

ATODLEN 1

Rheoliad 2(2)

Y cofnodion sydd i'w hychwanegu yn Rhan B o Atodlen
4 i Reoliadau Bwydydd Anifeiliaid (Cymru) 2006

| <i>“Analytical constituents</i> | <i>Limits of variation (absolute value in percentage by weight, except where otherwise specified)</i> |
|---------------------------------|--|
| Moisture | If present in excess— 3 for declarations of 40% or more 7.5% of the amount stated for declarations of 20% or more but less than 40% 1.5 for declarations less than 20%” |

ATODLEN 2

RHAN 1Y cofnodion sydd i'w rhoi yn lle cofnodion neu sydd i'w hychwanegu ym
Mhennod A o Atodlen 5 i Reoliadau Bwydydd Anifeiliaid (Cymru) 2006

| <i>“Column 1: Undesirable substances</i> | <i>Column 2: Products intended for animal feed</i> | <i>Column 3: Maximum content in mg/kg of feeding stuffs referred to a moisture content of 12%</i> |
|--|--|---|
| Cadmium ⁽¹⁾ | Feed materials of vegetable origin | 1 |
| | Feed materials of animal origin | 2 |
| | Feed materials of mineral origin | 2 |
| | except: | |
| | — phosphates | 10 |
| | Additives belonging to the functional group of compounds of trace elements | 10 |
| | except: | |
| | — copper oxide, manganous oxide, zinc oxide and manganous sulphate monohydrate | 30 |
| | Additives belonging to the functional groups of binders and anti-caking agents | 2 |

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| <i>“Column 1: Undesirable substances</i> | <i>Column 2: Products intended for animal feed</i> | <i>Column 3: Maximum content in mg/kg of feeding stuffs referred to a moisture content of 12%</i> |
|--|---|---|
| | Premixtures | 15 |
| | Mineral feeding stuffs: | |
| | — containing less than 7% phosphorus | 5 |
| | — containing 7% or more phosphorus | 0.75 per 1% phosphorus, subject to a maximum of 7.5 |
| | Complementary feeding stuffs for pet animals | 2 |
| | Other complementary feeding stuffs | 0.5 |
| | Complete feeding stuffs for cattle, sheep and goats and feeding stuffs for fish | 1 |
| | except: | |
| | — complete feeding stuffs for pet animals | 2 |
| | — complete feeding stuffs for calves, lambs and kids, and other complete feeding stuffs | 0.5 |
| Dioxins (sum of polychlorinated dibenzo-para-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs))expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency factors) 1997 ⁽²⁾⁽³⁾ | Feed materials of plant origin with the exception of vegetable oils and their by-products | 0.75 ng WHO-PCDD/F-TEQ/kg |
| | Vegetable oils and their by-products | 0.75 ng WHO-PCDD/F-TEQ/kg |
| | Feed materials of mineral origin | 1.0 ng WHO-PCDD/F-TEQ/kg |
| | Animal fat, including milk fat and egg fat | 2.0 ng WHO-PCDD/F-TEQ/kg |
| | Other land animal products, including milk and milk products and eggs and egg products | 0.75 ng WHO-PCDD/F-TEQ/kg |
| | Fish oil | 6.0 ng WHO-PCDD/F-TEQ/kg |

| "Column 1: Undesirable substances | Column 2: Products intended for animal feed | Column 3: Maximum content in mg/kg of feeding stuffs referred to a moisture content of 12% |
|--|--|--|
| | Fish, other aquatic animals, their products and by-products, with the exception of fish oil and fish protein hydrolysates containing more than 20% fat ⁽⁴⁾ | 1.25 ng WHO-PCDD/F-TEQ/kg |
| | Fish protein hydrolysates containing more than 20% fat | 2.25 ng WHO-PCDD/F-TEQ/kg |
| | The 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 ng WHO-PCDD/F-TEQ/kg |
| | Additives belonging to the functional group of compounds of trace elements | 1.0 ng WHO-PCDD/F-TEQ/kg |
| | Premixtures | 1.0 ng WHO-PCDD/F-TEQ/kg |
| | Compound feeding stuffs, with the exception of feed for fur-producing animals, pet foods and feed for fish | 0.75 ng WHO-PCDD/F-TEQ/kg |
| | Feed for fish and pet foods | 2.25 ng WHO-PCDD/F-TEQ/kg |
| | | Note in respect of all entries in column 3: 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 |
| Sum of dioxins and dioxin-like PCBs (sum of polychlorinated dibenzo-para-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs)) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency factors) 1997 ⁽²⁾ | Feed materials of plant origin with the exception of vegetable oils and their by-products | 1.25 ng WHO-PCDD/F-PCB-TEQ/kg |

