1.4	0.016	0.061	14.0	0.001	0.005	1.1
Cheese	0.000	0.001	0.000	0.002	0.0	0.4	0.003	0.007	1.1	0.008	0.019	6.6			
Eggs and egg products	0.000	0.001	0.000	0.003	0.0	0.4	0.002	0.006	0.6	0.002	0.007	1.8	0.000	0.001	0.4
Butter	0.000	0.000	0.000	0.001	0.0	0.1	0.001	0.003	0.4	0.003	0.009	2.6			
Meat	0.000	0.002	0.000	0.005	0.0	0.9	0.002	0.005	0.7	0.005	0.012	4.2	0.001	0.002	0.7
Poultry and game	0.000	0.001	0.000	0.005	0.0	0.5	0.001	0.005	0.4	0.003	0.011	2.2	0.001	0.002	0.4
Offal	0.000	0.000	0.000	0.002	0.0	0.0	0.000	0.002	0.0	0.000	0.005	0.2	0.000	0.001	0.0
Delicatessen meats	0.000	0.001	0.000	0.003	0.0	0.6	0.001	0.003	0.4	0.003	0.009	2.6	0.001	0.002	0.5
Fish	0.000	0.001	0.000	0.003	0.0	0.3	0.001	0.003	0.2	0.001	0.007	1.2	0.000	0.001	0.2
Crustaceans and molluscs	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.002	0.1	0.000	0.005	0.4	0.000	0.001	0.1
Vegetables (excluding potatoes)	0.000	0.034	0.000	0.079	0.0	16.4	0.030	0.068	10.9	0.026	0.060	22.4	0.026	0.060	22.6
Potatoes and potato products	0.000	0.005	0.000	0.015	0.0	2.6	0.018	0.049	6.3						
Pulses	0.000	0.001	0.001	0.004	0.1	0.3	0.002	0.018	0.7						
Fruits	0.000	0.008	0.000	0.020	0.0	3.9	0.027	0.067	9.5	0.027	0.067	23.2	0.027	0.067	23.4
Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0.0	0.1	0.000	0.004	0.1						
Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.0						
Chocolate	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.003	0.1				0.000	0.001	0.1
Sugars and sugar derivatives	0.000	0.001	0.000	0.003	0.0	0.4	0.002	0.008	0.6				0.000	0.003	0.1
Water	0.000	0.014	0.000	0.065	0.0	6.9	0.028	0.131	9.9	0.001	0.002	0.6	0.014	0.065	12.5
Soft drinks	0.000	0.003	0.000	0.024	0.0	1.5	0.006	0.048	2.2				0.003	0.024	2.7
Alcoholic beverages	0.000	0.013	0.000	0.049	0.0	6.3	0.026	0.098	9.2				0.013	0.049	11.4
Coffee	0.000	0.014	0.000	0.041	0.0	6.9	0.028	0.081	10.2				0.014	0.041	12.5
Other hot beverages	0.000	0.010	0.000	0.070	0.0	5.0	0.021	0.140	7.4				0.010	0.070	9.1
Pizzas, quiches and savoury pastries	0.001	0.001	0.011	0.013	1.0	0.5	0.001	0.021	0.5	0.001	0.017	0.6	0.000	0.002	0.1
Sandwiches and snacks	0.001	0.001	0.045	0.045	0.8	0.3	0.000	0.020	0.2						
Soups and broths	0.000	0.010	0.002	0.036	0.4	4.7	0.037	0.143	13.4						
Mixed dishes	0.002	0.004	0.018	0.021	2.9	1.7	0.008	0.048	2.9	0.000	0.007	0.1	0.000	0.001	0.0
Dairy-based desserts	0.001	0.002	0.014	0.019	0.8	0.8	0.002	0.025	0.7	0.002	0.017	2.1	0.000	0.003	0.4
Compotes and cooked fruit	0.000	0.001	0.000	0.007	0.0	0.5	0.002	0.016	0.8						
Seasonings and sauces	0.000	0.000	0.000	0.001	0.0	0.1	0.001	0.006	0.2	0.000	0.001	0.1	0.000	0.000	0.0
TOTAL	**0.068**	**0.205**	**0.137**	**0.339**	**100.0**	**100.0**	**0.280**	**0.463**	**100.0**	**0.115**	**0.218**	**100.0**	**0.114**	**0.209**	**100.0**

Table G77: Estimated exposure (mean and P95) in elderly people to persistent organic pollutants (µg/kg bw/day) and contribution of foods (%)

Food group	Chlordane mean (UB)	Chlordane P95 (UB)	Chlordane contrib (UB)	DDT mean (UB)	DDT P95 (UB)	DDT contrib (UB)	Dieldrin mean (UB)	Dieldrin P95 (UB)	Dieldrin contrib (UB)	Endrin mean (UB)	Endrin P95 (UB)	Endrin contrib (UB)	HCB mean (LB)	HCB mean (UB)	HCB P95 (LB)	HCB P95 (UB)	HCB contrib (LB)
Bread and dried bread products	0.012	0.026	14.6	0.020	0.043	6.7	0.016	0.035	5.7	0.010	0.021	8.8	0.000	0.006	0.000	0.013	0.0
Breakfast cereals	0.000	0.010	0.2	0.000	0.017	0.1	0.000	0.014	0.1	0.000	0.008	0.1	0.000	0.000	0.000	0.005	0.0
Pasta	0.002	0.008	2.9	0.004	0.013	1.3	0.003	0.011	1.1	0.002	0.007	1.8	0.000	0.001	0.000	0.004	0.0
Rice and wheat products	0.001	0.008	1.8	0.002	0.013	0.8	0.002	0.011	0.7	0.001	0.007	1.1	0.000	0.001	0.000	0.004	0.0
Croissant-like pastries	0.000	0.005	0.6	0.001	0.009	0.3	0.001	0.007	0.2	0.000	0.004	0.3	0.000	0.000	0.000	0.003	0.0
Sweet and savoury biscuits and bars	0.000	0.002	0.3	0.000	0.003	0.1	0.000	0.003	0.1	0.000	0.002	0.2	0.000	0.000	0.000	0.001	0.0
Pastries and cakes	0.002	0.009	2.6	0.004	0.015	1.2	0.003	0.012	1.0	0.002	0.008	1.5	0.000	0.001	0.000	0.005	0.0
Milk	0.007	0.040	8.3	0.007	0.042	2.4	0.003	0.016	1.0	0.001	0.006	0.9	0.000	0.001	0.000	0.006	0.0
Ultra-fresh dairy products	0.006	0.019	6.8	0.006	0.021	2.0	0.003	0.010	1.0	0.001	0.004	0.8	0.000	0.001	0.000	0.004	0.0
Cheese	0.001	0.004	1.8	0.002	0.005	0.6	0.002	0.004	0.5	0.000	0.001	0.4	0.000	0.000	0.000	0.001	0.0
Eggs and egg products	0.001	0.003	1.0	0.002	0.006	0.6	0.001	0.003	0.3	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0
Butter	0.001	0.002	0.7	0.001	0.002	0.2	0.001	0.002	0.2	0.000	0.001	0.2	0.000	0.000	0.000	0.001	0.0
Meat	0.002	0.005	2.3	0.002	0.006	0.8	0.002	0.005	0.7	0.001	0.001	0.5	0.000	0.001	0.000	0.002	0.0
Poultry and game	0.001	0.005	1.2	0.001	0.006	0.4	0.001	0.005	0.4	0.000	0.001	0.3	0.000	0.001	0.000	0.002	67.2
Offal	0.000	0.002	0.1	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.001	0.0
Delicatessen meats	0.001	0.003	1.5	0.002	0.004	0.5	0.001	0.004	0.4	0.000	0.001	0.3	0.000	0.001	0.000	0.002	32.8
Fish	0.001	0.005	1.3	0.001	0.006	0.4	0.000	0.002	0.2	0.000	0.001	0.1	0.000	0.000	0.000	0.001	0.0
Crustaceans and molluscs	0.000	0.004	0.5	0.000	0.004	0.1	0.000	0.002	0.1	0.000	0.001	0.0	0.000	0.000	0.000	0.001	0.0
Vegetables (excluding potatoes)	0.028	0.064	34.3	0.084	0.197	28.1	0.018	0.038	6.2	0.028	0.063	24.3	0.000	0.008	0.000	0.017	0.0
Potatoes and potato products							0.011	0.033	3.9				0.000	0.004	0.000	0.012	0.0
Pulses	0.000	0.009	0.2	0.000	0.015	0.1	0.001	0.011	0.5	0.000	0.007	0.1	0.000	0.001	0.000	0.004	0.0
Fruits	0.008	0.020	9.8	0.042	0.104	13.9	0.016	0.041	5.7	0.008	0.020	7.1	0.000	0.008	0.000	0.020	0.0
Dried fruits, nuts and seeds	0.000	0.003	0.3	0.000	0.005	0.1	0.000	0.004	0.1	0.000	0.003	0.2	0.000	0.000	0.000	0.002	0.0
Ice creams, sorbets and frozen desserts	0.000	0.001	0.0	0.000	0.002	0.0	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.001	0.0
Chocolate				0.000	0.003	0.1	0.000	0.004	0.1	0.000	0.001	0.1	0.000	0.000	0.000	0.001	0.0
Sugars and sugar derivatives	0.001	0.006	1.4	0.002	0.011	0.7	0.002	0.010	0.7	0.001	0.005	1.0	0.000	0.001	0.000	0.003	0.0
Water	0.001	0.002	0.8	0.028	0.131	9.3	0.041	0.199	14.4	0.014	0.065	12.4	0.000	0.014	0.000	0.065	0.0
Soft drinks	0.000	0.001	0.0	0.006	0.048	2.1	0.009	0.074	3.3	0.003	0.024	2.7	0.000	0.003	0.000	0.024	0.0
Alcoholic beverages				0.026	0.098	8.6	0.039	0.148	13.7	0.013	0.049	11.3	0.000	0.013	0.000	0.049	0.0
Coffee				0.028	0.081	9.5	0.043	0.124	15.1	0.014	0.041	12.5	0.000	0.014	0.000	0.041	0.0
Other hot beverages				0.021	0.140	6.9	0.032	0.214	11.0	0.010	0.070	9.1	0.000	0.010	0.000	0.070	0.0
Pizzas, quiches and savoury pastries	0.000	0.007	0.3	0.000	0.007	0.1	0.001	0.013	0.3	0.000	0.001	0.0	0.000	0.000	0.000	0.005	0.0
Sandwiches and snacks							0.000	0.012	0.1				0.000	0.000	0.000	0.005	0.0
Soups and broths							0.023	0.087	8.0				0.000	0.009	0.000	0.036	0.0
Mixed dishes	0.000	0.003	0.1	0.000	0.003	0.0	0.005	0.029	1.7	0.000	0.000	0.0	0.000	0.002	0.000	0.012	0.0
Dairy-based desserts	0.002	0.014	2.2	0.002	0.015	0.7	0.001	0.015	0.5	0.000	0.002	0.3	0.000	0.001	0.000	0.006	0.0
Compotes and cooked fruit	0.002	0.014	2.3	0.003	0.023	1.0	0.003	0.019	0.9	0.002	0.012	1.4	0.000	0.001	0.000	0.007	0.0
Seasonings and sauces	0.000	0.000	0.0	0.000	0.001	0.0	0.000	0.003	0.1	0.000	0.000	0.0	0.000	0.000	0.000	0.001	0.0
TOTAL	**0.082**	**0.137**	**100.0**	**0.299**	**0.506**	**100.0**	**0.287**	**0.579**	**100.0**	**0.114**	**0.204**	**100.0**	**0.000**	**0.105**	**0.000**	**0.198**	**100.0**

