

[^{F1}ANNEX I**Textual Amendments**

- F1** Substituted by [Commission Regulation \(EU\) No 574/2011 of 16 June 2011 amending Annex I to Directive 2002/32/EC of the European Parliament and of the Council as regards maximum levels for nitrite, melamine, Ambrosia spp. and carry-over of certain coccidiostats and histomonostats and consolidating Annexes I and II thereto \(Text with EEA relevance\).](#)

MAXIMUM LEVELS OF UNDESIRABLE
SUBSTANCES, AS REFERRED TO IN ARTICLE 3(2)

SECTION I: INORGANIC CONTAMINANTS AND NITROGENOUS COMPOUNDS

| Undesirable substance | Products intended for animal feed | Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % |
|-----------------------------------|---|---|
| 1. Arsenic ^a | Feed materials | 2 |
| | with the exception of: | |
| | — meal made from grass, from dried lucerne and from dried clover, and dried sugar beet pulp and dried molasses sugar beet pulp, | 4 |
| | — palm kernel expeller, | 4 ^b |
| | — phosphates and calcareous marine algae, | 10 |
| | — calcium carbonate, | 15 |
| | — magnesium oxide and magnesium carbonate, | 20 |
| | — fish, other aquatic animals and products derived thereof, | 25 ^b |
| — seaweed meal and feed materials | 40 ^b | |

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SECTION I: INORGANIC CONTAMINANTS AND NITROGENOUS COMPOUNDS

| | | |
|----|--|-----------------|
| | derived from seaweed. | |
| | Iron particles used as tracer. | 50 |
| | Feed additives belonging to the functional groups of compounds of trace elements | 30 |
| | with the exception of: | |
| | — cupric sulphate pentahydrate and cupric carbonate, | 50 |
| | — zinc oxide, manganous oxide and cupric oxide. | 100 |
| | Complementary feed | 4 |
| | with the exception of: | |
| | — mineral feed. | 12 |
| | Complete feed | 2 |
| | with the exception of: | |
| | — complete feed for fish and fur animals. | 10 ^b |
| 2. | Cadmium | |
| | Feed materials of vegetable origin. | 1 |
| | Feed materials of animal origin. | 2 |
| | Feed materials of mineral origin | 2 |
| | with the exception of: | |
| | — phosphates. | 10 |
| | Feed additives belonging to the functional group of compounds of trace elements | 10 |
| | with the exception of: | |
| | — cupric oxide, manganous oxide, zinc oxide and | 30 |

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SECTION I: INORGANIC CONTAMINANTS AND NITROGENOUS COMPOUNDS

| | | |
|----|---|--|
| | manganous sulphate monohydrate. | |
| | Feed additives belonging to the functional groups of binders and anti-caking agents. | 2 |
| | Premixtures ^f | 15 |
| | Complementary feed | 0,5 |
| | with the exception of: | |
| | — mineral feed | |
| | -- containing < 7 % phosphorus ^h , | 5 |
| | -- containing ≥ 7 % phosphorus ^h , | 0,75 per 1 % phosphorus ^h , with a maximum of 7,5 |
| | — complementary feed for pet animals. | 2 |
| | Complete feed | 0,5 |
| | with the exception of: | |
| | — complete feed for cattle (except calves), sheep (except lambs), goats (except kids) and fish, | 1 |
| | — complete feed for pet animals. | 2 |
| 3. | Fluorine ^g | |
| | Feed materials | 150 |
| | with the exception of: | |
| | — feed materials of animal origin except marine crustaceans such as marine krill, | 500 |
| | — marine crustaceans such as marine krill, | 3 000 |

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SECTION I: INORGANIC CONTAMINANTS AND NITROGENOUS COMPOUNDS

| | | |
|----|---|-------------------------------------|
| | — phosphates, | 2 000 |
| | — calcium carbonate, | 350 |
| | — magnesium oxide, | 600 |
| | — calcareous marine algae. | 1 000 |
| | Vermiculite (E 561). | 3 000 |
| | Complementary feed: | |
| | — containing $\leq 4\%$ phosphorus ^h , | 500 |
| | — containing $> 4\%$ phosphorus ^h . | 125 per 1 % phosphorus ^h |
| | Complete feed | 150 |
| | with the exception of: | |
| | — complete feed for pigs, | 100 |
| | — complete feed for poultry (except chicks) and fish, | 350 |
| | — complete feed for chicks, | 250 |
| | — complete feed for cattle, sheep and goats | |
| | - - in lactation, | 30 |
| | - - other. | 50 |
| 4. | Lead | |
| | Feed materials | 10 |
| | with the exception of: | |
| | — forage ^e , | 30 |
| | — phosphates and calcareous marine algae, | 15 |

