

**Joint Decree of the Minister of Agriculture and Marine Fisheries and the Minister of Health No. 1643-16 of 23 Chaabane 1437 (30 May 2016) setting the maximum permissible levels of contaminants in primary products and foodstuffs.**

(Official Gazette No 6514 of 11/03/2016, page 1681)

**THE MINISTER OF AGRICULTURE AND MARINE FISHERIES,**

**THE MINISTER OF HEALTH,**

Pursuant to Decree No. 2-10-473 of 7 Chaoual 1432 (6 September 2011) taken for the application of some provisions of Law No. 28-07 on the safety of foodstuffs, in particular Article 53 thereof,

**DECIDE**

**Article 1.** - The maximum permissible levels of contaminants provided for in Article 53 (4) of Decree No. 2-10-473 referred to above, and the relevant alert thresholds are set out in the Annex to this Joint Order.

For all primary products and foodstuffs, these maximum levels and the alert thresholds shall apply to the edible part of the product concerned.

However, for the products intended for infants and young children consumption, the maximum levels laid down shall apply to the product as consumed.

**Article 2.** - For the purposes of this Joint Order, the following words shall mean:

- **Contaminant:** any substance that is not intentionally added to the primary product or foodstuff but that remains present in the product concerned as a residue:
  - of its production, including treatment applied to crops and livestock and as a result of veterinary medicine practice; or,
  - of its handling, processing, preparation, processing, packaging, wrapping, storage or transport; or,
  - as a result of an environmental contamination.

Foreign matters such as insect fragments and animal hair shall not be covered by this definition.

- **Maximum Level:** the concentration beyond which, for a given ratio of a primary product or a foodstuff with respect to the contaminant, the risk to human health is sufficient to consider the product as non-compliant;
- **Alert threshold:** the maximum concentration level of a contaminant beyond which an investigation to understand the modalities and kinetics of contamination of the product is conducted.

**Article 3.** - For primary products and foodstuffs that are dried, diluted, processed or composed of more than one ingredient, the maximum contaminant levels laid down in the abovementioned Annex shall take into account the following:

- the changes in contaminant concentration through drying or dilution;
- the changes in contaminant concentration through processing;
- the proportions of the ingredients in the product;
- the analysis quantification threshold.

In the case where no maximum level of contaminants has been set in the abovementioned Annex for the products referred to in the first subparagraph of this Article, the operators of establishments and enterprises of food sector responsible for those products at the time when those products are controlled must, on the basis of the abovementioned elements, justify the corresponding concentration, dilution or dehydration factors.

If the operator fails to provide these factors or if he provides inappropriate factors, these factors shall be determined by the Director General of the Moroccan Food Safety Agency (ONSSA) on the basis of the information available to ensure maximum protection of consumer health.

Primary products and foodstuffs not complying with the maximum levels laid down in the abovementioned Annex may not be used as ingredients or mixed with products whose maximum levels are compliant.

**Article 4.** - The primary products and foodstuffs listed in the abovementioned Annex, for which an alert threshold and its application deadline are set shall be monitored on a regular basis by the competent authorities of ONSSA up to the deadline for the application of the alert threshold set out in that Annex.

Any exceeding of the alert threshold established before its application deadline does not lead to the non-compliance of the product concerned but gives rise to an investigation aimed at understanding the modalities and kinetics of the contamination of the product. After its application deadline, the alert threshold can be converted to a maximum level.

The period granted up to the deadline for the alert threshold must allow the sectors concerned to adapt to the alert threshold and to put in place any measure to understand the causes and reduce the probability of exceeding the said threshold.

**Article 5.** - Where an alert threshold is established, the threshold shall apply under the conditions set out in Article 6 below until the date of its application set out in the Annex hereto. After that date, it is decided to modify this alert threshold, to maintain it, to delete it or to transform it into a maximum limit of the same level or a different level.

However, where the scientific evidence indicates the need to alter the alert threshold to ensure maximum consumer health protection, it may be amended before its application deadline.

**Article 6.** - When a maximum level or an alert threshold is set or modified, the setting of the new maximum limit or the new alert threshold must take into account the health data and may take into account the:

- socio-economic data of the production concerned, in order to avoid discarding too much of the production;
- technical data, in terms of the capacity of the sectors to implement good production and/or processing

practices;

- analytical data, in terms of technical feasibility, existence of methods and laboratories competent to implement them.

**Article 7.** - The maximum levels laid down in the Annex to this Joint Order shall apply from the date of its publication in the Official Gazette.

The alert thresholds referred to in the abovementioned Annex shall apply from the date of publication of this Joint Order to the Official Gazette until the corresponding application deadline mentioned in that Annex.