Food group	HCB contrib (UB)	HCH mean (UB)	HCH P95 (UB)	HCH contrib (UB)	Heptachlor mean (UB)	Heptachlor P95 (UB)	Heptachlor contrib (UB)	Lindane mean (LB)	Lindane mean (UB)	Lindane P95 (LB)	Lindane P95 (UB)	Lindane contrib (LB)	Lindane contrib (UB)	Toxaphene mean (UB)	Toxaphene P95 (UB)	Toxaphene contrib (UB)
Bread and dried bread products	5.7	0.018	0.038	8.4	0.024	0.051	8.8	0.000	0.040	0.000	0.085	0.0	22.4			
Breakfast cereals	0.1	0.000	0.015	0.1	0.000	0.020	0.1	0.000	0.001	0.000	0.033	0.0	0.3			
Pasta	1.1	0.004	0.012	1.7	0.005	0.016	1.8	0.000	0.008	0.000	0.027	0.0	4.5			
Rice and wheat products	0.7	0.002	0.012	1.0	0.003	0.016	1.1	0.000	0.005	0.000	0.026	0.0	2.8			
Croissant-like pastries	0.2	0.001	0.008	0.3	0.001	0.011	0.3	0.000	0.002	0.000	0.018	0.0	0.9			
Sweet and savoury biscuits and bars	0.1	0.000	0.003	0.2	0.000	0.004	0.2	0.000	0.001	0.000	0.006	0.0	0.4			
Pastries and cakes	1.0	0.003	0.013	1.5	0.004	0.018	1.5	0.000	0.007	0.000	0.030	0.0	4.0			
Milk	1.0	0.003	0.020	1.6	0.003	0.018	1.1	0.000	0.001	0.000	0.006	0.0	0.6	0.002	0.010	20.2
Ultra-fresh dairy products	0.9	0.003	0.012	1.5	0.003	0.011	1.0	0.000	0.001	0.000	0.004	0.0	0.5	0.002	0.006	18.7
Cheese	0.4	0.001	0.004	0.7	0.001	0.003	0.5	0.000	0.000	0.000	0.001	0.0	0.2	0.001	0.002	8.7
Eggs and egg products	0.4	0.001	0.003	0.4	0.001	0.003	0.3	0.000	0.001	0.000	0.003	1.6	0.5	0.000	0.001	4.8
Butter	0.2	0.001	0.002	0.3	0.001	0.002	0.2	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	3.5
Meat	0.9	0.002	0.005	0.9	0.002	0.004	0.6	0.000	0.001	0.000	0.002	1.5	0.5	0.001	0.002	11.4
Poultry and game	0.5	0.001	0.005	0.5	0.001	0.004	0.3	0.001	0.001	0.009	0.009	96.9	0.6	0.001	0.002	6.0
Offal	0.0	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	0.5
Delicatessen meats	0.6	0.001	0.003	0.6	0.001	0.003	0.4	0.000	0.001	0.000	0.002	0.0	0.3	0.001	0.002	7.1
Fish	0.2	0.001	0.003	0.3	0.001	0.002	0.2	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.001	3.3
Crustaceans and molluscs	0.1	0.000	0.002	0.1	0.000	0.002	0.1	0.000	0.000	0.000	0.001	0.0	0.0	0.000	0.001	1.1
Vegetables (excluding potatoes)	7.7	0.023	0.050	11.0	0.082	0.190	29.9	0.000	0.016	0.000	0.038	0.0	8.8			
Potatoes and potato products	4.2	0.018	0.049	8.4				0.000	0.005	0.000	0.015	0.0	3.1			
Pulses	0.5	0.000	0.013	0.1	0.000	0.018	0.1	0.000	0.001	0.000	0.009	0.0	0.6			
Fruits	7.6	0.024	0.060	11.5	0.024	0.060	8.8	0.000	0.008	0.000	0.021	0.0	4.6			
Dried fruits, nuts and seeds	0.1	0.000	0.005	0.2	0.000	0.006	0.2	0.000	0.001	0.000	0.010	0.0	0.4			
Ice creams, sorbets and frozen desserts	0.0	0.000	0.002	0.0	0.000	0.002	0.0	0.000	0.000	0.000	0.003	0.0	0.0			
Chocolate	0.1	0.000	0.003	0.1	0.000	0.003	0.1	0.000	0.000	0.000	0.001	0.0	0.1			
Sugars and sugar derivatives	0.7	0.002	0.010	0.9	0.003	0.012	1.0	0.000	0.004	0.000	0.019	0.0	2.2			
Water	13.5	0.025	0.115	11.7	0.027	0.131	10.0	0.000	0.014	0.000	0.065	0.0	8.0	0.001	0.002	7.9
Soft drinks	3.0	0.006	0.043	2.6	0.006	0.048	2.3	0.000	0.003	0.000	0.024	0.0	1.8			
Alcoholic beverages	12.3	0.023	0.086	10.9	0.026	0.098	9.4	0.000	0.013	0.000	0.049	0.0	7.3			
Coffee	13.5	0.025	0.072	12.0	0.028	0.081	10.4	0.000	0.014	0.000	0.041	0.0	8.0			
Other hot beverages	9.8	0.018	0.124	8.7	0.021	0.140	7.6	0.000	0.010	0.000	0.070	0.0	5.8			
Pizzas, quiches and savoury pastries	0.4	0.000	0.003	0.1	0.000	0.003	0.0	0.000	0.000	0.000	0.005	0.0	0.2	0.000	0.002	0.8
Sandwiches and snacks	0.1							0.000	0.000	0.000	0.005	0.0	0.1			
Soups and broths	8.9							0.000	0.009	0.000	0.036	0.0	5.3			
Mixed dishes	2.0	0.000	0.001	0.0	0.000	0.001	0.0	0.000	0.002	0.000	0.012	0.0	1.1	0.000	0.001	0.1
Dairy-based desserts	0.5	0.001	0.007	0.5	0.001	0.006	0.3	0.000	0.001	0.000	0.006	0.0	0.3	0.000	0.003	5.7
Compotes and cooked fruit	0.9	0.003	0.021	1.3	0.004	0.028	1.4	0.000	0.006	0.000	0.047	0.0	3.5			
Seasonings and sauces	0.1	0.000	0.000	0.0	0.000	0.001	0.0	0.000	0.000	0.000	0.001	0.0	0.1	0.000	0.000	0.2
TOTAL	**100.0**	**0.210**	**0.377**	**100.0**	**0.274**	**0.466**	**100.0**	**0.001**	**0.178**	**0.002**	**0.299**	**100.0**	**100.0**	**0.008**	**0.016**	**100.0**

Table G78: Estimated exposure (mean and P95) in elderly people to other pesticide residues (µg/kg bw/day) and contribution of foods (%)