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SECTION I: INORGANIC CONTAMINANTS AND NITROGENOUS COMPOUNDS

| | | |
|----|--|-----|
| | — calcium carbonate, | 20 |
| | — yeasts. | 5 |
| | Feed additives belonging to the functional group of compounds of trace elements | 100 |
| | with the exception of: | |
| | — zinc oxide, | 400 |
| | — manganous oxide, ferrous carbonate, cupric carbonate. | 200 |
| | Feed additives belonging to the functional group of binders and anti-caking agents | 30 |
| | with the exception of: | |
| | — clinoptilolite of volcanic origin. | 60 |
| | Premixtures ^f . | 200 |
| | Complementary feed | 10 |
| | with the exception of: | |
| | — mineral feed. | 15 |
| | Complete feed. | 5 |
| 5. | Mercury ^d | |
| | Feed materials | 0,1 |
| | with the exception of: | |
| | — fish, other aquatic animals and products derived thereof, | 0,5 |
| | — calcium carbonate. | 0,3 |
| | Compound feed | 0,1 |
| | with the exception of: | |
| | — mineral feed, | 0,2 |

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SECTION I: INORGANIC CONTAMINANTS AND NITROGENOUS COMPOUNDS

| | | |
|----|--|-----|
| | — compound feed for fish, | 0,2 |
| | — compound feed for dogs, cats and fur animals. | 0,3 |
| 6. | Nitrite ^e | |
| | Feed materials | 15 |
| | with the exception of: | |
| | — fishmeal, | 30 |
| | — silage, | — |
| | — products and by-products from sugar beet and sugarcane and from starch production. | — |
| | Complete feed | 15 |
| | with the exception of: | |
| | — complete feed for dogs and cats with a moisture content exceeding 20 %. | — |
| 7. | Melamine ⁱ | |
| | Feed | 2,5 |
| | with the exception of the feed additives: | |
| | — guanidino acetic acid (GAA), | — |
| | — urea, | — |
| | — biuret. | — |

a The maximum levels refer to total arsenic.

b Upon request of the competent authorities, the responsible operator must perform an analysis to demonstrate that the content of inorganic arsenic is lower than 2 ppm. This analysis is of particular importance for the seaweed species *Hizikia fusiforme*.

c Forage includes products intended for animal feed such as hay, silage, fresh grass, etc.

d The maximum levels refer to total mercury.

e The maximum levels are expressed as sodium nitrite.

f The maximum level established for premixtures takes into account the additives with the highest level of lead and cadmium and not the sensitivity of the different animal species to lead and cadmium. As provided in Article 16 of Regulation (EC) No 1831/2003 of the European Parliament and of the Council of 22 September 2003 on additives for

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use in animal nutrition (OJ L 268, 18.10.2003, p. 29), in order to protect animal and public health, it is the responsibility of the producer of premixtures to ensure that, in addition to compliance with the maximum levels for premixtures, the instructions for use on the premixture are in accordance with the maximum levels for complementary and complete feed.

- g** Maximum levels refer to an analytical determination of fluorine, whereby extraction is performed with hydrochloric acid 1 N for 20 minutes at ambient temperature. Equivalent extraction procedures can be applied for which it can be demonstrated that the used extraction procedure has an equal extraction efficiency.
- h** The % of phosphorus is relative to a feed with a moisture content of 12 %.
- i** The maximum level refers to melamine only. The inclusion of the structurally related compounds cyanuric acid, ammeline and ammelide in the maximum level will be considered at a later stage.

SECTION II:MYCOTOXINS

| Undesirable substance | Products intended for animal feed | Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % |
|--|---|---|
| 1. Aflatoxin B ₁ | Feed materials | 0,02 |
| | Complementary and complete feed | 0,01 |
| | with the exception of: | |
| | — compound feed for dairy cattle and calves, dairy sheep and lambs, dairy goats and kids, piglets and young poultry animals, | 0,005 |
| | — compound feed for cattle (except dairy cattle and calves), sheep (except dairy sheep and lambs), goats (except dairy goats and kids), pigs (except piglets) and poultry (except young animals). | 0,02 |
| 2. Rye ergot (<i>Claviceps purpurea</i>) | Feed materials and compound feed containing unground cereals. | 1 000 |

SECTION III:INHERENT PLANT TOXINS

| Undesirable substance | Products intended for animal feed | Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % |
|-----------------------|-----------------------------------|---|
| 1. Free gossypol | Feed materials | 20 |

- a** The maximum levels are expressed as allyl isothiocyanate.

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SECTION III: INHERENT PLANT TOXINS

| | | |
|----|---|-------|
| | with the exception of: | |
| | — cottonseed, | 5 000 |
| | — cottonseed cakes and cottonseed meal. | 1 200 |
| | Complete feed | 20 |
| | with the exception of: | |
| | — complete feed for cattle (except calves), | 500 |
| | — complete feed for sheep (except lambs) and goats (except kids), | 300 |
| | — complete feed for poultry (except laying hens) and calves, | 100 |
| | — complete feed for rabbits, lambs, kids and pigs (except piglets). | 60 |
| 2. | Hydrocyanic acid | 50 |
| | Feed materials | 50 |
| | with the exception of: | |
| | — linseed, | 250 |
| | — linseed cakes, | 350 |
| | — manioc products and almond cakes. | 100 |
| | Complete feed | 50 |
| | with the exception of: | |
| | — complete feed for young chickens (< 6 weeks). | 10 |

a The maximum levels are expressed as allyl isothiocyanate.