**Article 8.** - This Joint Order shall be published in the Official Gazette.

**Done in Rabat, on 23 Chaabane 1437 (30 May 2016)**

**The Minister of Agriculture and Marine Fisheries, Aziz AKHANNOUCH**

**The Minister of Health, El Houssaine LOUARDI**

## Annex

### the Joint Order of the Minister of Agriculture and Maritime Fisheries and the Minister of Health No. 1643-16 of 23 Shaabane 1437 (30 May 2016) setting the maximum limits of contaminants allowed in or on primary products and food products.

(Repealed and replaced by the annex to the joint decree n°2410-22 of 17 Safar 1444 (14 September 2022) BO n°7136 of 20/10/2022, page 1573)

#### I. Nitrates

Category	Primary product or food product	Maximum limits (mg <sub>NO3</sub> /kg)
1.1	Fresh spinach ( <i>Spinacia oleracea</i> ), unless it is intended for processing	3 500
1.2	Preserved, frozen or frozen spinach	2 000
1.3	Fresh lettuce ( <i>Lactuca sativa</i> L.) (lettuce grown under cover and lettuce grown in the field, with the exception of lettuce listed in point 1.4)	
	Harvest from October 1st to March 31st:	
	– Lettuce grown under cover	5 000
	– Free-range lettuce	4 000
1.4	Iceberg lettuce	
	– Lettuce grown under cover	2 500
	– Free-range lettuce	2 000
1.5	Arugula ( <i>Eruca sativa</i> , <i>Diplotaxis</i> sp, <i>Brassica tenuifolia</i> , <i>Sisymbrium tenuifolium</i> )	
	– Harvest from October 1st to March 31st	7 000
	– Harvest from April 1st to September 30th	6 000
1.6	Cereal-based formulas and foods for infants and young children	200

#### II. Mycotoxins

Category	Primary product or food product	Maximum Limits (µg/kg)		
		B <sub>1</sub>	Sum of B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> and G <sub>2</sub>	MI
2.1	<i>Aflatoxins</i>			
2.1.1	Peanuts and other oilseeds, hazelnuts and Brazil nuts intended to be sorted or subjected to other physical methods prior to human consumption or use as ingredients in foodstuffs, unless they are intended to be ground for the manufacture of refined vegetable oil	8,0	15,0	-
2.1.2	Almonds, pistachios and apricot kernels intended to be sorted or other physical methods prior to human consumption or use as ingredients in food products	12,0	15,0	-
2.1.3	Nuts, with the exception of nuts listed in points 2.1.1 and 2.1.2, intended to be subjected to sorting or other physical methods prior to human consumption or use as an ingredient in foodstuffs	5,0	10,0	-
2.1.4	Peanuts and other oilseeds and processed products thereof, intended for direct human consumption or for use as ingredients in food products, with the exception of: <ul style="list-style-type: none"> <li>– crude vegetable oils intended for refinement</li> <li>– Refined vegetable oils</li> </ul>	2,0	4,0	-
2.1.5	Almonds, pistachios and apricot kernels intended for direct human consumption or for use as ingredients in food products	8,0	10,0	-

