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)

ANNEX U.K.

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

Undesirable substances		Produ anima	cts intended for l feed	Maximum content relative to a feedingstuff with a moisture content of 12 %	
(1)		(2)		(3)	
ʻ27a.	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 ^{be}	
		(b)	Vegetable oils and their by-products	0,75 ng WHO-PCDD/F- TEQ/kg ^{be}	
		(c)	Feed materials of mineral origin	1,0 ng WHO-PCDD/F-TEQ/ kg ^{be}	
		(d)	Animal fat, including milk fat and egg fat	2,0 ng WHO-PCDD/F-TEQ/ kg ^{be}	
		(e)	Other land animal products including milk and milk products and eggs and egg products	0,75 ng WHO-PCDD/F- TEQ/kg ^{be}	
		(f)	Fish oil	6,0 ng WHO-PCDD/F-TEQ/ kg ^{be}	
		(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 ^{be}	
		(h)	Fish protein hydrolysates containing more than 20 % fat	2,25 ng WHO-PCDD/F- TEQ/kg ^{be}	
		(i)	The additives kaolinitic clay,	0,75 ng WHO-PCDD/F- TEQ/kg ^{bc}	

			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 ^{be}
		(k)	Premixtures	1,0 ng WHO-PCDD/F-TEQ/ kg ^{be}
		(1)	Compound feedingstuffs, with the exception of feed for fur animals, pet foods and feed for fish	0,75 ng WHO-PCDD/F- TEQ/kg ^{be}
		(m) Pet foods	Feed for fish.	2,25 ng WHO-PCDD/F- TEQ/kg ^{be}
27b.	Sum of dioxins and dioxin-like PCBs (sum of polychlorinated dibenzo- <i>para</i> -	(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
	dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs) and polychlorinated biphenyls (PCBs) avprassed in World	(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
	Health Organisation (WHO) toxic equivalents, using the WHO-TEFs	(d)	Animal fat, including milk fat and egg fat	3,0 ng WHO-PCDD/F-PCB- TEQ/kg ^b
	(toxic equivalency factors, 1997 ^a	(e)	Other land animal products including milk and milk	1,25 ng WHO-PCDD/F- PCB-TEQ/kg ^b

	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
(1)	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) Pet food	Feed for fish.	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).

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	New write DCDs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana-artha PCBs	
2,3,7,8-TCDF	0,1		
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCB 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.'

(b) Annex II to Directive 2002/32/EC is replaced by the following: U.K.

'Undesi substan	rable ces	Products for anim	s intended aal feed	Action threshold relative to a feedingstuff with a moisture content of 12 %	Comments and additional information (e.g. nature of investigations to be performed)
(1)		(2)		(3)	(4)
1.	Dioxins (sum of polychlorinat dibenzo- <i>para</i> dioxins (PCDDs), polychlorinat dibenzofuran (PCDFs)	(a) ed - ed s	Feed materials of plant origin with the exception of vegetable oils and their by- products	0,5 ng WHO-PCDD/ F-TEQ/kg ^{bc}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
	expressed in World Health Organisation (WHO) toxic equivalents, using the	(b)	Vegetable oils and their by- products	0,5 ng WHO-PCDD/ F-TEQ/kg ^{bc}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or

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		
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Maria autho PCPs	
2,3,7,8-TCDF	0,1	Mono-ortho PCBs	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCB 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

WHO- TEFs (toxic				eliminate source of contamination.
equivalency factors, 1997 ^a	(c)	Feed materials of mineral origin	0,5 ng WHO-PCDD/ F-TEQ/kg ^{bc}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
	(d)	Animal fat, including milk fat and egg fat	1,0 ng WHO-PCDD/ F-TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
	(e)	Other land animal products	0,5 ng WHO-PCDD/ F-TEQ/kg ^{bc}	Identification of source of contamination. Once source is identified,

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, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

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

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.

	including milk and milk products and eggs and egg products		take appropriate measures, where possible, to reduce or eliminate source of contamination.
(f)	Fish oil	5,0 ng WHO-PCDD/ F-TEQ/kg ^{be}	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., should be recorded

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, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