Food group	Biphenyl mean (UB)	Biphenyl P95 (UB)	Biphenyl contrib (UB)	Deltamethrin mean (LB)	Deltamethrin mean (UB)	Deltamethrin P95 (UB)	Deltamethrin contrib (LB)	Deltamethrin contrib (UB)	Diquat mean (UB)	Diquat P95 (UB)	Diquat contrib (UB)	Ethoxyquin mean (LB)	Ethoxyquin mean (UB)	Ethoxyquin P95 (LB)	Ethoxyquin P95 (UB)
Bread and dried bread products				0.000	0.014	0.030	0.0	4.8				0.000	0.010	0.000	0.021
Breakfast cereals				0.000	0.000	0.012	0.0	0.1				0.000	0.000	0.000	0.008
Pasta				0.000	0.003	0.009	0.0	1.0				0.000	0.002	0.000	0.007
Rice and wheat products				0.000	0.002	0.009	0.0	0.6				0.000	0.001	0.000	0.007
Croissant-like pastries				0.000	0.001	0.006	0.0	0.2				0.000	0.000	0.000	0.004
Sweet and savoury biscuits and bars				0.000	0.000	0.004	0.0	0.1				0.000	0.000	0.000	0.002
Pastries and cakes				0.000	0.002	0.011	0.0	0.8				0.000	0.002	0.000	0.008
Milk				0.000	0.003	0.020	0.0	1.2	0.003	0.020	44.3	0.000	0.034	0.000	0.200
Ultra-fresh dairy products				0.000	0.003	0.012	0.0	1.1	0.002	0.009	31.3	0.000	0.000	0.000	0.048
Cheese				0.000	0.001	0.004	0.0	0.5							
Eggs and egg products				0.000	0.001	0.003	0.0	0.3							
Butter				0.000	0.001	0.002	0.0	0.2							
Meat				0.000	0.002	0.005	0.0	0.7							
Poultry and game				0.000	0.001	0.005	0.0	0.3							
Offal				0.000	0.000	0.002	0.0	0.0							
Delicatessen meats				0.000	0.001	0.003	0.0	0.4							
Fish				0.000	0.001	0.003	0.0	0.2							
Crustaceans and molluscs				0.000	0.000	0.002	0.0	0.1							
Vegetables (excluding potatoes)				0.000	0.039	0.089	0.0	13.4				0.000	0.015	0.000	0.033
Potatoes and potato products				0.000	0.029	0.090	0.0	10.1							
Pulses				0.000	0.002	0.022	0.0	0.9				0.000	0.000	0.000	0.007
Fruits	0.013	0.033	19.4	0.000	0.008	0.020	0.0	2.8				0.008	0.008	0.111	0.111
Dried fruits, nuts and seeds				0.000	0.000	0.004	0.0	0.1				0.000	0.000	0.000	0.003
Ice creams, sorbets and frozen desserts				0.000	0.000	0.001	0.0	0.0				0.000	0.000	0.000	0.001
Chocolate	0.000	0.001	0.2	0.000	0.000	0.003	0.0	0.1							
Sugars and sugar derivatives	0.000	0.003	0.2	0.000	0.002	0.008	0.0	0.6				0.000	0.001	0.000	0.005
Water	0.014	0.065	20.8	0.000	0.028	0.131	0.0	9.6	0.001	0.002	8.7	0.000	0.001	0.000	0.002
Soft drinks	0.003	0.024	4.5	0.000	0.006	0.048	0.0	2.1				0.000	0.000	0.000	0.001
Alcoholic beverages	0.013	0.049	18.9	0.000	0.026	0.098	0.0	8.9							
Coffee	0.014	0.041	20.8	0.000	0.028	0.081	0.0	9.8							
Other hot beverages	0.010	0.070	15.1	0.000	0.021	0.140	0.0	7.1							
Pizzas, quiches and savoury pastries				0.000	0.002	0.026	0.0	0.6	0.000	0.003	1.7				
Sandwiches and snacks				0.000	0.001	0.025	0.0	0.2							
Soups and broths				0.000	0.047	0.179	0.0	16.1							
Mixed dishes				0.000	0.010	0.060	0.0	3.3	0.000	0.001	0.3				
Dairy-based desserts				0.000	0.002	0.032	0.0	0.7	0.001	0.009	10.4				
Compotes and cooked fruit				0.000	0.002	0.016	0.0	0.7				0.000	0.002	0.002	0.020
Seasonings and sauces				0.000	0.001	0.007	0.0	0.2							
TOTAL	**0.068**	**0.148**	**100.0**	**0.000**	**0.290**	**0.505**	**100.0**	**100.0**	**0.008**	**0.023**	**100.0**	**0.008**	**0.077**	**0.045**	**0.212**

Food group	Ethoxyquin contrib (LB)	Ethoxyquin contrib (UB)	Fenpropimorph mean (UB)	Fenpropimorph P95 (UB)	Fenpropimorph contrib (UB)	Ofurace mean (UB)	Ofurace P95 (UB)	Ofurace contrib (UB)	Rotenone mean (UB)	Rotenone P95 (UB)	Rotenone contrib (UB)
Bread and dried bread products	0.0	12.9	0.010	0.021	15.8						
Breakfast cereals	0.0	0.2	0.000	0.008	0.2						
Pasta	0.0	2.6	0.002	0.007	3.2						
Rice and wheat products	0.0	1.6	0.001	0.007	2.0						
Croissant-like pastries	0.0	0.5	0.000	0.004	0.6						
Sweet and savoury biscuits and bars	0.0	0.2	0.000	0.002	0.3						
Pastries and cakes	0.0	2.3	0.002	0.008	2.8						
Milk	0.0	44.3	0.002	0.010	2.7	0.002	0.010	20.6	0.002	0.010	26.1
Ultra-fresh dairy products	0.0	0.4	0.001	0.005	1.9	0.002	0.006	19.0	0.001	0.005	18.5
Cheese						0.001	0.002	8.9			
Eggs and egg products						0.000	0.001	4.9	0.000	0.001	6.2
Butter						0.000	0.001	3.5			
Meat						0.001	0.002	10.0	0.001	0.002	12.7
Poultry and game						0.001	0.002	6.1	0.001	0.002	7.7
Offal						0.000	0.001	0.5	0.000	0.001	0.7
Delicatessen meats						0.001	0.002	7.2	0.001	0.002	9.2
Fish						0.000	0.001	3.3			
Crustaceans and molluscs						0.000	0.001	1.1			
Vegetables (excluding potatoes)	0.0	19.4	0.028	0.063	43.8						
Potatoes and potato products											
Pulses	0.0	0.2	0.000	0.007	0.2						
Fruits	97.9	10.4	0.013	0.033	21.1						
Dried fruits, nuts and seeds	0.0	0.2	0.000	0.003	0.3						
Ice creams, sorbets and frozen desserts	0.0	0.0	0.000	0.001	0.0						
Chocolate											
Sugars and sugar derivatives	0.0	1.2	0.001	0.005	1.5						
Water	0.0	0.9	0.001	0.002	1.1	0.001	0.002	8.0	0.001	0.002	10.2
Soft drinks	0.0	0.0	0.000	0.001	0.0						
Alcoholic beverages											
Coffee											
Other hot beverages											
Pizzas, quiches and savoury pastries			0.000	0.002	0.1	0.000	0.002	0.8	0.000	0.002	1.0
Sandwiches and snacks											
Soups and broths											
Mixed dishes			0.000	0.001	0.0	0.000	0.001	0.1	0.000	0.001	0.2
Dairy-based desserts						0.000	0.003	5.8	0.000	0.003	7.4
Compotes and cooked fruit	2.1	2.7	0.002	0.012	2.4						
Seasonings and sauces						0.000	0.000	0.2	0.000	0.000	0.2
TOTAL	**100.0**	**100.0**	**0.063**	**0.112**	**100.0**	**0.008**	**0.016**	**100.0**	**0.007**	**0.014**	**100.0**

Table H3: Estimated exposure (mean and P95) in women of childbearing age to additives (mg/kg bw/d) and contribution of food groups to total exposure (%)