2.1.6	Hazelnuts and Brazil nuts intended for direct human consumption or for use as ingredients in food products	5,0	10,0	-
2.1.7	Nuts, except nuts listed in 2.1.5. and 2.1.6, and products derived from their processing intended for direct human consumption or direct use as an ingredient in food products	2,0	4,0	-
2.1.8	Dried fruit, other than dried figs, intended to be sorted or subjected to other physical methods prior to human consumption or use as ingredients in foodstuffs	5,0	10,0	-
2.1.9	Dried fruit, other than dried figs, and products derived from their processing, intended for direct human consumption or for use as ingredients in foodstuffs	2,0	4,0	-
2.1.10	Figs	6,0	10,0	-
2.1.11	All cereals and cereal products, including processed cereal products, with the exception of foodstuffs listed in points 2.1.12, 2.1.15 and 2.1.17	2,0	4,0	-
2.1.12	Maize and rice intended to be subjected to sorting or other physical methods prior to human consumption or use as food ingredients	5,0	10,0	-
2.1.13	Raw milk, heat-treated milk and milk for the manufacture of milk-based products	-	-	0,05
2.1.14	The following categories of spices: <i>Capsicum</i> spp. (derived, whole or powdered dried fruit, including chili peppers, chili powder, cayenne pepper and paprika) <i>Piper</i> spp. (fruit derivatives, including white pepper and black pepper) <i>Myristica fragrans</i> (nutmeg) <i>Zingiber officinale</i> (ginger) <i>Turcuma longa</i> (turmeric) Spice blends containing one or more of the above spices	5,0	10,0	-
2.1.15	Cereal-based formulae and baby food for infants and young children	0,10	-	-
2.1.16	Infant formula and follow-on formula, including infant milk and follow-on milk	-	-	0,025
2.1.17	Dietary foods for special medical purposes, specifically for infants	0,10	-	0,025
<b>2.2</b>	<b><i>Ochratoxin A</i></b>	<b>Maximum Limits (µg/kg)</b>		
2.2.1	Raw cereals	5,0		
2.2.2	All products derived from raw cereals, including processed cereals and cereals intended for direct human consumption, with the exception of the food products listed in points 2.2.9, 2.2.10 and 2.2.14	3,0		
2.2.3	Raisins (currants, sultanas and other raisins)	10,0		
2.2.4	Roasted coffee beans and ground roasted coffee, excluding instant coffee	5,0		
2.2.5	Instant coffee (instant coffee)	10,0		
2.2.6	Wines (including sparkling wines, but excluding liqueur wines and wines with an alcoholic strength by volume of at least 15%) and fruit wines	2,0		
2.2.7	Flavoured wines, flavoured wine-based beverages and cocktails flavoured with wine products	2,0		
2.2.8	Grape juice, reconstituted concentrated grape juice, grape nectar, grape must and reconstituted concentrated grape must, for direct human consumption	2,0		
2.2.9	Cereal-based formulae and baby food for infants and young children	0,5		
2.2.10	Dietary foods for special medical purposes, specifically for infants	0,5		
2.2.11	Spices, including dried spices <i>Piper</i> spp. (fruits derived from it, including white pepper and black pepper) <i>Myristica fragrans</i> (nutmeg) <i>Zingiber officinale</i> (ginger) <i>Turcuma longa</i> (turmeric)	15		
	<i>Capsicum</i> spp. (dried fruit, whole or powdered, including chili peppers, chili powder, cayenne pepper and paprika)	20		
	Spice blends containing any of the above spices	15		
2.2.12	Licorice wood ( <i>Glycyrrhiza glabra</i> , <i>Glycyrrhiza inflata</i> and other species), ingredient for infusion	20		

2.2.13	Licorice extract ( <i>Glycyrrhiza glabra</i> , <i>Glycyrrhiza inflata</i> and other species), for use in food products, especially beverages and confectionery	80
2.2.14	Wheat gluten not sold directly to the consumer	8,0
<b>2.3</b>	<b><i>Patulin</i></b>	<b>Maximum Limits (µg/kg)</b>
2.3.1	Fruit juices, reconstituted concentrated fruit juices and fruit nectars	50
2.3.2	Spirits, cider and other fermented beverages produced from or containing apple juice	50
2.3.3	Products made from apple pieces, such as applesauce and apple puree, intended for direct consumption with the exception of the food products listed in sections 2.3.4 and 2.3.5	25
2.3.4	Apple juice and apple chunk products, such as applesauce and apple puree, that are intended for infants and young children, and are labelled and sold as such	10,0
2.3.5	Baby food, other than cereal-based formula, intended for infants and young children	10,0
<b>2.4</b>	<b><i>Deoxynivalenol</i></b>	<b>Maximum Limits (µg/kg)</b>
2.4.1	Raw cereals other than durum wheat, oats, rice and maize	1250
2.4.2	Raw durum wheat and oats	1750
2.4.3	Raw maize except raw maize intended for wet milling	1750
2.4.4	Cereals for direct human consumption, cereal flour, bran and germ as a finished product marketed for direct human consumption, with the exception of foodstuffs listed in points 2.4.7, 2.4.8 and 2.4.9 and rice products	750
2.4.5	Dry pasta	750
2.4.6	Bread (including small baked goods), pastries, cookies, cereal snacks, and breakfast cereals	500
2.4.7	Cereal-based formulae and baby food for infants and young children	200
2.4.8	Corn milling fractions with particle size > 500 microns	750
2.4.9	Corn milling fractions with particle size ≤ 500 microns	1250
<b>2.5</b>	<b><i>Zearalenone</i></b>	<b>Maximum Limits (µg/kg)</b>
2.5.1	Crude cereals other than maize	100
2.5.2	Raw maize except raw maize intended for wet milling	350
2.5.3	Cereals intended for direct human consumption, cereal flour, bran and germ as a finished product marketed for direct human consumption, with the exception of foodstuffs listed in points 2.5.6, 2.5.7, 2.5.8 and 2.5.9 and rice products	75
2.5.4	Refined Corn Oil	400
2.5.5	Bread (including small baked goods), pastries, cookies, cereal snacks, and breakfast cereals, excluding corn snacks and corn-based breakfast cereals	50
2.5.6	Corn for direct human consumption, corn-based snacks, and corn-based breakfast cereals	100
2.5.7	Cereal-based formulae and baby food for infants and young children	20
2.5.8	Corn milling fractions with particle size > 500 microns	200
2.5.9	Corn milling fractions with particle size ≤ 500 microns	200
<b>2.6</b>	<b><i>Fumonisin (sum B<sub>1</sub> + B<sub>2</sub>)</i></b>	<b>Maximum Limits (µg/kg)</b>
2.6.1	Raw maize except raw maize intended for wet milling	4 000
2.6.2	Maize for direct human consumption, maize-based feedingstuffs intended for direct human consumption, with the exception of the foodstuffs listed in points 2.6.3 and 2.6.4	1 000
2.6.3	Corn-based breakfast cereals and corn-based snacks	800
2.6.4	Maize formulae and baby food for infants and young children	200
2.6.5	Corn milling fractions with particle size > 500 microns	1 400

