## ANNEX I

Undesirable substances	Products intended for animal feed		
(1)	(2)		
[F51. Arsenic <sup>h</sup>	Feed materials with the exception of:	2	
	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 <sup>i</sup>	
	<ul><li>— phosphates and calcareous marine algae</li></ul>	10	
	— calcium carbonate	15	
	— magnesium oxide	20	
	<ul> <li>feedingstuffs obtained from the processing of fish or other marine animals</li> </ul>	15 <sup>i</sup>	

2.

Lead

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<ul> <li>seaweed</li> <li>meal</li> <li>and feed</li> <li>materials</li> <li>derived</li> <li>from</li> <li>seaweed</li> </ul>	40 <sup>i</sup>
Complete feedingstuffs with the exception of:	2
<ul> <li>complete         feedingstuffs         for fish and         complete         feedingstuffs         for fur         animals</li> </ul>	6 <sup>i</sup>
Complementary feedingstuffs with the exception of:	4
— mineral feedingstuffs	12
Feed materials with the exception of:	10
— green fodder <sup>j</sup>	40
<ul><li>— phosphates and calcareous marine algae</li></ul>	15
— calcium carbonate	20
— yeasts	5
Complete feedingstuffs	5
Complementary feedingstuffs with the exception of:	10

	_	mineral feedingstuffs	15
3. Fluorine		nterials with ption of:	150
		feedingstuffs of animal origin with the exception of marine crustaceans such as marine krill	500
	_	phosphates and marine crustaceans such as marine krill	2 000
	_	calcium carbonate	350
	_	magnesium oxide	600
	_	calcareous marine algae	1 000
	Complete feedings exception	stuffs with the	150
	_	complete feedingstuffs for cattle, sheep and goats	
	_	in lactation	30
		other	50
		complete feedingstuffs for pigs	100

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	<ul><li>complete feedingstuffs for poultry</li></ul>	350
	<ul><li>complete feedingstuffs for chicks</li></ul>	250
	[F6Complementary feedingstuffs containing ≤ 4 % phosphorus]	[F6500]
	[F6Complementary feedingstuffs containing > 4 % phosphorus]	[F6125 per 1 % phosphorus]]
[F64. Mercury	Feed materials with the exception of:	
	<ul> <li>feedingstuffs produced by the processing of fish or other marine animals</li> </ul>	0,5
	<ul><li>calcium</li><li>carbonate</li></ul>	0,3
	Complete feedingstuffs with the exception of:	0,1
	<ul> <li>complete feedingstuffs for dogs and cats</li> </ul>	0,4
	Complementary feedingstuffs except — complementa feedingstuffs for dogs and cats	0,2] ry
5. Nitrites	Fish meal	60 (expressed as sodium nitrite)

	Complete feedingstuffs	15 (expressed as sodium nitrite)
	excluding:  — feedingstuffs intended for pets except birds and aquarium fish	
6. Cadmium	Feed materials of vegetable origin	1
	Feed materials of animal origin, except:	2
	— feedingstuffs for pets	
	Phosphates	10 °
	Complete feedingstuffs for cattle sheep and goats except:	1
	— complete feedingstuffs for calves, lambs and kids	
	Other complete feedingstuffs except:	0,5
	— feedingstuffs for pets	
	Mineral feedingstuffs	5 <sup>d</sup>
	Other complementary feedingstuffs for cattle, sheep and goats	0,5
I <sup>F5</sup> 7. Aflatoxin B1	All feed materials	0,02
[ 7. Princoxiii B1	Complete feedingstuffs for cattle, sheep and goats with the exception of:	0,02
	<ul><li>complete feedingstuffs for dairy animals</li></ul>	0,005
	— complete feedingstuffs	0,01

	for calves and lambs	
	Complete feedingstuffs for pigs and poultry (except young animals)	0,02
	Other complete feedingstuffs	0,01
	Complementary feedingstuffs for cattle, sheep and goats (except complementary feedingstuffs for dairy animals, calves and lambs)	0,02
	Complementary feedingstuffs for pigs and poultry (except young animals)	0,02
	Other complementary feedingstuffs	0,005]
8. Hydrocyanic acid	Feed materials with the exception of:	50
	— linseed	250
	— linseed cakes	350
	— manioc products and almond cakes	100
	Complete feedingstuffs with the exception of:	50
	— complete feedingstuffs for chicks	10
[F59. Free gossypol	Feed materials with the exception of:	20
	— cottonseed	5 000
	<ul><li>cottonseed cakes and cottonseed meal</li></ul>	1 200