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SECTION III: INHERENT PLANT TOXINS

| | | | |
|--|--|---|-------|
| 3. | Theobromine | Complete feed | 300 |
| | | with the exception of: | |
| | | — complete feed for pigs, | 200 |
| | | — complete feed for dogs, rabbits, horses and fur animals. | 50 |
| 4. | vinyl thioxazolidone (5-vinyloxazolidine-2-thione) | Complete feed for poultry | 1 000 |
| | | with the exception of: | |
| | | — complete feed for laying hens. | 500 |
| 5. | Volatile mustard oil ^a | Feed materials | 100 |
| | | with the exception of: | |
| | | — rapeseed cakes. | 4 000 |
| | | Complete feed | 150 |
| | | with the exception of: | |
| | | — complete feed for cattle (except calves), sheep (except lambs) and goats (except kids), | 1 000 |
| — complete feed for pigs (except piglets) and poultry. | 500 | | |

a The maximum levels are expressed as allyl isothiocyanate.

SECTION IV: ORGANOCHLORINE COMPOUNDS (EXCEPT DIOXINS AND PCBs)

| Undesirable substance | Products intended for animal feed | Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % |
|------------------------|-----------------------------------|---|
| 1. Aldrin ^a | Feed materials and compound feed | 0,01 ^b |

a Singly or combined expressed as dieldrin.

b Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

c Numbering system according to Parlar, prefixed by either CHB or 'Parlar':
 CHB 26: 2-endo,3-exo,5-endo,6-exo,8,8,10,10-octochlorobornane,
 CHB 50: 2-endo,3-exo,5-endo,6-exo,8,8,9,10,10-nonachlorobornane,
 CHB 62: 2,2,5,5,8,9,9,10,10-nonachlorobornane.

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SECTION IV:ORGANOCHLORINE COMPOUNDS (EXCEPT DIOXINS AND PCBs)

| | | | |
|----|---|--|-------------------|
| 2. | Dieldrin ^a | with the exception of: | |
| | | — fats and oils, | 0,1 ^b |
| | | — compound feed for fish. | 0,02 ^b |
| 3. | Camphechlor (toxaphene) – sum of indicator congeners CHB 26, 50 and 62 ^c | Fish, other aquatic animals and products derived thereof | 0,02 |
| | | with the exception of | |
| | | — fish oil. | 0,2 |
| | | Complete feed for fish. | 0,05 |
| 4. | Chlordane (sum of cis- and trans-isomers and of oxychlordane, expressed as chlordane) | Feed materials and compound feed | 0,02 |
| | | with the exception of: | |
| | | — fats and oils. | 0,05 |
| 5. | DDT (sum of DDT-, DDD- (or TDE-) and DDE-isomers, expressed as DDT) | Feed materials and compound feed | 0,05 |
| | | with the exception of: | |
| | | — fats and oils. | 0,5 |
| 6. | Endosulfan (sum of alpha- and beta-isomers and of endosulfansulphate expressed as endosulfan) | Feed materials and compound feed | 0,1 |
| | | with the exception of: | |
| | | — maize and maize products derived from the processing thereof, | 0,2 |
| | | — oilseeds and products derived from the processing thereof, except crude vegetable oil, | 0,5 |

a Singly or combined expressed as dieldrin.

b Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

c Numbering system according to Parlar, prefixed by either CHB or 'Parlar':
 CHB 26: 2-endo,3-exo,5-endo,6-exo,8,8,10,10-octochlorobornane,
 CHB 50: 2-endo,3-exo,5-endo,6-exo,8,8,9,10,10-nonachlorobornane,
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SECTION IV:ORGANOCHLORINE COMPOUNDS (EXCEPT DIOXINS AND PCBs)

| | | | |
|---------------------------------------|--|-----------------------------------|-------|
| | — | crude vegetable oil, | 1,0 |
| | — | complete feed for fish. | 0,005 |
| 7. | Endrin (sum of endrin and of delta-ketoi-endrin, expressed as endrin) | Feed materials and compound feed | 0,01 |
| | | with the exception of: | |
| | | — fats and oils. | 0,05 |
| 8. | Heptachlor (sum of heptachlor and of heptachlorepoxyde, expressed as heptachlor) | Feed materials and compound feed | 0,01 |
| | | with the exception of: | |
| | | — fats and oils. | 0,2 |
| 9. | Hexachlorobenzene (HCB) | Feed materials and compound feed | 0,01 |
| | | with the exception of: | |
| | | — fats and oils. | 0,2 |
| 10.Hexachlorocyclohexane (HCH) | | | |
| — | alpha-isomers | Feed materials and compound feed | 0,02 |
| | | with the exception of: | |
| | | — fats and oils. | 0,2 |
| — | beta-isomers | Feed materials | 0,01 |
| | | with the exception of: | |
| | | — fats and oils. | 0,1 |
| | | Compound feed | 0,01 |
| | | with the exception of: | |
| | | — compound feed for dairy cattle. | 0,005 |

a Singly or combined expressed as dieldrin.

b Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

c Numbering system according to Parlar, prefixed by either CHB or 'Parlar':
 CHB 26: 2-endo,3-exo,5-endo,6-exo,8,8,10,10-octochlorobornane,
 CHB 50: 2-endo,3-exo,5-endo,6-exo,8,8,9,10,10-nonachlorobornane,
 CHB 62: 2,2,5,5,8,9,9,10,10-nonachlorobornane.