2.6.6	Corn milling fractions with particle size $\leq$ 500 microns	2 000
<b>2.7</b>	<b><i>Ergot sclerotia</i></b>	<b>Maximum Limits (g/kg)</b>
2.7.1	Crude cereals, except maize and rice	0,5

### III. Trace metal elements

Category	Primary product or food product	Maximum Limits (mg/kg)
<b>3.1</b>	<b>Lead</b>	
3.1.1	Raw milk, heat-treated milk and milk for the manufacture of dairy products	0,02
3.1.2	Infant formula and follow-on formula:	
	– marketed in powder form	0,050
	– marketed in liquid form	0,010
3.1.3	Cereal-based formulae and baby food for infants and young children other than those referred to in point 3.1.5	0,050
3.1.4	Foods for Special Medical Purposes Intended Specifically for Infants and Young Children:	
	– marketed in powder form	0,050
	– marketed in liquid form	0,010
3.1.5	Beverages intended for infants and young children and labelled and sold as such, other than those referred to in 3.1.2 and 3.1.4	
	– marketed as liquids or intended to be reconstituted according to the manufacturer's instructions, including fruit juices	0,030
	– intended to be prepared by infusion or decoction	1,5
3.1.6	Meat of bovine animals, sheep, pigs and poultry (excluding offal)	0,1
3.1.7	Bovine, sheep, pork and poultry offal	0,5
3.1.8	Fish muscle flesh	0,3
3.1.9	Crustaceans: muscular flesh of the appendages and abdomen. In the case of crabs and crab-like crustaceans ( <i>Brachyura</i> and <i>Anomura</i> ), muscle flesh of the appendages	0,5
3.1.10	Bivalve molluscs	1,5
3.1.11	Cephalopods (without viscera)	0,30
3.1.12	Cereals and legumes	0,20
3.1.13	Vegetables, excluding leafy caulilage, salsify, leafy greens, herbs, mushrooms, seaweed and fruiting vegetables	0,10
3.1.14	Leafy cauliam, salsify, leafy greens and the following mushrooms: <i>Agaricus bisporus</i> (button mushroom), <i>Pleurotus ostreatus</i> (oyster mushroom), <i>Lentinula edodes</i> (Shiitake)	0,30
3.1.15	Fruiting vegetables:	
	– Sweetcorn	0,10
	– other than sweetcorn	0,05
3.1.16	Fruit, excluding berries and berries	0,10
3.1.17	Berries & Berries	0,20
3.1.18	Oils and fats, including milk fats	0,10
3.1.19	Fruit juices, reconstituted concentrated fruit juices and fruit nectars:	
	– made exclusively from berries and other berries	0,05
	– made from fruits other than berries and other berries	0,03
3.1.20	Wines (including sparkling wines, but excluding liqueur wines), ciders, perry and fruit wines	0,2
3.1.21	Flavoured wines, flavoured wine-based beverages and cocktails flavoured with wine products	0,2
3.1.22	Dietary Supplements	3,0
3.1.23	Honey	0,1
3.1.24	Salt	1