Substance	Food group	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Annatto	Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.001	0	1
	Cheese	0.000	0.000	0.001	0.001	100	10
	Butter	0.000	0.000	0.000	0.001	0	1
	Margarine	0.000	0.000	0.000	0.002	0	11
	Potatoes and potato products	0.000	0.000	0.000	0.002	0	19
	Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0	3
	Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.005	0	31
	Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0	0
	Sandwiches and snacks	0.000	0.000	0.000	0.003	0	23
	Mixed dishes	0.000	0.000	0.000	0.000	0	1
	Total	**0.000**	**0.002**	**0.001**	**0.006**	**100**	**100**
Tartaric acid	Sweet and savoury biscuits and bars	0.005	0.008	0.033	0.040	14	9
	Pastries and cakes	0.015	0.024	0.118	0.130	38	28
	Vegetables (excluding potatoes)	0.005	0.011	0.026	0.033	12	13
	Pulses	0.001	0.002	0.021	0.022	3	2
	Fruits	0.000	0.001	0.000	0.065	0	2
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.002	0.007	0	0
	Chocolate	0.000	0.018	0.000	0.112	0	21
	Sugars and sugar derivatives	0.001	0.002	0.004	0.010	2	2
	Other hot beverages	0.000	0.005	0.000	0.179	0	6
	Mixed dishes	0.012	0.012	0.321	0.321	31	14
	Compotes and cooked fruit	0.000	0.001	0.000	0.034	0	2
	Total	**0.038**	**0.085**	**0.152**	**0.229**	**100**	**100**
Sulfites	Sweet and savoury biscuits and bars	0.000	0.001	0.001	0.004	0	1
	Pastries and cakes	0.000	0.002	0.000	0.006	0	2
	Meat	0.000	0.001	0.001	0.004	0	1
	Crustaceans and molluscs	0.001	0.001	0.013	0.013	1	1
	Vegetables (excluding potatoes)	0.000	0.001	0.000	0.002	0	1
	Potatoes and potato products	0.000	0.001	0.000	0.002	0	1
	Pulses	0.000	0.000	0.000	0.001	0	0
	Fruits	0.000	0.000	0.000	0.001	0	0
	Dried fruits, nuts and seeds	0.000	0.000	0.014	0.014	1	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.000	0	0
	Chocolate	0.000	0.000	0.000	0.001	0	0
	Sugars and sugar derivatives	0.039	0.039	0.160	0.161	44	42
	Non-alcoholic beverages	0.000	0.001	0.000	0.006	0	1
	Alcoholic beverages	0.047	0.047	0.400	0.400	53	49
	Mixed dishes	0.000	0.001	0.001	0.005	0	1
	Compotes and cooked fruit	0.000	0.000	0.000	0.001	0	0
	Total	**0.088**	**0.095**	**0.331**	**0.335**	**100**	**100**
Nitrites	Offal	0.000	0.000	0.000	0.001	0	1
	Delicatessen meats	0.001	0.001	0.002	0.004	61	49
	Vegetables (excluding potatoes)	0.000	0.000	0.000	0.001	0	0
	Sandwiches and snacks	0.000	0.000	0.001	0.003	16	17
	Mixed dishes	0.000	0.001	0.001	0.005	23	33
	Total	**0.001**	**0.003**	**0.002**	**0.002**	**100**	**100**

Table H4: Estimated exposure (mean and P95) in elderly people to additives (mg/kg bw/d) and contribution of food groups to total exposure (%)

Substance	Food group	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Annatto	Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.000	0	0
	Cheese	0.000	0.000	0.001	0.001	100	14
	Butter	0.000	0.000	0.000	0.001	0	0
	Margarine	0.000	0.001	0.000	0.003	0	33
	Potatoes and potato products	0.000	0.000	0.000	0.001	0	20
	Dried fruits, nuts and seeds	0.000	0.000	0.000	0.005	0	10
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.004	0	19
	Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0	0
	Sandwiches and snacks	0.000	0.000	0.000	0.002	0	3
	Mixed dishes	0.000	0.000	0.000	0.000	0	0
	Total	**0.000**	**0.002**	**0.001**	**0.005**	**100**	**100**
Tartaric acid	Croissant-like pastries	0.000	0.000	0.006	0.006	0	0
	Sweet and savoury biscuits and bars	0.001	0.002	0.011	0.013	4	3
	Pastries and cakes	0.010	0.017	0.106	0.119	36	32
	Vegetables (excluding potatoes)	0.005	0.012	0.024	0.035	16	22
	Pulses	0.002	0.002	0.019	0.022	6	4
	Fruits	0.000	0.001	0.000	0.039	0	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.001	0.003	0	0
	Chocolate	0.000	0.005	0.000	0.053	0	9
	Sugars and sugar derivatives	0.001	0.003	0.005	0.014	3	5
	Other hot beverages	0.000	0.000	0.000	0.066	0	1
	Mixed dishes	0.010	0.010	0.454	0.454	34	18
	Compotes and cooked fruit	0.000	0.002	0.000	0.045	0	4
	Total	**0.028**	**0.054**	**0.115**	**0.152**	**100**	**100**
Sulfites	Croissant-like pastries	0.000	0.000	0.000	0.001	0	0
	Sweet and savoury biscuits and bars	0.000	0.000	0.001	0.001	0	0
	Pastries and cakes	0.000	0.001	0.000	0.006	0	1
	Meat	0.000	0.001	0.000	0.003	0	0
	Crustaceans and molluscs	0.001	0.001	0.014	0.014	0	0
	Vegetables (excluding potatoes)	0.000	0.001	0.000	0.002	0	0
	Potatoes and potato products	0.000	0.001	0.000	0.003	0	0
	Pulses	0.000	0.000	0.000	0.001	0	0
	Fruits	0.000	0.000	0.000	0.001	0	0
	Dried fruits, nuts and seeds	0.001	0.001	0.034	0.034	1	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.000	0	0
	Chocolate	0.000	0.000	0.000	0.000	0	0
	Sugars and sugar derivatives	0.030	0.030	0.099	0.100	14	14
	Non-alcoholic beverages	0.000	0.000	0.000	0.003	0	0
	Alcoholic beverages	0.179	0.179	0.704	0.705	85	83
	Mixed dishes	0.000	0.000	0.001	0.004	0	0
	Compotes and cooked fruit	0.000	0.000	0.000	0.001	0	0
	Total	**0.211**	**0.216**	**0.701**	**0.704**	**100**	**100**
Nitrites	Offal	0.000	0.000	0.000	0.001	0	3
	Delicatessen meats	0.000	0.001	0.002	0.004	82	69
	Vegetables (excluding potatoes)	0.000	0.000	0.001	0.004	1	1
	Sandwiches and snacks	0.000	0.000	0.001	0.002	4	2
	Mixed dishes	0.000	0.000	0.001	0.005	13	25
	Total	**0.000**	**0.002**	**0.002**	**0.005**	**100**	**100**

Table H5: Estimated exposure (mean and P95) in children aged 3 to 6 years to additives (mg/kg bw/d) and contribution of food groups to total exposure (%)

Substance	Food group	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Annatto	Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.001	0	1
	Cheese	0.000	0.000	0.002	0.002	100	8
	Butter	0.000	0.000	0.000	0.001	0	0
	Margarine	0.000	0.001	0.000	0.005	0	13
	Potatoes and potato products	0.000	0.001	0.000	0.003	0	22
	Dried fruits, nuts and seeds	0.000	0.000	0.000	0.008	0	2
	Ice creams, sorbets and frozen desserts	0.000	0.002	0.000	0.014	0	42
	Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0	1
	Sandwiches and snacks	0.000	0.001	0.000	0.008	0	11
	Mixed dishes	0.000	0.000	0.000	0.001	0	1
	Total	**0.000**	**0.005**	**0.002**	**0.015**	**100**	**100**
Tartaric acid	Sweet and savoury biscuits and bars	0.040	0.054	0.237	0.247	40	20
	Pastries and cakes	0.026	0.056	0.075	0.175	26	21
	Vegetables (excluding potatoes)	0.009	0.025	0.036	0.071	8	9
	Pulses	0.003	0.004	0.060	0.071	2	1
	Fruits	0.000	0.003	0.000	0.105	0	1
	Ice creams, sorbets and frozen desserts	0.000	0.001	0.011	0.034	0	0
	Chocolate	0.000	0.068	0.000	0.288	0	25
	Sugars and sugar derivatives	0.001	0.004	0.006	0.021	1	1
	Other hot beverages	0.000	0.027	0.000	0.887	0	10
	Mixed dishes	0.022	0.022	0.614	0.614	22	8
	Compotes and cooked fruit	0.000	0.006	0.000	0.113	0	2
	Total	**0.101**	**0.270**	**0.352**	**0.759**	**100**	**100**
Sulfites	Sweet and savoury biscuits and bars	0.001	0.003	0.002	0.011	1	5
	Pastries and cakes	0.000	0.006	0.001	0.018	0	9
	Meat	0.000	0.003	0.001	0.009	1	4
	Crustaceans and molluscs	0.001	0.001	0.021	0.022	2	1
	Vegetables (excluding potatoes)	0.000	0.001	0.000	0.004	0	2
	Potatoes and potato products	0.000	0.002	0.001	0.006	1	3
	Pulses	0.000	0.000	0.000	0.002	0	0
	Fruits	0.000	0.000	0.000	0.002	0	0
	Dried fruits, nuts and seeds	0.001	0.001	0.060	0.060	1	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0	0
	Chocolate	0.000	0.000	0.000	0.002	0	0
	Sugars and sugar derivatives	0.041	0.042	0.148	0.149	92	63
	Non-alcoholic beverages	0.000	0.005	0.000	0.015	0	7
	Alcoholic beverages	0.001	0.001	0.060	0.060	1	1
	Mixed dishes	0.000	0.002	0.002	0.012	1	3
	Compotes and cooked fruit	0.000	0.000	0.000	0.002	0	0
	Total	**0.045**	**0.066**	**0.152**	**0.174**	**100**	**100**
Nitrites	Offal	0.000	0.000	0.000	0.001	0	0
	Delicatessen meats	0.001	0.003	0.005	0.009	62	51
	Sandwiches and snacks	0.000	0.000	0.003	0.006	7	8
	Mixed dishes	0.001	0.003	0.003	0.011	31	41
	Total	**0.002**	**0.006**	**0.006**	**0.015**	**100**	**100**

Table H6: Estimated exposure (mean and P95) in children aged 7 to 10 years to additives (mg/kg bw/d) and contribution of food groups to total exposure (%)