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SECTION IV:ORGANOCHLORINE COMPOUNDS (EXCEPT DIOXINS AND PCBs)

| | | | |
|---|---------------|----------------------------------|-----|
| — | gamma-isomers | Feed materials and compound feed | 0,2 |
| | | with the exception of: | |
| | — | fats and oils. | 2,0 |

a Singly or combined expressed as dieldrin.

b Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

c Numbering system according to Parlar, prefixed by either CHB or 'Parlar':
 CHB 26: 2-endo,3-exo,5-endo,6-exo,8,8,10,10-octochlorobornane,
 CHB 50: 2-endo,3-exo,5-endo,6-exo,8,8,9,10,10-nonachlorobornane,
 CHB 62: 2,2,5,5,8,9,9,10,10-nonachlorobornane.

SECTION V:DIOXINS AND PCBs

| Undesirable substance | Products intended for animal feed | Maximum content in ng WHO-PCDD/F-TEQ/kg (ppt) ^(a, b) relative to a feed with a moisture content of 12 % |
|---|---|--|
| 1. Dioxins (sum of polychlorinated dibenzo- <i>para</i> -dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs)) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO –TEFs (toxic equivalency factors, 1997 ^d) | Feed materials of plant origin | 0,75 |
| | with the exception of: | |
| | — vegetable oils and their by-products | 0,75 |
| | Feed materials of mineral origin | 1,0 |
| | Feed materials of animal origin: | |
| | — Animal fat, including milk fat and egg fat | 2,0 |
| | — Other land animal products including milk and milk products and eggs and egg products. | 0,75 |
| | — Fish oil | 6,0 |
| | — Fish, other aquatic animals and products derived thereof with the exception of fish oil and fish protein hydrolysates | 1,25 |

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SECTION V: DIOXINS AND PCBs

| | | |
|----|---|------|
| | containing more than 20 % fat ^c | |
| | — Fish protein hydrolysates containing more than 20 % fat. | 2,25 |
| | The feed additives kaolinitic clay, calcium sulphate dihydrate, vermiculite, natrolite-phonolite, synthetic calcium aluminates and clinoptilolite of sedimentary origin belonging to the functional groups of binders and anti-caking agents. | 0,75 |
| | Feed additives belonging to the functional group of compounds of trace elements. | 1,0 |
| | Premixtures | 1,0 |
| | Compound feed | 0,75 |
| | with the exception of: | |
| | — compound feed for pet animals and fish, | 2,25 |
| | — compound feed for fur animals. | — |
| 2. | Sum of dioxins and dioxin-like PCBs (sum of polychlorinated dibenzo- <i>para</i> -dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs)) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs | |
| | Feed materials of plant origin | 1,25 |
| | with the exception of: | |
| | — vegetable oils and their by-products. | 1,5 |
| | Feed materials of mineral origin | 1,5 |
| | Feed materials of animal origin: | |
| | — Animal fat, including milk fat and egg fat, | 3,0 |
| | — Other land animal products including | 1,25 |

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SECTION V: DIOXINS AND PCBs

| | | |
|---|---|------|
| (toxic equivalency factors, 1997 ^d) | milk and milk products and eggs and egg products. | |
| — | Fish oil | 24,0 |
| — | Fish, other aquatic animals and products derived thereof with the exception of fish oil and fish protein hydrolysates containing more than 20 % fat ^e | 4,5 |
| — | Fish protein hydrolysates containing more than 20 % fat. | 11,0 |
| | The feed additives kaolinitic clay, calcium sulphate dihydrate, vermiculite, natrolite-phonolite, synthetic calcium aluminates and clinoptilolite of sedimentary origin belonging to the functional groups of binders and anti-caking agents. | 1,5 |
| | Feed additives belonging to the functional group of compounds of trace elements. | 1,5 |
| | Premixtures | 1,5 |
| | Compound feed | 1,5 |
| | with the exception of: | |
| — | compound feed for pet animals and fish, | 7,0 |
| — | compound feed for fur animals. | — |

a Upper-bound concentrations; upper-bound concentrations are calculated on the assumption that all values of the different congeners below the limit of quantification are equal to the limit of quantification.

b The separate maximum level for dioxins (PCDD/F) remains applicable for a temporary period. The products intended for animal feed mentioned in point 1 have to comply both with the maximum levels for dioxins and with the maximum levels for the sum of dioxins and dioxin-like PCBs during that temporary period.