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-office PCD	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana antha BCBa	
2,3,7,8-TCDF	0,1	Mono-ortho PCBS	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0.0001
1,2,3,7,8,9-HxCDF	0,1	PCR 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

			with a view to future measures to manage the presence of dioxins and dioxin- like compounds in these materials for animal nutrition.
(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	1,0 ng WHO-PCDD/ F-TEQ/kg ^{be}	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

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, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

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 PCDs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana anthe BCBs	
2,3,7,8-TCDF	0,1	Mono-ortho PCBs	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCB 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

			with a view to future measures to manage the presence of dioxins and dioxin- like compounds in these materials for animal nutrition.
(h)	Fish protein hydrolysates containing more than 20 % fat	1,75 ng WHO- PCDD/F-TEQ/kg ^{be}	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

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, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

Congener	TEF value	Congener	TEF value
Dibenzo-p-dioxins (PCDDs) 2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD	1 1 0.1	"Dioxin-like" PCBs Non-ortho PCBs + Mono-ortho PCBs Non-ortho PCBs	
1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	0,1 0,1 0,01 0,0001	PCB 77 PCB 81 PCB 126 PCB 169	0,0001 0,0001 0,1 0,01
Dibenzofurans (PCDFs) 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 0,2,3,4,7,8,9-HpCDF	0,1 0,05 0,5 0,1 0,1 0,1 0,1 0,01 0,01 0	Mono-ortho PCBs PCB 105 PCB 114 PCB 118 PCB 123 PCB 156 PCB 157 PCB 167 PCB 189	0,0001 0,0005 0,0001 0,0001 0,0005 0,0005 0,00001 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.

			with a view to future measures to manage the presence of dioxins and dioxin- like compounds in these materials for animal nutrition.
(i)	Additives belonging to the functional groups of binders and anti-caking agents	0,5 ng WHO-PCDD/ F-TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
(j)	Additives belonging to the functional group of compounds	0,5 ng WHO-PCDD/ F-TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or

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, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

Congener	TEF value	Congener	TEF value
Dibenzo-p-dioxins (PCDDs) 2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD	1 1 0.1	"Dioxin-like" PCBs Non-ortho PCBs + Mono-ortho PCBs Non-ortho PCBs	
1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD	0,1 0,1 0,01 0,0001	PCB 77 PCB 81 PCB 126 PCB 169	0,0001 0,0001 0,1 0,01
Dibenzofurans (PCDFs) 2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 0,CDF	0,1 0,05 0,5 0,1 0,1 0,1 0,1 0,01 0,01 0	Mono-ortho PCBs PCB 105 PCB 114 PCB 118 PCB 123 PCB 156 PCB 157 PCB 167 PCB 189	0,0001 0,0005 0,0001 0,0001 0,0005 0,0005 0,00001 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.

	of trace elements		eliminate source of contamination.
(k)	Premixtures	0,5 ng WHO-PCDD/ F-TEQ/kg ^{bc}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
(1)	Compound feedingstuffs, with the exception of feedingstuffs for fur animals, pet foods and feedingstuffs for fish	0,5 ng WHO-PCDD/ F-TEQ/kg ^{bc}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.

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, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

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 DCDs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBS	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana artha PCRs	
2,3,7,8-TCDF	0,1	Mono-ormo P CDS	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0.0001
1,2,3,7,8,9-HxCDF	0,1	PCP 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	0,0001

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.

(m)	Feedingstuffs	1,75 ng WHO- PCDD/F-TEO/kg ^{be}	In many cases it might not be
	for fish.	1022/1122/118	necessary to perform
Pet foods			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.

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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 PCDs - Mono ortho PCDs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Marra ortho BCBs	
2,3,7,8-TCDF	0,1	Mono-oritio PCBs	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCB 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

2.	2. Dioxin like PCBs (sum of polychlorinat biphenyls (PCBs) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO- TEFs (toxic equivalency factors, 1997 ^a	(a) ed	Feed materials of plant origin with the exception of vegetable oils and their by- products	0,35 ng WHO-PCB- TEQ/kg ^{bc}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
		(b)	Vegetable oils and their by- products	0,5 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
		(c)	Feed materials of mineral origin	0,35 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate

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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	New earths BCBs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana artha DCBs	
2,3,7,8-TCDF	0,1	Mono-ortho PCBs	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCR 156	0,0005
2,3,4,6,7,8-HxCDF	0,1	100 100	0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

			measures, where possible, to reduce or eliminate source of contamination.
(d)	Animal fat, including milk fat and egg fat	0,75 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
(e)	Other land animal products including milk and milk products and eggs and egg products	0,35 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.