Substance	Food group	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Annatto	Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.001	0	1
	Cheese	0.000	0.000	0.002	0.002	100	9
	Butter	0.000	0.000	0.000	0.001	0	0
	Margarine	0.000	0.001	0.000	0.003	0	12
	Potatoes and potato products	0.000	0.001	0.000	0.003	0	23
	Dried fruits, nuts and seeds	0.000	0.000	0.000	0.004	0	2
	Ice creams, sorbets and frozen desserts	0.000	0.002	0.000	0.012	0	40
	Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0	0
	Sandwiches and snacks	0.000	0.000	0.000	0.004	0	10
	Mixed dishes	0.000	0.000	0.000	0.000	0	1
	Total	**0.000**	**0.004**	**0.001**	**0.012**	**100**	**100**
Tartaric acid	Sweet and savoury biscuits and bars	0.026	0.035	0.159	0.171	33	16
	Pastries and cakes	0.025	0.050	0.144	0.184	32	22
	Vegetables (excluding potatoes)	0.009	0.021	0.045	0.060	11	9
	Pulses	0.004	0.005	0.047	0.054	5	2
	Fruits	0.000	0.002	0.000	0.161	0	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.012	0.035	0	0
	Chocolate	0.000	0.068	0.000	0.254	0	30
	Sugars and sugar derivatives	0.001	0.003	0.005	0.016	1	1
	Other hot beverages	0.000	0.018	0.000	0.625	0	8
	Mixed dishes	0.015	0.015	0.556	0.556	18	6
	Compotes and cooked fruit	0.000	0.009	0.000	0.394	0	4
	Total	**0.079**	**0.226**	**0.265**	**0.583**	**100**	**100**
Sulfites	Sweet and savoury biscuits and bars	0.000	0.002	0.002	0.008	1	5
	Pastries and cakes	0.000	0.005	0.000	0.014	0	9
	Meat	0.000	0.002	0.001	0.007	1	5
	Crustaceans and molluscs	0.001	0.001	0.022	0.022	2	1
	Vegetables (excluding potatoes)	0.000	0.001	0.000	0.003	0	2
	Potatoes and potato products	0.000	0.002	0.001	0.006	1	3
	Pulses	0.000	0.000	0.000	0.002	0	0
	Fruits	0.000	0.000	0.000	0.003	0	0
	Dried fruits, nuts and seeds	0.001	0.001	0.026	0.026	2	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.002	0	0
	Chocolate	0.000	0.000	0.000	0.001	0	0
	Sugars and sugar derivatives	0.030	0.030	0.129	0.130	90	61
	Non-alcoholic beverages	0.000	0.003	0.000	0.010	0	6
	Alcoholic beverages	0.001	0.001	0.056	0.056	2	1
	Mixed dishes	0.000	0.002	0.002	0.010	1	4
	Compotes and cooked fruit	0.000	0.000	0.000	0.008	0	0
	Total	**0.033**	**0.050**	**0.128**	**0.146**	**100**	**100**
Nitrites	Offal	0.000	0.000	0.000	0.001	0	1
	Delicatessen meats	0.001	0.003	0.004	0.008	61	50
	Vegetables (excluding potatoes)	0.000	0.000	0.001	0.002	0	0
	Sandwiches and snacks	0.000	0.000	0.002	0.003	7	7
	Mixed dishes	0.001	0.002	0.003	0.008	32	42
	Total	**0.002**	**0.005**	**0.005**	**0.012**	**100**	**100**

Table H7: Estimated exposure (mean and P95) in children aged 11 to 14 years to additives (mg/kg bw/d) and contribution of food groups to total exposure (%)

Substance	Food group	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Annatto	Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.001	0	1
	Cheese	0.000	0.000	0.001	0.001	100	9
	Butter	0.000	0.000	0.000	0.001	0	0
	Margarine	0.000	0.000	0.000	0.002	0	8
	Potatoes and potato products	0.000	0.001	0.000	0.002	0	23
	Dried fruits, nuts and seeds	0.000	0.000	0.000	0.002	0	1
	Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.009	0	41
	Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0	0
	Sandwiches and snacks	0.000	0.000	0.000	0.004	0	15
	Mixed dishes	0.000	0.000	0.000	0.000	0	1
	Total	**0.000**	**0.003**	**0.001**	**0.009**	**100**	**100**
Tartaric acid	Sweet and savoury biscuits and bars	0.009	0.014	0.054	0.091	17	10
	Pastries and cakes	0.017	0.034	0.073	0.119	34	23
	Vegetables (excluding potatoes)	0.005	0.013	0.026	0.038	10	9
	Pulses	0.002	0.002	0.028	0.032	3	1
	Fruits	0.000	0.001	0.000	0.046	0	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.003	0.008	0	0
	Chocolate	0.000	0.048	0.000	0.171	0	32
	Sugars and sugar derivatives	0.000	0.002	0.005	0.015	1	1
	Other hot beverages	0.000	0.014	0.000	0.434	0	9
	Mixed dishes	0.018	0.018	0.349	0.349	35	12
	Compotes and cooked fruit	0.000	0.003	0.000	0.086	0	2
	Total	**0.051**	**0.150**	**0.198**	**0.415**	**100**	**100**
Sulfites	Sweet and savoury biscuits and bars	0.000	0.001	0.001	0.005	1	4
	Pastries and cakes	0.000	0.003	0.000	0.011	0	10
	Meat	0.000	0.002	0.001	0.004	1	5
	Crustaceans and molluscs	0.001	0.001	0.027	0.028	4	3
	Vegetables (excluding potatoes)	0.000	0.001	0.000	0.002	0	2
	Potatoes and potato products	0.000	0.001	0.001	0.004	1	4
	Pulses	0.000	0.000	0.000	0.001	0	0
	Fruits	0.000	0.000	0.000	0.001	0	0
	Dried fruits, nuts and seeds	0.000	0.000	0.011	0.011	1	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.001	0	0
	Chocolate	0.000	0.000	0.000	0.001	0	1
	Sugars and sugar derivatives	0.016	0.017	0.076	0.078	85	54
	Non-alcoholic beverages	0.000	0.003	0.000	0.008	0	8
	Alcoholic beverages	0.001	0.001	0.074	0.074	5	3
	Mixed dishes	0.000	0.001	0.002	0.008	1	5
	Compotes and cooked fruit	0.000	0.000	0.000	0.002	0	0
	Total	**0.019**	**0.031**	**0.073**	**0.094**	**100**	**100**
Nitrites	Offal	0.000	0.000	0.000	0.001	0	1
	Delicatessen meats	0.001	0.002	0.002	0.005	57	46
	Vegetables (excluding potatoes)	0.000	0.000	0.000	0.001	0	0
	Sandwiches and snacks	0.000	0.000	0.001	0.003	11	11
	Mixed dishes	0.000	0.002	0.002	0.006	32	42
	Total	**0.001**	**0.004**	**0.003**	**0.009**	**100**	**100**

Table H8: Estimated exposure (mean and P95) in children aged 15 to 17 years to additives (mg/kg bw/d) and contribution of food groups to total exposure (%)

Substance	Food group	Mean (LB)	Mean (UB)	P95 (LB)	P95 (UB)	Contrib (LB)	Contrib (UB)
Annatto	Sweet and savoury biscuits and bars	0.000	0.000	0.000	0.000	0	1
	Cheese	0.000	0.000	0.001	0.001	100	5
	Butter	0.000	0.000	0.000	0.001	0	0
	Margarine	0.000	0.000	0.000	0.002	0	7
	Potatoes and potato products	0.000	0.001	0.000	0.002	0	22
	Dried fruits, nuts and seeds	0.000	0.000	0.000	0.012	0	6
	Ice creams, sorbets and frozen desserts	0.000	0.001	0.000	0.006	0	28
	Sugars and sugar derivatives	0.000	0.000	0.000	0.000	0	0
	Sandwiches and snacks	0.000	0.001	0.000	0.004	0	30
	Mixed dishes	0.000	0.000	0.000	0.000	0	1
	Total	**0.000**	**0.003**	**0.001**	**0.007**	**100**	**100**
Tartaric acid	Sweet and savoury biscuits and bars	0.006	0.009	0.035	0.054	17	8
	Pastries and cakes	0.012	0.023	0.080	0.118	36	21
	Vegetables (excluding potatoes)	0.003	0.009	0.013	0.031	9	8
	Pulses	0.002	0.002	0.040	0.046	5	2
	Fruits	0.000	0.002	0.000	0.064	0	1
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.002	0.006	0	0
	Chocolate	0.000	0.038	0.000	0.138	0	35
	Sugars and sugar derivatives	0.000	0.001	0.002	0.008	1	1
	Other hot beverages	0.000	0.011	0.000	0.251	0	10
	Mixed dishes	0.011	0.011	0.188	0.188	33	10
	Compotes and cooked fruit	0.000	0.002	0.000	0.058	0	2
	Total	**0.034**	**0.107**	**0.149**	**0.256**	**100**	**100**
Sulfites	Sweet and savoury biscuits and bars	0.000	0.001	0.001	0.005	1	2
	Pastries and cakes	0.000	0.002	0.000	0.007	0	6
	Meat	0.000	0.001	0.001	0.004	1	4
	Crustaceans and molluscs	0.001	0.001	0.025	0.025	3	2
	Vegetables (excluding potatoes)	0.000	0.000	0.000	0.001	0	1
	Potatoes and potato products	0.000	0.001	0.001	0.004	1	3
	Pulses	0.000	0.000	0.000	0.001	0	0
	Fruits	0.000	0.000	0.000	0.001	0	0
	Dried fruits, nuts and seeds	0.001	0.001	0.083	0.083	4	3
	Ice creams, sorbets and frozen desserts	0.000	0.000	0.000	0.000	0	0
	Chocolate	0.000	0.000	0.000	0.001	0	0
	Sugars and sugar derivatives	0.018	0.018	0.081	0.082	70	53
	Non-alcoholic beverages	0.000	0.002	0.000	0.008	0	6
	Alcoholic beverages	0.006	0.006	0.307	0.307	21	16
	Mixed dishes	0.000	0.001	0.001	0.006	1	3
	Compotes and cooked fruit	0.000	0.000	0.000	0.001	0	0
	Total	**0.026**	**0.035**	**0.097**	**0.109**	**100**	**100**
Nitrites	Offal	0.000	0.000	0.000	0.001	0	1
	Delicatessen meats	0.000	0.001	0.002	0.004	48	40
	Vegetables (excluding potatoes)	0.000	0.000	0.001	0.004	1	0
	Sandwiches and snacks	0.000	0.001	0.001	0.003	26	22
	Mixed dishes	0.000	0.001	0.001	0.005	26	37
	Total	**0.001**	**0.003**	**0.003**	**0.008**	**100**	**100**