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- c** Fresh fish and other aquatic animals directly delivered and used without intermediate processing for the production of feed for fur animals are not subject to the maximum levels, while maximum levels of 4,0 ng WHO-PCDD/F-TEQ/kg product and 8,0 ng WHO-PCDD/F-PCB-TEQ/kg product are applicable to fresh fish and 25,0 ng WHO-PCDD/F-PCB-TEQ/kg product to fish liver used for the direct feeding of pet animals, zoo and circus animals or used as feed material for the production of pet food. The products or processed animal proteins produced from these animals (fur animals, pet animals, zoo and circus animals) cannot enter the food chain and cannot be fed to farmed animals which are kept, fattened or bred for the production of food.
- d** WHO-TEFs for human risk assessment based on the conclusions of the World Health Organisation meeting in Stockholm, Sweden, 1518 June 1997 (Van den Berg et al., (1998) Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

| Congener | TEF value |
|---|-----------|
| Dibenzo-p-dioxins ('PCDDs') and dibenzofurans (PCDFs) | |
| 2,3,7,8-TCDD | 1 |
| 1,2,3,7,8-PeCDD | 1 |
| 1,2,3,4,7,8-HxCDD | 0,1 |
| 1,2,3,6,7,8-HxCDD | 0,1 |
| 1,2,3,7,8,9-HxCDD | 0,1 |
| 1,2,3,4,6,7,8-HpCDD | 0,01 |
| OCDD | 0,0001 |
| 2,3,7,8-TCDF | 0,1 |
| 1,2,3,7,8-PeCDF | 0,05 |
| 2,3,4,7,8-PeCDF | 0,5 |
| 1,2,3,4,7,8-HxCDF | 0,1 |
| 1,2,3,6,7,8-HxCDF | 0,1 |
| 1,2,3,7,8,9-HxCDF | 0,1 |
| 2,3,4,6,7,8-HxCDF | 0,1 |
| 1,2,3,4,6,7,8-HpCDF | 0,01 |
| 1,2,3,4,7,8,9-HpCDF | 0,01 |
| OCDF | 0,0001 |
| 'Dioxin-like' PCBs Non-ortho PCBs + Mono-ortho PCBs | |
| Non-ortho PCBs | |
| PCB 77 | 0,0001 |
| PCB 81 | 0,0001 |
| PCB 126 | 0,1 |
| PCB 169 | 0,01 |
| Mono-ortho PCBs | |
| PCB 105 | 0,0001 |
| PCB 114 | 0,0005 |
| PCB 118 | 0,0001 |
| PCB 123 | 0,0001 |
| PCB 156 | 0,0005 |
| PCB 157 | 0,0005 |

Abbreviations used: 'T' = tetra; 'Pe' = penta; 'Hx' = hexa; 'Hp' = hepta; 'O' = octa; 'CDD' = chlorodibenzodioxin; 'CDF' = chlorodibenzofuran; 'CB' = chlorobiphenyl.

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| | |
|---------|---------|
| PCB 167 | 0,00001 |
| PCB 189 | 0,0001 |
| | |

Abbreviations used: 'T' = tetra; 'Pe' = penta; 'Hx' = hexa; 'Hp' = hepta; 'O' = octa; 'CDD' = chlorodibenzodioxin; 'CDF' = chlorodibenzofuran; 'CB' = chlorobiphenyl.

SECTION VI: HARMFUL BOTANICAL IMPURITIES

| Undesirable substance | Products intended for animal feed | Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % |
|---|-----------------------------------|--|
| 1. Weed seeds and unground and uncrushed fruits containing alkaloids, glucosides or other toxic substances separately or in combination including | Feed materials and compound feed | 3 000 |
| — <i>Datura</i> sp. | | 1 000 |
| 2. <i>Crotalaria</i> spp. | Feed materials and compound feed | 100 |
| 3. Seeds and husks from <i>Ricinus communis</i> L., <i>Croton tiglium</i> L. and <i>Abrus precatorius</i> L. as well as their processed derivatives ^a , separately or in combination | Feed materials and compound feed | 10 ^b |
| 4. Unhusked beech mast – <i>Fagus sylvatica</i> L. | Feed materials and compound feed | Seeds and fruit of the plant species listed opposite as well as their processed derivatives may only be present in feed in trace amounts not quantitatively determinable |
| 5. Purguera – <i>Jatropha curcas</i> L. | | |
| 6. Indian mustard – <i>Brassica juncea</i> (L.) Czern. And Coss. | | |

a In so far determinable by analytical microscopy.

b Includes also seed husk fragments.]

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SECTION VI:HARMFUL BOTANICAL IMPURITIES

| | | | |
|---------------------|--|---|-----|
| 7. | ssp. <i>integrifolia</i> (West.) Thell. Sareptian mustard – <i>Brassica juncea</i> (L.) Czern. And Coss. ssp. <i>juncea</i> | | |
| 8. | Chinese mustard – <i>Brassica juncea</i> (L.) Czern. And Coss. ssp. <i>juncea</i> var. <i>lutea</i> Batalin | | |
| 9. | Black mustard – <i>Brassica nigra</i> (L.) Koch | | |
| 10. | Ethiopian mustard – <i>Brassica carinata</i> A. Braun | | |
| [^{F2} 11. | Seeds from <i>Ambrosia</i> spp. | Feed materials | 50 |
| | | with the exception of: | |
| | | — Millet (grains of <i>Panicum miliaceum</i> L.) and sorghum (grains of <i>Sorghum</i> <i>bicolor</i> (L) Moench s.l.) not directly fed to animals. | 200 |
| | | Compound feed containing unground grains and seeds | 50] |

a In so far determinable by analytical microscopy.

b Includes also seed husk fragments.]

