

Commission Directive 2006/13/EC of 3 February 2006 amending Annexes I and II to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed as regards dioxins and dioxin-like PCBs (Text with EEA relevance)

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ANNEX

(a) Point 27 in Annex I to Directive 2002/32/EC is replaced by the following:

Undesirable substances	Products intended for animal feed	Maximum content relative to a feedingstuff with a moisture content of 12 %
(1)	(2)	(3)
27a. 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 ^a)	(a) Feed materials of plant origin with the exception of vegetable oils and their by-products	0,75 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(b) Vegetable oils and their by-products	0,75 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(c) Feed materials of mineral origin	1,0 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(d) Animal fat, including milk fat and egg fat	2,0 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(e) Other land animal products including milk and milk products and eggs and egg products	0,75 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(f) Fish oil	6,0 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(g) Fish, other aquatic animals, their products and by-products with the exception of fish oil and fish protein hydrolysates containing more than 20 % fat ^d	1,25 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(h) Fish protein hydrolysates containing more than 20 % fat	2,25 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(i) The additives kaolinitic clay,	0,75 ng WHO-PCDD/F-TEQ/kg ^{bc}

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		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	
	(j)	Additives belonging to the functional group of compounds of trace elements	1,0 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(k)	Premixtures	1,0 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(l)	Compound feedingstuffs, with the exception of feed for fur animals, pet foods and feed for fish	0,75 ng WHO-PCDD/F-TEQ/kg ^{bc}
	(m)	Feed for fish. Pet foods	2,25 ng WHO-PCDD/F-TEQ/kg ^{bc}
27b.		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 (toxic equivalency factors, 1997 ^a)	
	(a)	Feed materials of plant origin with the exception of vegetable oils and their by-products	1,25 ng WHO-PCDD/F-PCB-TEQ/kg ^b
	(b)	Vegetable oils and their by-products	1,5 ng WHO-PCDD/F-PCB-TEQ/kg ^b
	(c)	Feed materials of mineral origin	1,5 ng WHO-PCDD/F-PCB-TEQ/kg ^b
	(d)	Animal fat, including milk fat and egg fat	3,0 ng WHO-PCDD/F-PCB-TEQ/kg ^b
	(e)	Other land animal products including milk and milk	1,25 ng WHO-PCDD/F-PCB-TEQ/kg ^b

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	products and eggs and egg products	
(f)	Fish oil	24,0 ng WHO-PCDD/F-PCB-TEQ/kg ^b
(g)	Fish, other aquatic animals, their products and by-products with the exception of fish oil and fish protein hydrolysates containing more than 20 % fat ^d	4,5 ng WHO-PCDD/F-PCB-TEQ/kg ^b
(h)	Fish protein hydrolysates containing more than 20 % fat	11,0 ng WHO-PCDD/F-PCB-TEQ/kg ^b
(i)	Additives belonging to the functional groups of binders and anti-caking agents	1,5 ng WHO-PCDD/F-PCB-TEQ/kg ^b
(j)	Additives belonging to the functional group of compounds of trace elements	1,5 ng WHO-PCDD/F-PCB-TEQ/kg ^b
(k)	Premixtures	1,5 ng WHO-PCDD/F-PCB-TEQ/kg ^b
(l)	Compound feedingstuffs, with the exception of feed for fur animals, pet foods and feed for fish	1,5 ng WHO-PCDD/F-PCB-TEQ/kg ^b
(m)	Feed for fish. Pet foods	7,0 ng WHO-PCDD/F-PCB-TEQ/kg ^b

^a 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).

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Congener	TEF value	Congener	TEF value
Dibenzo-p-dioxins (PCDDs)		"Dioxin-like" PCBs	
2,3,7,8-TCDD	1	Non-ortho PCBs + Mono-ortho PCBs	
1,2,3,7,8-PeCDD	1	Non-ortho PCBs	
1,2,3,4,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,6,7,8-HxCDD	0,1	PCB 81	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 126	0,1
1,2,3,4,6,7,8-HpCDD	0,01	PCB 169	0,01
OCDD	0,0001		
Dibenzofurans (PCDFs)		Mono-ortho PCBs	
2,3,7,8-TCDF	0,1	PCB 105	0,0001
1,2,3,7,8-PeCDF	0,05	PCB 114	0,0005
2,3,4,7,8-PeCDF	0,5	PCB 118	0,0001
1,2,3,4,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 156	0,0005
1,2,3,7,8,9-HxCDF	0,1	PCB 157	0,0005
2,3,4,6,7,8-HxCDF	0,1	PCB 167	0,00001
1,2,3,4,6,7,8-HpCDF	0,01	PCB 189	0,0001
1,2,3,4,7,8,9-HpCDF	0,01		
OCDF	0,0001		

Abbreviations used: "T" = tetra; "Pe" = penta; "Hx" = hexa; "Hp" = hepta; "O" = octa; "CDD" = chlorodibenzodioxin; "CDF" = chlorodibenzofuran; "CB" = chlorobiphenyl.

- 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 separate maximum level for dioxins (PCDD/F) remains applicable for a temporary period. The products intended for animal feed mentioned in point 27a 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.
- d** Fresh fish directly delivered and used without intermediate processing for the production of feed for fur 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 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.'