Table I2: Estimated exposure (mean and P95) in women of childbearing age (18-45 years) and elderly people (65 years and older) to acrylamide (ng/kg bw/day) and contribution of foods (%)

Food	Women of childbearing age			Elderly people		
	Mean	P95	Contrib	Mean	P95	Contrib
Bread and dried bread products	19.7	57.7	4.3	31.5	96.9	8.9
Breakfast cereals	1.0	13.2	0.2	0.4	17.5	0.1
Croissant-like pastries	3.5	20.4	0.8	1.5	22.5	0.4
Sweet and savoury biscuits and bars	61.0	306.3	13.4	13.9	110.7	3.9
of which salted potato crisps	*17.4*	*405.3*	*3.8*	*2.1*	*110.7*	*0.6*
of which other savoury biscuits	*25.2*	*145.9*	*5.5*	*7.6*	*110.7*	*2.1*
of which sweet biscuits	*18.4*	*309.4*	*4.0*	*4.3*	*57.0*	*1.2*
Pastries and cakes	13.8	41.7	3.0	10.0	45.7	2.8
Poultry and game	2.1	9.7	0.5	1.6	8.8	0.4
Fish	0.7	9.5	0.2	0.6	8.5	0.2
Sauteed potatoes or chips	199.9	748.4	43.9	170.1	859.8	48.2
Chocolate	6.7	37.1	1.5	2.7	35.6	0.8
Coffee/chicory	121.7	560.3	26.7	113.0	342.1	32.0
of which black coffee	*114.7*	*543.3*	*25.1*	*102.8*	*307.8*	*29.1*
of which soluble instant coffee	*7.0*	*565.2*	*1.5*	*10.2*	*578.5*	*2.9*
Other hot beverages	2.7	40.5	0.6	0.4	30.7	0.1
Pizzas, quiches and savoury pastries	14.7	73.6	3.2	4.8	57.4	1.4
Sandwiches and snacks	2.4	18.6	0.5	0.3	13.5	0.1
Mixed dishes	4.2	26.2	0.9	1.3	15.5	0.4
of which poultry Cordon Bleu	*2.3*	*24.2*	*0.5*	*0.2*	*13.4*	*0.1*
Dairy-based desserts	1.7	17.4	0.4	0.8	12.7	0.2
Compotes and cooked fruit	0.2	3.0	0.1	0.4	4.3	0.1
TOTAL	**455.9**	**1,139.0**	**100**	**353.1**	**902.3**	**100**

Table I3: Estimated exposure (mean and P95) in children to acrylamide (ng/kg bw/day) and contribution of foods (%)

Food	3-6 years			7-10 years			11-14 years			15-17 years		
	Mean	P95	Contrib	Mean	P95	Contrib	Mean	P95	Contrib	Mean	P95	Contrib
Bread and dried bread products	21.5	74.8	2.4	24.3	66.9	3.0	18.2	45.9	3.2	15.1	40.5	3.4
Breakfast cereals	8.3	39.9	0.9	6.7	30.7	0.8	4.6	24.5	0.8	3.0	18.0	0.7
Croissant-like pastries	14.6	51.0	1.6	9.8	41.0	1.2	7.8	38.9	1.4	5.8	29.5	1.3
Sweet and savoury biscuits and bars	193.9	583.8	21.7	159.4	585.0	19.8	95.1	416.5	16.6	59.7	296.0	13.2
of which salted potato crisps	*37.0*	*409.9*	*4.1*	*32.7*	*357.8*	*4.1*	*22.6*	*324.9*	*3.9*	*16.9*	*232.1*	*3.8*
of which other savoury biscuits	*30.6*	*332.2*	*3.4*	*37.0*	*578.6*	*4.6*	*25.5*	*389.3*	*4.4*	*11.0*	*245.3*	*2.4*
of which sweet biscuits	*126.3*	*378.2*	*14.1*	*89.8*	*288.2*	*11.2*	*47.0*	*212.8*	*8.2*	*31.7*	*209.9*	*7.0*
Pastries and cakes	38.1	134.7	4.3	31.2	104.4	3.9	20.7	77.9	3.6	13.1	46.7	2.9
Poultry and game	5.0	17.4	0.6	4.0	16.0	0.5	2.8	11.0	0.5	2.5	13.0	0.6
Fish	4.1	26.9	0.5	2.8	20.0	0.4	1.5	10.0	0.3	1.0	9.4	0.2
Sauteed potatoes or chips	517.4	1518.1	57.9	488.4	1576.2	60.7	362.5	1296.9	63.2	288.6	966.1	63.9
Chocolate	19.6	75.9	2.2	21.0	76.0	2.6	14.8	56.8	2.6	11.6	45.1	2.6
Coffee/chicory	0.9	81.5	0.1	1.0	447.5	0.1	2.3	222.7	0.4	12.5	204.6	2.8
of which black coffee	*0.9*	*81.5*	*0.1*	*1.0*	*447.5*	*0.1*	*2.3*	*222.7*	*0.4*	*12.1*	*204.6*	*2.7*
of which soluble instant coffee	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.3*	*165.5*	*0.1*
Other hot beverages	17.4	101.5	1.9	11.1	115.7	1.4	7.9	64.3	1.4	5.6	79.0	1.2
Pizzas, quiches and savoury pastries	25.5	147.6	2.9	23.3	113.6	2.9	21.2	110.3	3.7	20.2	103.4	4.5
Sandwiches and snacks	2.7	40.8	0.3	1.9	19.2	0.2	2.4	24.3	0.4	4.1	20.5	0.9
Mixed dishes	14.2	64.4	1.6	13.1	53.7	1.6	8.5	41.6	1.5	6.0	29.3	1.3
of which poultry Cordon Bleu	*9.1*	*67.9*	*1.0*	*7.5*	*51.8*	*0.9*	*4.5*	*36.6*	*0.8*	*3.2*	*23.2*	*0.7*
Dairy-based desserts	8.9	51.5	1.0	5.3	35.0	0.7	2.8	20.8	0.5	2.5	19.4	0.6
Compotes and cooked fruit	2.2	11.1	0.2	0.9	5.8	0.1	0.4	4.1	0.1	0.2	3.0	0.0
TOTAL	**894.3**	**1,864.3**	**100**	**804.0**	**1,996.4**	**100**	**573.5**	**1,512.9**	**100**	**451.5**	**1,173.8**	**100**