[^{F1}SECTION VII:AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| Coccidiostat | Products intended for animal feed^a | Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 % |
|---------------------|--|--|
| 1. Decoquinate | Feed materials | 0,4 |
| | Compound feed for | |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

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[^{F1}SECTION VII: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| | | | |
|----|--|--|------|
| | — laying birds and chickens reared for laying (> 16 weeks), | 0,4 | |
| | — chickens for fattening for the period before slaughter in which the use of decoquinat is prohibited (withdrawal feed), | 0,4 | |
| | — other animal species. | 1,2 | |
| | Premixtures for use in feed in which the use of decoquinat is not authorised. | ^b | |
| 2. | Diclazuril | Feed materials | 0,01 |
| | | Compound feed for | |
| | | — laying birds, chickens reared for laying (> 16 weeks) and turkeys for fattening (> 12 weeks), | 0,01 |
| | | — rabbits for fattening and breeding for the period before slaughter in which the use of diclazuril is prohibited (withdrawal feed), | 0,01 |
| | | — other animal species other than chickens reared for laying (< 16 weeks), chickens for fattening, guinea | 0,03 |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

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[^{F1}SECTION VII: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| | | | |
|----|---|--|--------------|
| | fowl and turkeys for fattening (< 12 weeks). | | |
| | Premixtures for use in feed in which the use of diclazuril is not authorised. | ^b | |
| 3. | Halofuginone hydrobromide | Feed materials | 0,03 |
| | | Compound feed for | |
| | | — laying birds, chickens reared for laying and turkeys (> 12 weeks), | 0,03 |
| | | — chickens for fattening and turkeys (< 12 weeks) for the period before slaughter in which the use of halofuginone hydrobromide is prohibited (withdrawal feed), | 0,03 |
| | | — other animal species. | 0,09 |
| | | Premixtures for use in feed in which the use of halofuginone hydrobromide is not authorised. | ^b |
| 4. | Lasalocid sodium | Feed materials | 1,25 |
| | | Compound feed for | |
| | | — dogs, calves, rabbits, equine species, dairy animals, laying birds, turkeys (> 16 weeks) and | 1,25 |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

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[^{F1}SECTION VII: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| | | |
|----|--|--------------|
| | chickens reared for laying (> 16 weeks), | |
| | — chickens for fattening, chickens reared for laying (< 16 weeks) and turkeys (< 16 weeks) for the period before slaughter in which the use of lasalocid sodium is prohibited (withdrawal feed), | 1,25 |
| | — other animal species. | 3,75 |
| | Premixtures for use in feed in which the use of lasalocid sodium is not authorised | ^b |
| 5. | Maduramicin ammonium alpha | |
| | Feed materials | 0,05 |
| | Compound feed for | |
| | — equine species, rabbits, turkeys (> 16 weeks), laying birds and chickens reared for laying (> 16 weeks), | 0,05 |
| | — chickens for fattening and turkeys (< 16 weeks) for the period before slaughter in which the use of maduramicin ammonium alpha is prohibited (withdrawal feed), | 0,05 |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

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[^{F1}SECTION VII: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| | | | |
|----|---|---|--------------|
| | — other animal species. | 0,15 | |
| | Premixtures for use in feed in which the use of maduramicin ammonium alpha is not authorised. | ^b | |
| 6. | Monensin sodium | Feed materials | 1,25 |
| | | Compound feed for | |
| | | — equine species, dogs, small ruminants (sheep and goat), ducks, bovine, dairy cattle, laying birds, chickens reared for laying (> 16 weeks) and turkeys (> 16 weeks), | 1,25 |
| | | — chickens for fattening, chickens reared for laying (< 16 weeks) and turkeys (< 16 weeks) for the period before slaughter in which the use of monensin sodium is prohibited (withdrawal feed), | 1,25 |
| | | — other animal species. | 3,75 |
| | | Premixtures for use in feed in which the use of monensin sodium is not authorised. | ^b |
| 7. | Narasin | Feed materials | 0,7 |
| | | Compound feed for | |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

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[^{F1}SECTION VII: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| | | | |
|----|--|-------------------|------|
| | — turkeys, rabbits, equine species, laying birds and chickens reared for laying (> 16 weeks), | 0,7 | |
| | — other animal species. | 2,1 | |
| | Premixtures for use in feed in which the use of narasin is not authorised. | ^b | |
| 8. | Nicarbazin | Feed materials | 1,25 |
| | | Compound feed for | |
| | — equine species, laying birds and chickens reared for laying (> 16 weeks), | 1,25 | |
| | — other animal species. | 3,75 | |
| | Premixtures for use in feed in which the use of nicarbazin (alone or in combination with narasin) is not authorised. | ^b | |
| 9. | Robenidine hydrochloride | Feed materials | 0,7 |
| | | Compound feed for | |
| | — laying birds and chickens reared for laying (> 16 weeks), | 0,7 | |
| | — chickens for fattening, rabbits for fattening and breeding and turkeys for the | 0,7 | |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