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	New ortho PCPs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBS	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana antha BCBs	
2,3,7,8-TCDF	0,1	Mono-ormo PCBS	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCB 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

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(f) Fish oil	TEQ/kg ^{bc}	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

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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 PCDs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBS	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana antha BCBs	
2,3,7,8-TCDF	0,1	Mono-ortho PCBS	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCR 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0.0001	PCB 189	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.

(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	2,5 ng WHO-PCB- TEQ/kg ^{bc}	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	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 PCDs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana antia BCBa	
2,3,7,8-TCDF	0,1	Mono-ortho PCBS	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0.0001
1,2,3,7,8,9-HxCDF	0,1	PCB 156	0.0005
2,3,4,6,7,8-HxCDF	0,1	FCB 190	0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

(h)	Fish protein hydrolysates containing more than 20 % fat	7,0 ng WHO-PCB- TEQ/kg ^{bc}	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.

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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 PCDs - Mono ortho PCDs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana anthe PCPs	
2,3,7,8-TCDF	0,1	Mono-ortho PCBS	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0.0001
1,2,3,7,8,9-HxCDF	0,1	PCP 154	0.0005
2,3,4,6,7,8-HxCDF	0,1	FCB 150	0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

(i)	Additives belonging to the functional groups of binders and anti-caking agents	0,5 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
(j)	Additives belonging to the functional group of compounds of trace elements	0,35 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
(k)	Premixtures	0,35 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where

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 PCPs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBs	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mana artha PCBs	
2,3,7,8-TCDF	0,1	Mono-ortico PCBs	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCR 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	0,0001

b Upper-bound concentrations; upper-bound concentrations are calculated on the assumption that all values of the different

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.

			possible, to reduce or eliminate source of contamination.
(1)	Compound feedingstuffs, with the exception of feedingstuffs for fur animals, pet foods and feedingstuffs for fish	0,5 ng WHO-PCB- TEQ/kg ^{be}	Identification of source of contamination. Once source is identified, take appropriate measures, where possible, to reduce or eliminate source of contamination.
(m) Pet food	Feedingstuffs for fish. ds	3,5 ng WHO-PCB- TEQ/kg ^{be}	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.

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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 PCPs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBS	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		More or the PCRs	
2,3,7,8-TCDF	0,1	Mono-ortico PCBs	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCR 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	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.

	However where the level is of all infor as samp geograp fish spect must be with a v measure the present dioxins like com these mata animal r	r, in cases he action exceeded, mation, such ling period, hical origin, bies etc., recorded iew to future s to manage ence of and dioxin- pounds in aterials for putrition.
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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, PCDFs for Humans and for Wildlife. Environmental Health Perspectives, 106(12), 775).

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	New orthe PCPs	
1,2,3,4,7,8-HxCDD	0,1	Non-ortho PCBS	
1,2,3,6,7,8-HxCDD	0,1	PCB 77	0,0001
1,2,3,7,8,9-HxCDD	0,1	PCB 81	0,0001
1,2,3,4,6,7,8-HpCDD	0,01	PCB 126	0,1
OCDD	0,0001	PCB 169	0,01
Dibenzofurans (PCDFs)		Mono ortho PCRs	
2,3,7,8-TCDF	0,1	Mono-ortho PCDs	
1,2,3,7,8-PeCDF	0,05	PCB 105	0,0001
2,3,4,7,8-PeCDF	0,5	PCB 114	0,0005
1,2,3,4,7,8-HxCDF	0,1	PCB 118	0,0001
1,2,3,6,7,8-HxCDF	0,1	PCB 123	0,0001
1,2,3,7,8,9-HxCDF	0,1	PCR 156	0.0005
2,3,4,6,7,8-HxCDF	0,1		0,0005
1,2,3,4,6,7,8-HpCDF	0,01	PCB 157	0,0005
1,2,3,4,7,8,9-HpCDF	0,01	PCB 167	0,00001
OCDF	0,0001	PCB 189	0,0001
			L

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.