3.1.25	Canned tomatoes	0,05
3.1.26	Jams, jellies and marmalades	0,4
3.1.27	Table olives	0,4
3.1.28	Canned fruit	0,1
3.1.29	Dried spices:	
	– Fruit-based spices	0,60
	– Spices derived from roots or rhizomes	1,50
	– Spices from bark	2,0
	– Spices from flower buds and pistils	1,0
	– Spice seeds	0,90
<b>3.2</b>	<b>Cadmium</b>	<b>Maximum Limits (mg/kg)</b>
3.2.1	Vegetables and fruits, excluding root and tuber vegetables, leafy greens, herbs, leafy caulilage, stem vegetables, mushrooms and seaweed	0,05
3.2.2	Root and tuber vegetables (excluding celeriac, parsnips, salsify and horseradish), stem vegetables (excluding celery). In the case of potatoes, the maximum limit applies to peeled products	0,10
3.2.3	Leafy greens, herbs, leafy cauliflower, celery, celeriac, parsnips, salsify, horseradish and the following mushrooms: <i>Agaricus bisporus</i> (button mushroom), <i>Pleurotus ostreatus</i> (oyster mushroom), <i>Lentinula edodes</i> (shiitake)	0,2
3.2.4	Fungi, excluding those listed in section 3.2.3	1,0
3.2.5	Cereal grains, excluding wheat and rice	0,1
3.2.6	Wheat grains, rice grains, wheat bran and wheat germ for direct consumption, soybeans	0,2
3.2.7	Specific cocoa and chocolate products, listed below:	
	– Milk chocolate with < 30% total cocoa solids	0,1
	– Chocolate with < 50% total cocoa solids	0,3
	– Milk chocolate with ≥ 30% total cocoa solids	0,3
	– Chocolate with ≥ 50% total cocoa solids	0,8
	– cocoa powder sold to the final consumer or as an ingredient in sweetened cocoa powder sold to the final consumer (chocolate beverage)	0,6
3.2.8	Meat of bovine animals, sheep, pigs and poultry (excl. offal)	0,05
3.2.9	Horsemeat, excluding offal	0,2
3.2.10	Cattle, sheep, pork, poultry and horse livers	0,5
3.2.11	Kidneys of cattle, sheep, pork, poultry and horse	1,0
3.2.12	Muscle meat of fish, excluding the species listed in 3.2.13, 3.2.14 and 3.2.15	0,05
3.2.13	Muscle flesh of the following fish: mackerel ( <i>Scombersp</i> ), tuna ( <i>Thunnus sp</i> , <i>Katsuwonus pelamis</i> , <i>Euthynnussp</i> ), hare's chimoptera ( <i>Sicyopterus lagocephalus</i> )	0,1
3.2.14	Muscle flesh of the following fish: bonito ( <i>Auxis species</i> )	0,15
3.2.15	Muscle flesh of the following fish: anchovies ( <i>Engraulissp</i> ), swordfish ( <i>Xiphias gladius</i> ), sardines ( <i>Sardina pilchardus</i> )	0,25
3.2.16	Crustaceans: muscular flesh of the appendages and abdomen. In the case of crabs and crab-like crustaceans ( <i>Brachyura</i> and <i>Anomura</i> ), muscle flesh of the appendages	0,5
3.2.17	Bivalve molluscs except oysters and mussels	1,0
3.2.18	Oysters & Mussels	2,0
3.2.19	Cephalopods (without viscera)	1,0
3.2.20	Infant formula and follow-on formula:	
	– Powdered formulas based on cow's milk protein or protein hydrolysates	0,01
	– Liquid formulas based on cow's milk protein or protein hydrolysates	0,005



	– powdered formulas based on soy protein isolates, alone or mixed with cow's milk protein	0,02
	– Liquid formulas based on soy protein isolates, alone or mixed with cow's milk protein	0,01
3.2.21	Cereal-based formulae and baby food for infants and young children	0,04
3.2.22	Food supplements, excluding those listed in point 3.2.23	1,0
3.2.23	Food supplements consisting exclusively or mainly of dried seaweed, products derived from seaweed, or dried bivalve molluscs	3,0
3.2.24	Legumes	0,1
3.2.25	Salt	0,5
<b>3.3</b>	<b>Mercury</b>	<b>Maximum Limits (mg/kg)</b>
3.3.1	Fishery products and muscle meat of fish, excluding the species listed in point 3.3.2. The maximum limit for crustaceans applies to the muscle flesh of the appendages and abdomen. In the case of crabs and crab-like crustaceans ( <i>Brachyura</i> and <i>Anomura</i> ), it applies to the muscle flesh of the appendages	0,5
3.3.2	Muscle flesh of the following fish: – anglerfish ( <i>Lophius species</i> ) – wolf ( <i>Anarhichas lupus</i> ) – bonito ( <i>Sarda sarda</i> ) – eel ( <i>Anguilla species</i> ) – Emperor, orange roughy or Mediterranean roughy ( <i>Hoplostethus species</i> ) – roundnose grenadier ( <i>Coryphaenoides rupestris</i> ) – halibut ( <i>Hippoglossus hippoglossus</i> ) – Cape abadèche ( <i>Genypterus capensis</i> ) – marlin ( <i>Makaira species</i> ) – Drop-in ( <i>Lepidorhombus species</i> ) – mullet ( <i>Mullus species</i> ) – pink ( <i>Genypterus blacodes</i> ) – Palomete ( <i>Orcynopsis unicolor</i> ) – Mediterranean capelin ( <i>Tricopterus minutes</i> ) – Common pailona ( <i>Centroscymnes coelolepis</i> ) – rays ( <i>Raja species</i> ) – large redfish ( <i>Sebastes marinus</i> , <i>S. mentella</i> , <i>S. viviparus</i> ) – sailfish ( <i>Istiophorus platypterus</i> ) – sabres ( <i>Lepidopus caudatus</i> , <i>Aphanopus carbo</i> ) – Sea bream, sea bream ( <i>Pagellus species</i> ) – Sharks (all species) – black escolar or stromate, rouvet, serpent escolar ( <i>Lepidocybium flavobrunneum</i> , <i>Ruvettus pretiosus</i> , <i>Gempylus serpens</i> ) – Sturgeon ( <i>Acipenser species</i> ) – Swordfish ( <i>Xiphias gladius</i> ) – tuna ( <i>Thunnus species</i> , <i>Euthynnus species</i> , <i>Katsuwonus pelamis</i> ) – pike ( <i>Esox lucius</i> )	1,0
3.3.3	Dietary Supplements	0,1
3.3.4	Salt	0,1
<b>3.4</b>	<b>Inorganic tin</b>	<b>Maximum Limits (mg/kg)</b>
3.4.1	Canned foods other than beverages	200
3.4.2	Canned beverages, including fruit and vegetable juices	100
3.4.3	Canned baby food and cereal-based formulas intended for infants and young children, excluding dried and powdered products	50
3.4.4	Canned infant formula and follow-on formula (including infant milk and follow-on milk), excluding dried and powdered products	50