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[^{F1}SECTION VII: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| | | |
|------------------------|---|--------------|
| | period before slaughter in which the use of robenidine hydrochloride is prohibited (withdrawal feed), | |
| | — other animal species. | 2,1 |
| | Premixtures for use in feed in which the use of robenidine hydrochloride is not authorised. | ^b |
| 10. Salinomycin sodium | Feed materials | 0,7 |
| | Compound feed for | |
| | — equine species, turkeys, laying birds and chickens reared for laying (> 12 weeks), | 0,7 |
| | — chickens for fattening, chickens reared for laying (< 12 weeks) and rabbits for fattening for the period before slaughter in which the use of salinomycin sodium is prohibited (withdrawal feed), | 0,7 |
| | — other animal species. | 2,1 |
| | Premixtures for use in feed in which the use of salinomycin sodium is not authorised | ^b |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

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[^{F1}SECTION VII: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

| | | | |
|-----|---------------------|---|--------------|
| 11. | Semduramicin sodium | Feed materials | 0,25 |
| | | Compound feed for | |
| | | — laying birds and chickens reared for laying (> 16 weeks), | 0,25 |
| | | — chickens for fattening for the period before slaughter in which the use of semduramicin sodium is prohibited (withdrawal feed), | 0,25 |
| | | — other animal species. | 0,75 |
| | | Premixtures for use in feed in which the use of semduramicin sodium is not authorised. | ^b |

a Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 29).

b The maximum level of the substance in the premixture is the concentration which shall not result in a level of the substance higher than 50 % of the maximum levels established in the feed when the instructions for use of the premixture are followed.

Textual Amendments

F2 Inserted by [Commission Regulation \(EU\) No 574/2011 of 16 June 2011 amending Annex I to Directive 2002/32/EC of the European Parliament and of the Council as regards maximum levels for nitrite, melamine, Ambrosia spp. and carry-over of certain coccidiostats and histomonostats and consolidating Annexes I and II thereto \(Text with EEA relevance\).](#)

ANNEX II

ACTION THRESHOLDS TRIGGERING INVESTIGATIONS
BY MEMBER STATES, AS REFERRED TO IN ARTICLE 4(2)

SECTION: DIOXINS AND PCBs

| Undesirable substances | Products intended for animal feed | Action threshold in ng WHO-PCDD/ | Comments and additional |
|------------------------|-----------------------------------|----------------------------------|-------------------------|
|------------------------|-----------------------------------|----------------------------------|-------------------------|

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| | | F-TEQ/kg (ppt)^{b, c} relative to a feed with a moisture content of 12 % | information (e.g. nature of investigations to be performed) | |
|--|--|---|--|---|
| 1. | Dioxins (sum of polychlorinated dibenzo-para- dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs)) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO- TEFs (toxic equivalency factors, 1997 ^a) | Feed materials of plant origin | 0,5 | d |
| | | with the exception of: | | |
| | — vegetable oils and their by- products, | 0,5 | d | |
| | Feed materials of mineral origin | 0,5 | d | |
| | Feed materials of animal origin: | | | |
| | — Animal fat, including milk fat and egg fat, | 1,0 | d | |
| | — Other land animal products including milk and milk products and eggs and egg products. | 0,5 | d | |
| | — Fish oil | 5,0 | e | |
| — Fish, other aquatic animals, and products and by- products with the exception of fish oil and fish protein hydrolysates containing | 1,0 | e | | |

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| | | | | |
|----|--|--|------|---|
| | | more than 20 % fat ^c . | | |
| | | — Fish protein hydrolysates containing more than 20 % fat. | 1,75 | e |
| | | Feed additives belonging to the functional groups of binders and anti-caking agents. | 0,5 | e |
| | | Feed additives belonging to the functional group of compounds of trace elements | 0,5 | d |
| | | Premixtures | 0,5 | d |
| | | Compound feed | 0,5 | d |
| | | with the exception of: | | |
| | | — compound feed for pet animals and fish, | 1,75 | e |
| | | — compound feed for fur animals. | — | |
| 2. | Dioxin-like PCBs (sum of polychlorinated biphenyls (PCBs)) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency | Feed materials of plant origin | 0,35 | d |
| | | with the exception of: | | |
| | | — vegetable oils and their by-products, | 0,5 | d |
| | | Feed materials of mineral origin | 0,35 | d |
| | | Feed materials of animal origin: | | |
| | | — Animal fat, including | 0,75 | d |

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| | | | |
|---------------------------------|---|------|---|
| factors, 1997 ^a) | milk fat and egg fat, | | |
| — | Other land animal products including milk and milk products and eggs and egg products. | 0,35 | d |
| — | Fish oil | 14,0 | e |
| — | Fish, other aquatic animals, and products derived thereof with the exception of fish oil and fish protein hydrolysates containing more than 20 % fat ^c , | 2,5 | e |
| — | Fish protein hydrolysates containing more than 20 % fat. | 7,0 | e |
| | Feed additives belonging to the functional groups of binders and anti- caking agents. | 0,5 | d |
| | Feed additives belonging to the functional group of compounds of trace elements. | 0,35 | d |
| | Premixtures | 0,35 | d |
| | Compound feed | 0,5 | d |