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| <i>“Column 1: Undesirable substances</i> | <i>Column 2: Products intended for animal feed</i> | <i>Column 3: Maximum content in mg/kg of feeding stuffs referred to a moisture content of 12%</i> |
|--|---|--|
| | Vegetable oils and their by-products | 1.5 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Feed materials of mineral origin | 1.5 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Animal fat, including milk fat and egg fat | 3.0 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Other land animal products, including milk and milk products and eggs and egg products | 1.25 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Fish oil | 24.0 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Fish, other aquatic animals, their products and by-products, with the exception of fish oil and fish protein hydrolysates containing more than 20% fat ⁽⁴⁾ | 4.5 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Fish protein hydrolysates containing more than 20% fat | 11.0 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Additives belonging to the functional groups of binders and anti-caking agents | 1.5 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Additives belonging to the functional group of compounds of trace elements | 1.5 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Premixtures | 1.5 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Compound feeding stuffs, with the exception of feed for fur-producing animals, pet foods and feed for fish | 1.5 ng WHO-PCDD/F-PCB-TEQ/kg |
| | Feed for fish and pet foods | 7.0 ng WHO-PCDD/F-PCB-TEQ/kg |
| | | Note in respect of all entries in column 3: 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 |

| <i>“Column 1: Undesirable substances</i> | <i>Column 2: Products intended for animal feed</i> | <i>Column 3: Maximum content in mg/kg of feeding stuffs referred to a moisture content of 12%</i> |
|--|--|---|
| Fluorine ⁽⁵⁾ | Feed materials | 150 |
| | except: | |
| | — feeding stuffs of animal origin other than marine crustaceans such as marine krill | 500 |
| | — marine crustaceans such as marine krill | 3,000 |
| | — phosphates | 2,000 |
| | — calcium carbonate | 350 |
| | — magnesium oxide | 600 |
| | — calcareous marine algae | 1,000 |
| | Vermiculite (E 561) | 3,000 |
| | Complementary feeding stuffs | |
| | — containing 4% phosphorus or less | 500 |
| | — containing more than 4% phosphorus | 125 per 1% phosphorus |
| | Complete feeding stuffs | 150 |
| | except: | |
| | — complete feeding stuffs for cattle, sheep and goats | |
| | — — in lactation | 30 |
| | — — other | 50 |
| — complete feeding stuffs for pigs | 100 | |
| — complete feeding stuffs for poultry | 350 | |
| — complete feeding stuffs for chicks | 250 | |
| Lead ⁽¹⁾ | Feed materials | 10 |
| | except: | |
| | — green fodder (including products such as hay, silage, fresh grass, etc) | 30 |

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|--|--|---|
| | — phosphates and calcareous marine algae | 15 |
| | — calcium carbonate | 20 |
| | — yeasts | 5 |
| | Additives belonging to the functional group of compounds of trace elements | 100 |
| | except: | |
| | — zinc oxide | 400 |
| | — manganous oxide, iron carbonate, copper carbonate | 200 |
| | Additives belonging to the functional groups of binders and anti-caking agents | 30 |
| | except: | |
| | —clinoptilolite of volcanic origin | 60 |
| | Premixtures | 200 |
| | Complementary feeding stuffs | 10 |
| | except: | |
| | — mineral feeding stuffs | 15 |
| | Complete feeding stuffs | 5” |

- (1) Maximum levels refer to an analytical determination of this substance, whereby extraction is performed in nitric acid (5% w/w) for 30 minutes at boiling temperature. Equivalent extraction procedures can be applied where it can be demonstrated that the procedure used has an equal extraction efficiency.
- (2) WHO-TEFs for human risk assessment based on the conclusions of the World Health Organisation meeting in Stockholm, Sweden, 15-18 June 1997 (Van den Berg et al., (1998), Toxic Equivalency Factors (TEFs) for PCBs, PCDDs and PCDFs for Humans and for Wildlife, Environmental Health Perspectives, 106(12), 775).
- (3) The separate maximum level for dioxins (PCDD/F) remains applicable for a temporary period. The products intended for animal feed mentioned in column 2 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.
- (4) Fresh fish directly delivered and used without intermediate processing for the production of feed for fur-producing animals is 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 used for the direct feeding of pet animals, zoo and circus animals. The products, processed animal proteins produced from these animals (fur-producing animals, pet animals and 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.
- (5) 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 where it can be demonstrated that the procedure used has an equal extraction efficiency.

RHAN 2Y cofnodion sydd i'w rhoi yn lle cofnodion ym Mhennod D
o Atodlen 5 i Reoliadau Bwydydd Anifeiliaid (Cymru) 2006

| <i>“Column 1: Undesirable substances</i> | <i>Column 2: Products intended for animal feed</i> | <i>Column 3: Maximum content in mg/kg of feeding stuffs referred to a moisture content of 12%</i> |
|---|--|---|
| Camphechlor (toxaphene) — sum of indicator congeners CHB 26, 50 and 62 ⁽¹⁾ | Fish, other aquatic animals, their products and by-products with the exception of fish oil | 0.02 |
| | Fish oil | 0.2 |
| | Feeding stuffs for fish | 0.05” |

(1) 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.