3.4.5	Canned dietetic foods intended for special medical purposes, specifically for infants, excluding dried and powdered products	50
3.4.6	Corned beef	50
3.4.7	Cooked salted minced meat	50
3.4.8	Luncheon	50
<b>3.5</b>	<b><i>Arsenic (inorganic)</i></b>	<b>Maximum Limits (mg/kg)</b>
3.5.1	Rice, husked	0.35
3.5.2	Rice, polished	0.35
3.5.3	Puffed rice cakes, rice papers, rice crackers and rice flour cakes	0,30
3.5.4	Rice for the production of food products for infants and young children	0.1
<b>3.6</b>	<b><i>Arsenic (total)</i></b>	<b>Maximum Limits (mg/kg)</b>
3.6.1	Salt	0,5
3.6.2	Edible fats and oils	0.1
3.6.3	Spreadable fats	0,1

#### IV. 3-monochloro-propane-1,2-diol (3-MCPD), 3-MCPD fatty acids, and glycidol fatty acid esters

Category	Primary product or food product	Maximum Limits (µg/kg)
<b>4.1</b>	<b><i>3-monochloropropanediol (3-MCPD)</i></b>	
4.1.1	Hydrolyzed Vegetable Protein	20
4.1.2	Soy sauce	20
<b>4.2</b>	<b><i>Glycidol fatty acid esters, expressed as glycidol</i></b>	
4.2.1	Vegetable oils and fats, fish oils and oils derived from other marine organisms, placed on the market for sale to the final consumer or for use as an ingredient in foodstuffs, excluding foodstuffs referred to in point 4.2.2 and virgin olive oils	1 000
4.2.2	Vegetable oils and fats, fish oils and oils derived from other marine organisms, for use in the production of baby food and cereal-based formulae for infants and young children	500
4.2.3	Infant formulae, follow-on formulae, food products for special medical purposes for infants and young children and infant formula (powder)	50
4.2.4	Infant formulae, follow-on formulae, food products for special medical purposes for infants and young children, and infant formula (liquids)	6,0
<b>4.3</b>	<b><i>Sum of 3-monochloropropanediol (3-MCPD) and its fatty acid esters, expressed as 3-MCPD</i></b>	
4.3.1	Vegetable oils and fats, fish oils and oils derived from other marine organisms, placed on the market for sale to the final consumer or for use as an ingredient in foodstuffs falling within the following categories, excluding foodstuffs referred to in point 4.3.2 and virgin olive oils:	
	– Coconut, maize, rapeseed, sunflower, soybean, palm kernel and olive oils (consisting of refined olive oil and virgin olive oil) and mixtures of oils and fats with oils and fats falling solely within this category	1 250
	– Other vegetable oils (including olive-pomace oils), fish oils and oils from other marine organisms and mixtures of oils and fats with oils and fats falling solely within this category	2 500
4.3.2	Vegetable oils and fats, fish oils and oils from other marine organisms for the production of baby food products and cereal-based formulas for infants and young children	750
4.3.3	Infant formulae, follow-on formulae, food products for special medical purposes for infants and young children, and infant formula (powder)	125
4.3.4	Infant formulae, follow-on formulae, food products for special medical purposes for infants and young children, and infant formulae (liquid)	15