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| with the exception of: | | | |
|------------------------|---|-----|---|
| — | compound feed for pet animals and fish, | 3,5 | e |
| — | compound feed for fur animals. | — | l |

a WHO-TEFs for human risk assessment based on the conclusions of the World Health Organisation meeting in Stockholm, Sweden, 1518 June 1997 (Van den Berg et al., (1998) Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

b Upper-bound concentrations; upper-bound concentrations are calculated on the assumption that all values of the different congeners below the limit of quantification are equal to the limit of quantification.

c The Commission will review these action levels at the same time as it reviews the maximum levels for the sum of dioxins and dioxin-like PCBs.

d Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.

e In many cases it might not be necessary to perform an investigation into the source of contamination as the background level in some areas is close to or above the action level. However, in cases where the action level is exceeded, all information, such as sampling period, geographical origin, fish species etc ..., must be recorded with a view to future measures to manage the presence of dioxins and dioxin-like compounds in these materials for animal nutrition.

| Congener | TEF value |
|---|-----------|
| Dibenzo-p-dioxins ('PCDDs') and dibenzofurans ('PCDFs') | |
| 2,3,7,8-TCDD | 1 |
| 1,2,3,7,8-PeCDD | 1 |
| 1,2,3,4,7,8-HxCDD | 0,1 |
| 1,2,3,6,7,8-HxCDD | 0,1 |
| 1,2,3,7,8,9-HxCDD | 0,1 |
| 1,2,3,4,6,7,8-HpCDD | 0,01 |
| OCDD | 0,0001 |
| 2,3,7,8-TCDF | 0,1 |
| 1,2,3,7,8-PeCDF | 0,05 |
| 2,3,4,7,8-PeCDF | 0,5 |
| 1,2,3,4,7,8-HxCDF | 0,1 |
| 1,2,3,6,7,8-HxCDF | 0,1 |
| 1,2,3,7,8,9-HxCDF | 0,1 |
| 2,3,4,6,7,8-HxCDF | 0,1 |
| 1,2,3,4,6,7,8-HpCDF | 0,01 |
| 1,2,3,4,7,8,9-HpCDF | 0,01 |
| OCDF | 0,0001 |
| 'Dioxin-like' PCBs Non-ortho PCBs + Mono-ortho PCBs | |

Abbreviations used: 'T' = tetra; 'Pe' = penta; 'Hx' = hexa; 'Hp' = hepta; 'O' = octa; 'CDD' = chlorodibenzodioxin; 'CDF' = chlorodibenzofuran; 'CB' = chlorobiphenyl.

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| Non-ortho PCBs | |
|-----------------|---------|
| PCB 77 | 0,0001 |
| PCB 81 | 0,0001 |
| PCB 126 | 0,1 |
| PCB 169 | 0,01 |
| Mono-ortho PCBs | |
| PCB 105 | 0,0001 |
| PCB 114 | 0,0005 |
| PCB 118 | 0,0001 |
| PCB 123 | 0,0001 |
| PCB 156 | 0,0005 |
| PCB 157 | 0,0005 |
| PCB 167 | 0,00001 |
| PCB 189 | 0,0001 |

Abbreviations used: 'T' = tetra; 'Pe' = penta; 'Hx' = hexa; 'Hp' = hepta; 'O' = octa; 'CDD' = chlorodibenzodioxin; 'CDF' = chlorodibenzofuran; 'CB' = chlorobiphenyl.

ANNEX III

CORRELATION TABLE

| Directive 1999/29/EC | This Directive |
|----------------------|----------------|
| Article 1 | Article 1 |
| Article 2(a) | Article 2(a) |
| Article 2(b) | Article 2(b) |
| Article 2(c) | Article 2(g) |
| Article 2(d) | Article 2(f) |
| Article 2(e) | Article 2(e) |
| Article 2(f) | Article 2(i) |
| Article 2(g) | Article 2(j) |
| Article 2(h) | — |
| — | Article 2(c) |
| — | Article 2(d) |
| — | Article 2(h) |
| — | Article 2(k) |
| — | Article 2(l) |
| Article 3 | Article 3 |

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| | |
|--------------|--------------|
| Article 4(1) | Article 4(1) |
| Article 4(2) | — |
| — | Article 4(2) |
| Article 5 | — |
| Article 6 | — |
| Article 7 | Article 5 |
| Article 8 | Article 6 |
| Article 9 | Article 7 |
| Article 10 | Article 8 |
| Article 11 | Article 9 |
| Article 12 | — |
| — | Article 10 |
| Article 13 | Article 11 |
| Article 14 | Article 12 |
| Article 15 | Article 13 |
| Article 16 | — |
| — | Article 14 |
| — | Article 15 |
| Article 17 | Article 16 |
| Article 18 | Article 17 |
| Annex I | Annex I |
| Annex II | — |
| Annex III | — |
| Annex IV | Annex II |