Table J5: Estimated exposure (mean and P95) in women of childbearing age (18-45 years) to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.156	0.264	10.7	0.058	0.105	16.4	0.061	0.109	14.1
Breakfast cereals	0.007	0.160	0.5	0.001	0.027	0.4	0.001	0.028	0.3
Croissant-like pastries	0.047	0.188	3.2	0.014	0.056	4.0	0.016	0.064	3.6
Sweet and savoury biscuits and bars	0.070	0.278	4.8	0.020	0.077	5.6	0.020	0.078	4.6
Pastries and cakes	0.070	0.210	4.8	0.023	0.063	6.6	0.025	0.066	5.8
Milk	0.011	0.053	0.7	0.004	0.024	1.2	0.008	0.036	1.8
Ultra-fresh dairy products	0.012	0.020	0.8	0.004	0.006	1.1	0.008	0.013	1.8
Cheese	0.021	0.034	1.4	0.006	0.013	1.7	0.009	0.018	2.0
Eggs and egg products	0.022	0.173	1.5	0.005	0.030	1.3	0.006	0.034	1.4
Butter	0.023	0.062	1.6	0.011	0.032	3.1	0.014	0.040	3.1
Oils	0.248	0.826	17.0	0.042	0.131	11.8	0.048	0.146	10.9
Margarine	0.067	0.480	4.6	0.013	0.097	3.8	0.014	0.102	3.2
Meat	0.035	0.062	2.4	0.010	0.017	2.8	0.018	0.030	4.1
Poultry and game	0.026	0.080	1.8	0.007	0.020	1.9	0.011	0.031	2.6
Offal	0.001	0.043	0.1	0.000	0.008	0.1	0.000	0.013	0.1
Delicatessen meats	0.083	0.139	5.7	0.014	0.023	3.8	0.018	0.028	4.1
Fish	0.037	0.111	2.5	0.009	0.031	2.6	0.013	0.040	2.9
Crustaceans and molluscs	0.169	1.802	11.6	0.030	0.366	8.4	0.030	0.367	6.9
Vegetables (excluding potatoes)	0.015	0.060	1.0	0.003	0.011	0.9	0.004	0.014	1.0
Potatoes and potato products	0.059	0.114	4.0	0.016	0.029	4.5	0.022	0.039	5.2
Soft drinks	0.000	0.030	0.0	0.000	0.009	0.0	0.000	0.020	0.0
Coffee	0.027	0.139	1.8	0.010	0.050	2.8	0.020	0.094	4.5
Other hot beverages	0.002	0.025	0.1	0.000	0.005	0.1	0.001	0.011	0.2
Pizzas, quiches and savoury pastries	0.107	0.529	7.3	0.016	0.078	4.5	0.019	0.093	4.4
Sandwiches and snacks	0.039	0.209	2.6	0.008	0.040	2.4	0.013	0.064	3.0
Mixed dishes	0.065	0.201	4.5	0.016	0.047	4.6	0.021	0.061	4.8
Dairy-based desserts	0.023	0.099	1.5	0.005	0.020	1.4	0.008	0.033	1.8
Seasonings and sauces	0.022	0.167	1.5	0.008	0.061	2.2	0.008	0.061	1.8
TOTAL	**1.463**	**2.942**	**100.0**	**0.352**	**0.660**	**100.0**	**0.435**	**0.768**	**100.0**

Table J6: Estimated exposure (mean and P95) in elderly people (65 years and older) to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.227	0.381	16.0	0.075	0.127	23.2	0.083	0.134	20.6
Breakfast cereals	0.004	0.172	0.3	0.001	0.028	0.2	0.001	0.029	0.2
Croissant-like pastries	0.018	0.185	1.2	0.005	0.055	1.6	0.006	0.058	1.5
Sweet and savoury biscuits and bars	0.014	0.103	1.0	0.004	0.033	1.2	0.004	0.034	1.0
Pastries and cakes	0.042	0.162	2.9	0.015	0.051	4.5	0.015	0.052	3.9
Milk	0.007	0.041	0.5	0.003	0.016	0.8	0.005	0.034	1.3
Ultra-fresh dairy products	0.009	0.022	0.6	0.003	0.007	0.9	0.006	0.014	1.4
Cheese	0.024	0.033	1.7	0.007	0.013	2.1	0.010	0.020	2.4
Eggs and egg products	0.023	0.113	1.6	0.006	0.024	1.7	0.007	0.029	1.9
Butter	0.019	0.048	1.4	0.011	0.032	3.3	0.014	0.041	3.4
Oils	0.274	0.786	19.3	0.045	0.137	13.8	0.051	0.153	12.7
Margarine	0.193	1.075	13.6	0.036	0.187	10.9	0.038	0.198	9.3
Meat	0.036	0.064	2.6	0.010	0.015	3.1	0.018	0.025	4.4
Poultry and game	0.024	0.078	1.7	0.005	0.019	1.6	0.009	0.034	2.3
Offal	0.002	0.034	0.1	0.001	0.013	0.2	0.001	0.016	0.2
Delicatessen meats	0.056	0.121	4.0	0.010	0.016	3.0	0.015	0.024	3.6
Fish	0.027	0.099	1.9	0.007	0.026	2.1	0.009	0.033	2.3
Crustaceans and molluscs	0.215	1.942	15.2	0.033	0.266	10.0	0.033	0.266	8.2
Vegetables (excluding potatoes)	0.017	0.056	1.2	0.003	0.011	1.1	0.005	0.013	1.2
Potatoes and potato products	0.052	0.108	3.7	0.015	0.027	4.5	0.022	0.041	5.5
Soft drinks	0.000	0.019	0.0	0.000	0.005	0.0	0.000	0.013	0.0
Coffee	0.026	0.088	1.8	0.009	0.036	2.8	0.020	0.054	4.9
Other hot beverages	0.000	0.016	0.0	0.000	0.003	0.0	0.000	0.007	0.0
Pizzas, quiches and savoury pastries	0.036	0.413	2.5	0.005	0.061	1.6	0.007	0.072	1.6
Sandwiches and snacks	0.003	0.132	0.2	0.001	0.031	0.2	0.001	0.050	0.2
Mixed dishes	0.044	0.307	3.1	0.010	0.066	3.1	0.013	0.086	3.3
Dairy-based desserts	0.019	0.085	1.3	0.005	0.028	1.5	0.008	0.054	2.0
Seasonings and sauces	0.009	0.129	0.6	0.003	0.047	1.0	0.003	0.047	0.8
TOTAL	**1.417**	**2.886**	**100.0**	**0.325**	**0.608**	**100.0**	**0.402**	**0.687**	**100.0**

Table J7: Estimated exposure (mean and P95) in children aged 3 to 6 years to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.164	0.290	4.7	0.056	0.109	6.7	0.061	0.111	5.8
Breakfast cereals	0.022	0.095	0.6	0.005	0.031	0.6	0.006	0.033	0.5
Croissant-like pastries	0.156	0.526	4.5	0.045	0.157	5.3	0.048	0.165	4.5
Sweet and savoury biscuits and bars	0.323	0.907	9.3	0.088	0.236	10.5	0.091	0.240	8.6
Pastries and cakes	0.214	0.801	6.1	0.069	0.245	8.2	0.077	0.255	7.4
Milk	0.076	0.213	2.2	0.030	0.079	3.6	0.056	0.154	5.4
Ultra-fresh dairy products	0.047	0.060	1.4	0.017	0.022	2.0	0.032	0.041	3.0
Cheese	0.052	0.076	1.5	0.015	0.025	1.8	0.021	0.036	2.0
Eggs and egg products	0.043	0.255	1.2	0.013	0.103	1.6	0.016	0.123	1.6
Butter	0.046	0.120	1.3	0.029	0.077	3.5	0.037	0.097	3.5
Oils	0.695	2.221	19.9	0.118	0.357	14.1	0.136	0.431	12.9
Margarine	0.179	1.960	5.1	0.036	0.341	4.3	0.038	0.361	3.6
Meat	0.087	0.142	2.5	0.024	0.041	2.9	0.043	0.073	4.1
Poultry and game	0.051	0.152	1.5	0.012	0.032	1.4	0.020	0.047	1.9
Offal	0.001	0.065	0.0	0.000	0.026	0.0	0.001	0.037	0.1
Delicatessen meats	0.252	0.510	7.2	0.036	0.067	4.4	0.048	0.085	4.5
Fish	0.116	0.341	3.3	0.029	0.086	3.4	0.037	0.101	3.5
Crustaceans and molluscs	0.134	2.323	3.8	0.024	0.392	2.8	0.024	0.393	2.3
Vegetables (excluding potatoes)	0.033	0.104	0.9	0.007	0.026	0.8	0.010	0.040	0.9
Potatoes and potato products	0.166	0.260	4.8	0.045	0.065	5.4	0.061	0.090	5.9
Soft drinks	0.001	0.051	0.0	0.000	0.014	0.0	0.000	0.034	0.0
Coffee	0.000	0.034	0.0	0.000	0.015	0.0	0.000	0.019	0.0
Other hot beverages	0.012	0.064	0.3	0.003	0.015	0.4	0.006	0.031	0.6
Pizzas, quiches and savoury pastries	0.170	1.060	4.9	0.025	0.155	3.0	0.030	0.185	2.9
Sandwiches and snacks	0.047	0.342	1.3	0.011	0.092	1.3	0.016	0.134	1.6
Mixed dishes	0.221	0.441	6.3	0.057	0.119	6.8	0.073	0.151	6.9
Dairy-based desserts	0.141	0.398	4.0	0.031	0.092	3.6	0.047	0.136	4.5
Seasonings and sauces	0.038	0.360	1.1	0.013	0.131	1.6	0.013	0.131	1.3
TOTAL	**3.485**	**6.189**	**100.0**	**0.839**	**1.352**	**100.0**	**1.047**	**1.657**	**100.0**