## V. Dioxins and PCB

Category	Primary product or food product	Maximum limits		
		Sum of dioxins (WHO PCDD/F-TEQ)	Sum of dioxins and dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ)	Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180
5.1	Meat and meat products (excluding edible offal), including their fat, from the following animals:			
	– Cattle and sheep	2,5Pg/G of fats	4,0Pg/G of fats	40Ng/G of fats
	– Poultry	1,75Pg/G of fats	3,0Pg/G of fats	40ng/g of fat
	– Pigs	1.0Pg/G of fats	1,25Pg/G of fats	40Ng/G of fats
5.2	Livers of terrestrial animals referred to in point 5.1, with the exception of sheep livers and products derived from these livers	0,30Pg/G of weight in the fresh state	0.50Pg/G of weight in the fresh state	3,0Ng/G of weight in the fresh state
5.3	Sheep livers and their derivatives	1,25Pg/G of weight in the fresh state	2,00Pg/G of weight in the fresh state	3,0Ng/G of weight in the fresh state
5.4	Muscle meat of fish, fishery products and derived products, excluding: <ul style="list-style-type: none"> <li>– OfThe captured wild eel,</li> <li>– OfWild freshwater fish caught, with the exception of diadrome fish species caught in freshwater,</li> <li>– OfThe common aeguillat/sea dog (<i>SqualusAcanthias</i>) captured wild,</li> <li>– OfFish liver and products derived from its processing,</li> <li>– OfMarine oils</li> </ul> <p>The maximum limit for crustaceans applies to the muscular flesh of the appendages and abdomen. In the case of crabs and crustaceans of the crab type (<i>Brachyura</i>And <i>Anomura</i>), it applies to the muscle flesh of the appendages.</p>	3,5Pg/G of weight in the fresh state	6,5Pg/G of weight in the fresh state	75Ng/G of weight in the fresh state
5.5	Muscular flesh of captured wild freshwater fish, with the exception of diadrome fish species caught in freshwater, and derived products	3,5Pg/G of weight in the fresh state	6,5Pg/G of weight in the fresh state	125Ng/G of weight in the fresh state
5.6	Muscle flesh of captured wild eel ( <i>AnguillaAnguilla</i> )	3,5Pg/G of weight in the fresh state	10,0Pg/G of weight in the fresh state	300Ng/G of weight in the fresh state
5.7	Fish liver and products derived from its processing excluding marine oils referred to in point 5.8	—	20,0Pg/G of weight in the fresh state	200Ng/G of weight in the fresh state

5.8	Marine oils (fish body oil, fish liver oil and oils from other organismsSeafarers intended to be consumed by man)	1,75Pg/G of weight in the stateFresh	6,0Pg/G of weight in the fresh state	200Ng/G of weight in the stateFresh
5.9	Raw milk and dairy products, including butyric fat	2,5Pg/G of weight in the fresh state	5,5Pg/G of weight in the fresh state	40Ng/G of weight in the fresh state
5.10	Chicken eggs and egg products	2,5Pg/G of weight in the fresh state	5,0Pg/G of weight in the fresh state	40Ng/G of weight in the fresh state
5.11	Mixed animal fats	1,5Pg/G of fats	2,50Pg/G of fats	40Ng/G of fats
5.12	Vegetable oils and fats	0,75Pg/G of fats	1,25Pg/G of fats	40Ng/G of fats
5.13	Food products for the fedSsons and young children	0,1Pg/G of weight in the fresh state	0,2Pg/G of weight in the fresh state	1,0Ng/G of weight in the fresh state

## VI. Polycyclic aromatic hydrocarbons

Category	Primary product or food product	Maximum limits (Mg /kg)	
		Benzo(A)pyrene	Sum ofBenzo(A)pyrene,Benzo(A)anthracene,Benzo(B)fluoranthene andChrysene
6.1	Oils and fats (excluding cocoa butter and coconut oil) intended for direct human consumption or for use as food ingredients	2,0	10,0
6.2	Cocoa beans and derived products	5,0	30,0
6.3	Coconut oil intended for direct human consumption or for use as an ingredient in food products	2,0	20,0
6.4	Smoked meat and smoked meat products	2,0	12,0
6.5	Muscular flesh of smoked fish and smoked fishery products, excluding productsOf fishing listedIn points 6.6 and 6.9. The maximum limit for smoked crustaceans applies to the muscle flesh of the appendages and abdomen. In the case of crabs and crustaceans of the crab type ( <i>Brachyura</i> And <i>Anomura</i> ) smoked, it applies to the muscular flesh of the appendages.	2,0	12,0
6.6	Canned sprat and sprat ( <i>Sprattus Sprattus</i> ) smoked	5,0	30,0
6.7	Grilled or barbecued meat and grilled or barbecued meat products, sold to the final consumer	5,0	30,0
6.8	Bivalves molluscs (fresh, chilled or frozen)	5,0	30,0
6.9	Bivalves molluscs (smoked)	6,0	35,0
6.10	Cereal preparations and baby food for infants and young children	1,0	1,0