	Complete feedingstuffs with the exception of:	20
	<ul> <li>complete feedingstuffs for cattle, sheep and goats</li> </ul>	500
	<ul> <li>complete feedingstuffs for poultry (except laying hens) and calves</li> </ul>	100
	<ul> <li>complete feedingstuffs for rabbits and pigs (except piglets)</li> </ul>	60]
10. Theobromine	Complete feedingstuffs with the exception of:	300
	— complete feedingstuffs for adult cattle	700
11. Volatile mustard oil	Feed materials with the exception of:	100
	— rapeseed cakes	4 000(expressed as allyl isothiocyanate)
	Complete feedingstuffs with the exception of:	150 (expressed as allyl isothiocyanate)
	— complete feedingstuffs for cattle, sheep and goats (except young animals)	1 000(expressed as allyl isothiocyanate)
	— complete feedingstuffs for pigs (except piglets) and poultry	500 (expressed as allyl isothiocyanate)
12. Vinal thiooxazolidone (Vinyloxazolidine thione)	Complete feedingstuffs for	1 000

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			poultry with the exception of:	
			— complete feedingstuffs for laying hens	500
13. Rye	ergot (Clavice)	os purpurea)	All feedingstuffs containing unground cereals	1 000
fruits co	ntaining alkalo	ground and uncrushed pids, glucosides or separately or in	All feedingstuffs	3 000
(a)Loliu	m temulentumI	,		1 000
(b)Loliu	m remotumSch	rank,		1 000
(c)Danta	ura stramoniun	nL.		1 000
15. Castor oil plant — Ricinus communis L.		All feedingstuffs	10 (expressed in terms of castor-oil plants husks)	
16. <i>Crot</i>	ʻalaria spp.		All feedingstuffs	100
	17. Aldrin singly or combined expressed as dieldrin		All feedingstuffs with the exception of: — fats	0,01 0,2
19. Cam	phechlor (toxa	phene)	All feedingstuffs	0,1
		cis- and transisomers xpressed as chlordane)	All feedingstuffs with the exception of:	0,02
			— fats	0,05
21. DDT (sum of DDT-, TDE- and DDE-isomers, expressed as DDT)		All feedingstuffs with the exception of:	0,05	
			— fats	0,5
Endosulfan (sun and beta-isomers endosulfansulph endosulfan)			All feedingstuffs with the exception of:	0,1
		lphate expressed as	maize and products derived from the processing thereof	0,2
			<ul> <li>oilseeds and products derived from the</li> </ul>	0,5

	processing thereof	
	<ul><li>complete feedingstuffs for fish</li></ul>	0,005]
23. Endrin (sum of endrin and of delta-ketoi- endrin, expressed as endrin)	All feedingstuffs with the exception of:	0,01
	— fats	0,05
24. Heptachlor (sum of heptachlor and of heptachlorepoxide, expressed as heptachlor)	All feedingstuffs with the exception of:	0,01
	— fats	0,2
25. Hexachlorobenzene (HCB)	All feedingstuffs with the exception of:	0,01
	— fats	0,2
26. Hexachlorocyclo-hexane (HCH)		
26.1 alpha-isomers	All feedingstuffs with the exception of:	0,02
	— fats	0,2
26.2 beta-isomers	Compound feedingstuffs with the exception of:	0,01
	— feedingstuffs for dairy cattle	0,005
	Feed materials with the exception of:	0,01
	— fats	0,1
26.3 gamma-isomers	All feedingstuffs with the exception of:	0,2
	— fats	2,0
I <sup>F2</sup> 27. Dioxin (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))	(a) All feed materials of plant origin including vegetable oils and byproducts	0,75 ng WHO- PCDD/F-TEQ/kg <sup>ef</sup>
	(b) Minerals in the meaning of the Annex to Council	1,0 ng WHO-PCDD/ F-TEQ/kg <sup>ef</sup>

	Directive 96/25/EC of 29 April 1996 on the circulation and use of feed materials	
(c)	Kaolinitic clay, calcium sulphate dihydrate, vermiculite, natrolite-phonolite, synthetic calcium aluminates and clinoptilolite of sedimentary origin belonging to the group 'binders, anti-caking agents and coagulants' authorised under Council Directive 70/524/EEC	0,75 ng WHO-PCDD/F-TEQ/kg <sup>ef</sup>
(d)	Animal fat, including milk fat and egg fat	2,0 ng WHO-PCDD/ F-TEQ/kg <sup>ef</sup>
(e)	Other land animal products including milk and milk products and eggs and egg products	0,75 ng WHO- PCDD/F-TEQ/kg <sup>ef</sup>