Table J8 : Estimated exposure (mean and P95) in children aged 7 to 10 years to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.197	0.325	7.8	0.071	0.127	11.4	0.075	0.130	9.8
Breakfast cereals	0.018	0.086	0.7	0.004	0.026	0.7	0.005	0.028	0.6
Croissant-like pastries	0.134	0.428	5.3	0.040	0.128	6.5	0.045	0.146	5.9
Sweet and savoury biscuits and bars	0.234	0.577	9.2	0.064	0.150	10.2	0.065	0.152	8.5
Pastries and cakes	0.180	0.402	7.1	0.058	0.123	9.3	0.066	0.129	8.5
Milk	0.042	0.118	1.6	0.017	0.052	2.7	0.030	0.080	3.9
Ultra-fresh dairy products	0.025	0.032	1.0	0.009	0.011	1.4	0.017	0.022	2.1
Cheese	0.038	0.061	1.5	0.011	0.022	1.8	0.016	0.031	2.0
Eggs and egg products	0.030	0.126	1.2	0.007	0.039	1.1	0.010	0.060	1.3
Butter	0.030	0.077	1.2	0.018	0.046	2.8	0.023	0.057	2.9
Oils	0.364	1.253	14.4	0.061	0.221	9.8	0.070	0.247	9.0
Margarine	0.141	1.032	5.6	0.029	0.180	4.6	0.030	0.190	3.9
Meat	0.071	0.106	2.8	0.019	0.027	3.1	0.036	0.052	4.6
Poultry and game	0.048	0.134	1.9	0.011	0.026	1.8	0.019	0.043	2.4
Offal	0.001	0.064	0.0	0.000	0.026	0.1	0.001	0.036	0.1
Delicatessen meats	0.184	0.376	7.3	0.028	0.046	4.5	0.036	0.056	4.7
Fish	0.081	0.266	3.2	0.020	0.066	3.3	0.026	0.074	3.3
Crustaceans and molluscs	0.087	2.590	3.4	0.015	0.527	2.5	0.015	0.528	2.0
Vegetables (excluding potatoes)	0.021	0.084	0.8	0.004	0.015	0.7	0.006	0.021	0.8
Potatoes and potato products	0.142	0.238	5.6	0.038	0.058	6.0	0.051	0.075	6.6
Soft drinks	0.001	0.093	0.0	0.000	0.026	0.0	0.000	0.062	0.1
Coffee	0.000	0.097	0.0	0.000	0.034	0.0	0.000	0.089	0.0
Other hot beverages	0.006	0.046	0.2	0.002	0.009	0.3	0.003	0.023	0.4
Pizzas, quiches and savoury pastries	0.171	0.801	6.7	0.025	0.118	4.0	0.030	0.140	3.9
Sandwiches and snacks	0.035	0.260	1.4	0.008	0.058	1.3	0.012	0.082	1.6
Mixed dishes	0.154	0.299	6.1	0.038	0.072	6.1	0.049	0.093	6.4
Dairy-based desserts	0.077	0.249	3.0	0.017	0.055	2.7	0.026	0.082	3.4
Seasonings and sauces	0.026	0.199	1.0	0.009	0.072	1.4	0.009	0.072	1.2
TOTAL	**2.536**	**4.536**	**100.0**	**0.623**	**1.067**	**100.0**	**0.772**	**1.262**	**100.0**

Table J9: Estimated exposure (mean and P95) in children aged 11 to 14 years to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.142	0.231	8.2	0.048	0.079	11.6	0.052	0.088	10.1
Breakfast cereals	0.020	0.175	1.1	0.004	0.038	1.0	0.004	0.039	0.9
Croissant-like pastries	0.091	0.358	5.2	0.026	0.107	6.4	0.028	0.124	5.5
Sweet and savoury biscuits and bars	0.126	0.394	7.3	0.034	0.102	8.2	0.035	0.104	6.8
Pastries and cakes	0.112	0.336	6.4	0.036	0.101	8.7	0.040	0.107	7.8
Milk	0.023	0.074	1.3	0.009	0.031	2.2	0.017	0.050	3.4
Ultra-fresh dairy products	0.012	0.019	0.7	0.004	0.007	1.0	0.008	0.013	1.5
Cheese	0.023	0.041	1.3	0.007	0.015	1.6	0.009	0.021	1.8
Eggs and egg products	0.017	0.076	1.0	0.004	0.021	1.0	0.006	0.027	1.1
Butter	0.021	0.058	1.2	0.012	0.033	2.8	0.015	0.042	2.9
Oils	0.221	0.896	12.7	0.037	0.144	8.9	0.042	0.161	8.2
Margarine	0.071	0.550	4.1	0.014	0.096	3.4	0.015	0.101	2.9
Meat	0.052	0.087	3.0	0.015	0.025	3.5	0.026	0.041	5.1
Poultry and game	0.035	0.103	2.0	0.008	0.021	1.9	0.014	0.035	2.7
Offal	0.001	0.031	0.1	0.000	0.012	0.1	0.001	0.019	0.1
Delicatessen meats	0.118	0.215	6.8	0.018	0.035	4.4	0.024	0.038	4.6
Fish	0.052	0.175	3.0	0.013	0.047	3.2	0.017	0.054	3.3
Crustaceans and molluscs	0.099	2.427	5.7	0.016	0.442	3.9	0.017	0.443	3.2
Vegetables (excluding potatoes)	0.013	0.054	0.7	0.003	0.011	0.7	0.004	0.014	0.8
Potatoes and potato products	0.101	0.179	5.8	0.027	0.043	6.5	0.037	0.056	7.2
Soft drinks	0.000	0.022	0.0	0.000	0.006	0.0	0.000	0.015	0.0
Coffee	0.000	0.054	0.0	0.000	0.015	0.0	0.000	0.031	0.1
Other hot beverages	0.005	0.038	0.3	0.001	0.008	0.3	0.002	0.017	0.5
Pizzas, quiches and savoury pastries	0.156	0.610	9.0	0.023	0.089	5.5	0.028	0.107	5.4
Sandwiches and snacks	0.038	0.304	2.2	0.008	0.066	1.9	0.013	0.100	2.5
Mixed dishes	0.121	0.290	7.0	0.030	0.074	7.2	0.038	0.091	7.4
Dairy-based desserts	0.045	0.159	2.6	0.010	0.039	2.4	0.016	0.064	3.1
Seasonings and sauces	0.021	0.170	1.2	0.007	0.062	1.7	0.007	0.062	1.4
TOTAL	**1.737**	**3.154**	**100.0**	**0.417**	**0.747**	**100.0**	**0.517**	**0.901**	**100.0**

Table J10: Estimated exposure (mean and P95) in children aged 15 and older to PAH4 (ng/kg bw/d) and PAH11 (ng TEQ/kg bw/d) and contribution of foods (%)

Food group	PAH4			PAH11					
	Mean	P95	Contrib	Mean (LB)	P95 (LB)	Contrib (LB)	Mean (UB)	P95 (UB)	Contrib (UB)
Bread and dried bread products	0.119	0.226	8.7	0.039	0.076	12.3	0.042	0.079	10.7
Breakfast cereals	0.010	0.069	0.7	0.002	0.017	0.7	0.002	0.017	0.6
Croissant-like pastries	0.069	0.235	5.0	0.020	0.066	6.2	0.021	0.082	5.4
Sweet and savoury biscuits and bars	0.085	0.381	6.2	0.023	0.099	7.3	0.024	0.101	6.0
Pastries and cakes	0.065	0.284	4.7	0.021	0.087	6.6	0.023	0.091	5.8
Milk	0.016	0.054	1.2	0.006	0.023	2.0	0.012	0.041	3.0
Ultra-fresh dairy products	0.009	0.020	0.7	0.003	0.007	1.0	0.006	0.011	1.5
Cheese	0.015	0.031	1.1	0.004	0.012	1.4	0.006	0.016	1.6
Eggs and egg products	0.012	0.053	0.9	0.004	0.030	1.2	0.005	0.033	1.2
Butter	0.013	0.038	0.9	0.007	0.023	2.3	0.009	0.029	2.3
Oils	0.165	0.629	12.1	0.028	0.109	8.9	0.033	0.128	8.3
Margarine	0.054	0.642	3.9	0.011	0.112	3.3	0.011	0.118	2.8
Meat	0.041	0.071	3.0	0.012	0.020	3.6	0.021	0.036	5.2
Poultry and game	0.027	0.079	2.0	0.007	0.022	2.1	0.011	0.032	2.8
Offal	0.001	0.044	0.0	0.000	0.018	0.1	0.000	0.025	0.1
Delicatessen meats	0.110	0.239	8.1	0.016	0.031	5.1	0.021	0.040	5.2
Fish	0.034	0.138	2.5	0.008	0.034	2.6	0.011	0.042	2.7
Crustaceans and molluscs	0.076	1.725	5.6	0.012	0.273	3.6	0.012	0.273	3.0
Vegetables (excluding potatoes)	0.011	0.052	0.8	0.002	0.012	0.8	0.004	0.017	0.9
Potatoes and potato products	0.083	0.158	6.1	0.021	0.038	6.7	0.029	0.044	7.4
Soft drinks	0.000	0.034	0.0	0.000	0.009	0.0	0.000	0.023	0.0
Coffee	0.002	0.044	0.2	0.001	0.016	0.3	0.002	0.036	0.5
Other hot beverages	0.003	0.044	0.2	0.001	0.009	0.3	0.002	0.020	0.4
Pizzas, quiches and savoury pastries	0.148	0.696	10.8	0.022	0.102	6.8	0.026	0.122	6.6
Sandwiches and snacks	0.058	0.203	4.2	0.013	0.045	3.9	0.020	0.071	5.0
Mixed dishes	0.087	0.212	6.4	0.021	0.050	6.6	0.027	0.060	6.7
Dairy-based desserts	0.029	0.124	2.1	0.006	0.026	1.9	0.010	0.046	2.5
Seasonings and sauces	0.020	0.122	1.5	0.007	0.044	2.2	0.007	0.044	1.8
TOTAL	**1.363**	**2.533**	**100.0**	**0.318**	**0.553**	**100.0**	**0.396**	**0.684**	**100.0**

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