6.11	Infant formulae and follow-on formulae, including infant milk and follow-on milk	1,0	1,0
6.12	Dietary foods intended for special medical purposes specifically for infants	1,0	1,0
6.13	Cocoa fiber and products derived from cocoa fiber, intended for use as food ingredients	3,0	15,0
6.14	Banana chips	2,0	20,0
6.15	Food supplements containing botanical substances and their preparations Food supplements containing propolis, royal jelly, spirulina or their preparations	10,0	50,0
6.16	Dried herbs	10,0	50,0
6.17	Dried spices with the exception of cardamom and spiceCapsicum Spp. smoke	10,0	50,0
6.18	Powders of food products of vegetable origin for the preparationOf beverages, with the exception of the products referred to in points 6.2 and 6.13	10,0	50,0

## VII. Melamine and structural analogues

Category	Primary product or food product	Maximum limits(Mg/kg)
<b>7.1</b>	<b><i>Melamine</i></b>	
7.1.1	All food products, with the exception of infant formulae and follow-on formulae	2,5
7.1.2	Infant formulae and powdered follow-on formulae	1
7.1.3	Infant formula in liquid form	0,15

## VIII. Endogenous toxins of plants

Category	Primary product or food product	Maximum limits (g/kg)
<b>8.1</b>	<b><i>Erucic acid, including erucic acid bound in fat</i></b>	
8.1.1	Vegetable oils and fats placed on the market for sale to the final consumer or for use as food ingredients, with the exception of camelina oil, mustard oil and borage oil	20,0
8.1.2	Cameline oil, mustard oil and borage oil	50,0
8.1.3	Mustard (condiment)	35,0

Category	Primary product or food product	Maximum limits (µg/kg)	
<b>8.2</b>	<b><i>AlkaloidsTropanics</i></b>		
		<b>Atropine</b>	<b>Scopolamine</b>

8.2.1	Cereal preparations and food for infants and young children containing millet, sorghum, buckwheat or products derived therefrom	1.0 µg/kg	1.0 µg/kg
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Category	Primary product or food product	LimitsMaximum (mg/kg)
<b>8.3</b>	<b><i>Hydrocyanic acid, including hydrocyanic acid bound in cyanogenic glycosides</i></b>	
8.3.1	Whole, crushed, ground, broken or crushed unprocessed apricot almonds that are placed on the market for sale to the final consumer	20,0
8.3.2	Gari	2
8.3.3	Cassava flour	10

## IX. Perchlorates

Category	Primary product or food product	LimitsMaximum (Mg/kg)
<b>9</b>	<b><i>Perchlorates</i></b>	
9.1	Fruits and vegetables Excluding:	0.05
	— Cucurbitaceae And kale	0,10
	— leafy vegetables and herbs	0.50
9.2	Tea (CamelliaSinensis) Infusions of dried plants and fruits	0.75
9.3	Infant formulae, follow-on formulae and food products for special medical purposes for infants and preparations for young children	0.01
9.4	Baby food	0.02
9.5	Processed cereal-based foods	0.01

## X. Acrylamide

Category	Primary product or food product	Alert threshold [µg/kg]	Deadline for the application of alert thresholds
10.1	Fries (ready to eat)	500	5 years
10.2	Chips obtained from fresh potatoes and potato paste Potato-based crackers Other potato products obtained from potato paste	750	5 years
10.3	Bread (wet breading):		5 years
	a) Wheat bread	50	
	b) Bread (wet breading) other than wheat-based bread	100	
10.4	Breakfast cereals (except porridge)		5 years
	– Products based on bran and whole grains, grains blown with a gun	300	
	– Wheat and rye products	300	
	– Products based on corn, oats, spelt, barley and rice	150	
10.5	Cookies and wafers	350	5 years
	Crackers, with the exception of potato crackers	400	
	Crispy bread	350	
	Gingerbread	800	
	Products comparable to other products belonging to this category	300	
10.6	Roasted coffee	400	5 years
10.7	Instant coffee (soluble)	850	5 years
10.8	Coffee succedates:		5 years
	A) Coffee succedates obtained only from cereals	500	
	B) Coffee succedates obtained from a mixture of cereals and chicory	—	
	C) Coffee replacements obtained only from chicory	4000	
10.9	Baby food products, cereal-based preparations for infants and young children, with the exception of biscuits and rusks	40	5 years
10.10	Biscuits and rusks for infants and young children	150	5 years