	(f)	Fish oil	6 ng WHO-PCDD/F- TEQ/kg <sup>ef</sup>
	(g)	Fish, other aquatic animals, their products and byproducts with the exception of fish oil and fish protein hydrolysates containing more than 20 % fat <sup>g</sup>	1,25 ng WHO-PCDD/F-TEQ/kg <sup>ef</sup>
	(h)	Compound feedingstuffs, with the exception of feedingstuffs for fur animals, pet foods and feedingstuffs for fish	0,75 ng WHO- PCDD/F-TEQ/kg <sup>ef</sup>
	(i) Pet foods	Feedingstuffs for fish.	2,25 ng WHO- PCDD/F-TEQ/kg <sup>ef</sup>
	(j)	Fish protein hydrolysates containing more than 20 % fat	2,25 ng WHO-PCDD/F-TEQ/kg] <sup>ef</sup>
28. Apricots — Prunus armeniaca L.  29. Bitter almond — Prunus dulcis (Mill.) D.A. Webb var. amara (DC.) Focke (= Prunus amygdalus Batsch var. amara (DC.) Focke)  30. Unhusked beech mast — Fagus silvatica L.  31. Camelina — Camelina sativa (L.) Crantz  32. Mowrah, Bassia, Madhuca — Madhuca longifolia (L.) Macbr. (= Bassia	All feedi	ngstuffs	Seeds and fruit of the plant species listed opposite as well as their processed derivates may only be present in feedingstuffs in trace amounts not quantitatively determinable

longifolia L. = Illiped malabrorum Engl.) Madhuca indica Gmelin (= Bassia latifolia Roxb.) = Illipe latifolia (Roscb.) F. Mueller)

- 33. Purghera Jatropha curcas L.
- 34. Croton Croton tiglium L.
- 35. Indian mustard *Brassica juncea* (L.) Czern. And Coss. ssp. *intergrifolia* (West.) Thell
- 36. Sareptian mustard *Brassica juncea*
- (L.) Czern. And Coss. ssp. juncea
- 37. Chinese mustard *Brassica juncea* (L.) Czern. And Coss. ssp. *juncea* var. *lutea* Batalin
- 38. Black mustard *Brassica nigra* (L.) Koch
- 39. Ethiopian mustard *Brassica carinata* A. Braun
- a [F1]
- b <sup>F1</sup>]
- c Member States may also prescribe a maximum cadmium content of 0,5 mg per 1 % phosphorus.
- d Member States may also prescribe a maximum cadmium content of 0,75 mg per 1 % phosphorus.
- e [F2Upper-bound concentrations; upper-bound concentrations are calculated assuming that all values of the different congeners less than the limit of quantification are equal to the limit of quantification.
- f These maximum limits shall be reviewed for the first time before 31 December 2004 in the light of new data on the presence of dioxins and dioxin-like PCBs, in particular with a view to the inclusion of dioxin-like PCBs in the levels to be set and will be further reviewed before 31 December 2006 with the aim of significantly reducing of the maximum levels.
- Fresh fish directly delivered and used without intermediate processing for the production of feedingstuffs for fur animals is exempted from the maximum limit and a maximum level of 4,0 ng WHO-PCDD/F-TEQ/kg product is 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 the feeding thereof is prohibited to farmed animals which are kept, fattened or bred for the production of food.]
- **h** [F3The maximum levels refer to total arsenic.
- i 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.]
- **j** [F4Green fodder includes products intended for animal feed such as hay, silage, fresh grass, etc ...]

## **Textual Amendments**

- **F1** Deleted by Commission Directive 2005/8/EC of 27 January 2005 amending Annex I to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed (Text with EEA relevance).
- **F2** Substituted by Commission Directive 2003/57/EC of 17 June 2003 amending Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed (Text with EEA relevance).

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- **F3** Inserted by Commission Directive 2003/100/EC of 31 October 2003 amending Annex I to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed (Text with EEA relevance).
- **F4** Inserted by Commission Directive 2005/8/EC of 27 January 2005 amending Annex I to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed (Text with EEA relevance).
- **F5** Substituted by Commission Directive 2003/100/EC of 31 October 2003 amending Annex I to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed (Text with EEA relevance).
- **F6** Substituted by Commission Directive 2005/8/EC of 27 January 2005 amending Annex I to Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed (Text with EEA relevance).