[F1SCHEDULE 1

Regulation 12

Specified Provisions of Regulation 767/2009

Textual Amendments

F1 Sch. 1 substituted (31.12.2020) by The Animal Feed (Amendment) (EU Exit) Regulations 2019 (S.I. 2019/654), regs. 1, 7, **Sch.**; 2020 c. 1, Sch. 5 para. 1(1)

Table 1

Specified provision	***Subject matter***
Article 4(1) and (2), as read with Article 4(3) and Annex 1	General safety and other requirements to be met when feed is placed on the market or used.
Article 5(1)	Extension of requirements in relation to feed for food-producing animals in other legislation to apply to feed for non food-producing animals.
Article 5(2), as read with Article 12(1), (2) and (3)	Obligation on person responsible for labelling to make information available to competent authority.
Article 6(1), as read with Annex 3	Prohibition or restriction on the marketing or use of certain materials for animal nutritional purposes
Article 8	Controls on the levels of additives in feeds.
Article 9	Controls on the marketing of feeds for particular nutritional purposes.
Article 11, as read with Article 12(1), (2) and (3), Annexes 2 and 4 and the Catalogue of feed materials	Rules and principles governing the labelling and presentation of feed.
Article 12(4) and (5)	Designation of the person responsible for labelling and the obligations and responsibilities of that person.
Article 13(1), as read with Article 12(1), (2) and (3)	General conditions on making a claim about the characteristics or functions of a feed on the labelling or presentation of it.
Article 13(2) and (3), as read with Article 12(1), (2) and (3)	Special conditions applying to claims concerning optimisation of the nutrition and support or protection of the physiological conditions.
Article 14(1) and (2), as read with Article 12(1), (2) and (3)	Requirements for the presentation of the mandatory labelling particulars.
Article 15, as read with Articles 12(1), (2) and (3) and 21 and with Annex 6 and 7	General mandatory labelling requirements for feed materials and compound feeds.

Article 16, as read with Article 12(1), (2) and (3) and 21 and with Annex 2 and 5 and the Catalogue of feed materials	Specific labelling requirements for feed materials
Article 17(1) and (2) as read with Articles 12(1), (2) and (3) and 21 and with Annex 2, 6 & 7	Specific labelling requirements for compound feeds.
Article 18, as read with Article 12(1), (2) and (3)	Additional labelling requirements for feed for particular nutritional purposes (dietetic feeds).
Article 19, as read with Article 12(1), (2) and (3)	Additional labelling requirements for pet food.
Article 20(1) as read with Article 12(1), (2) and (3) and with Annex 8	Additional requirements for labelling of non-compliant feed, such as that containing contaminated materials.
Article 23	Requirements relating to the packaging and sealing of feed materials and compound feeds for placing on the market.
Article 24(2)	Requirement that if the name of a feed material listed in the Catalogue of feed materials is used, all relevant provisions of the Catalogue must be complied with.
Article 24(3)	Obligation on a person who first places on the market a feed material not listed in the Catalogue of feed materials to notify its use.**]**

SCHEDULE 2

Regulation 21

Revocations

Commencement Information

I1 Sch. 2 in force at 6.4.2015, see **reg. 1**

Regulations	*Extent*
The Genetically Modified Animal Feed (England) Regulations 2004 (S.I. 2004/2334)	The whole Regulations
The Feed (Corn Gluten Feed and Brewers Grains) (Emergency Control) (England) (Revocation) Regulations 2007 (S.I. 2007/3007)	The whole Regulations
The Animal Feed (England) Regulations 2010 (S.I. 2010/2503)	The whole Regulations other than regulations 1, 2 and 14.

[F2SCHEDULE 3

Regulation 12(2)

Categories of feed materials which may be indicated in place of individual feed materials

Textual Amendments

F2 Schs. 3-5 inserted (31.12.2022) by The Food and Feed (Miscellaneous Amendments) Regulations 2022 (S.I. 2022/1351), reg. 1(1), **Sch. 3**

Description of the category	***Definition***
1.Meat and animal derivatives	All the fleshy parts of slaughtered warm-blooded land animals, fresh or preserved by appropriate treatment, and all products and derivatives of the processing of the carcase or parts of the carcase of warm-blooded land animals
2.Milk and milk derivatives	All milk products, fresh or preserved by appropriate treatment, and derivatives from their processing
3.Eggs and egg derivatives	All egg products fresh or preserved by appropriate treatment and derivatives from their processing
4.Oils and fats	All animal and vegetable oils and fats
5.Yeasts	All yeasts, the cells of which have been killed and dried
6.Fish and fish derivatives	Fish or parts of fish, fresh or preserved by appropriate treatment, and derivatives from their processing
7.Cereals	All types of cereal, regardless of their presentation, or products made from the starchy endosperm
8.Vegetables	All types of vegetables and legumes, fresh or preserved by appropriate treatment
9.Derivatives of vegetable origin	Derivatives resulting from the treatment of vegetable products, in particular cereals, vegetables, legumes and oil seeds
10.Vegetable protein extracts	All products of vegetable origin in which the proteins have been concentrated by an adequate process to contain at least 50% crude protein, as related to the dry matter, and which may be restructured (textured)
11.Minerals	All inorganic substances suitable for animal feed
12.Various sugars	All types of sugar

Description of the category	*Definition*
13.Fruit	All types of fruit, fresh or preserved by appropriate treatment
14.Nuts	All kernels from shells
15.Seeds	All types of seeds as such or roughly crushed
16.Algae	Algae, fresh or preserved by appropriate treatment
17.Molluscs and crustaceans	All types of molluscs, crustaceans, shellfish, fresh or preserved by appropriate treatment, and their processing derivatives
18.Insects	All types of insects and their stages of development
19.Bakery products	All bread, cakes, biscuits and pasta products]

[F2SCHEDULE 4

Regulations 15 and 15A

Maximum levels of undesirable substances

Modifications etc. (not altering text)

C1 Sch. 4 applied in part (with modifications) (N.I.) (1.10.2023) by The Windsor Framework (Retail Movement Scheme: Public Health, Marketing and Organic Product Standards and Miscellaneous Provisions) Regulations 2023 (S.I. 2023/959), regs. 1(2), 4(b), **Sch. 2** (with regs. 7, 8)

Table 1: 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 (1)	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
	— peat; leonardite;	5
	— phosphates, calcareous marine algae;	10

Undesirable substance	***Products intended for animal feed***	***Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %***
	— calcium carbonate; calcium and magnesium carbonate [(2)]; calcareous marine shells;	15
	— magnesium oxide; magnesium carbonate;	20
	— fish, other aquatic animals and products derived from them;	25
	— seaweed meal and feed materials derived from seaweed.	40
	Iron particles used as tracer.	50
	Feed additives belonging to the functional group of compounds of trace elements	30
	with the exception of:	
	— cupric sulphate pentahydrate; cupric carbonate; dicopper chloride trihydroxide; ferrous carbonate; dimanganese chloride trihydroxide	50
	— zinc oxide; manganous oxide; cupric oxide.	100
	Complementary feed	4
	with the exception of:	
	— mineral feed;	12
	— complementary feed for pet animals containing fish, other aquatic animals and products derived from them and/or seaweed meal and feed materials derived from seaweed;	10
	— long-term supply formulations of feed for particular nutritional purposes with a concentration of trace elements higher than 100 times the established maximum content in complete feed;	30
	Complete feed	2
	with the exception of:	

Undesirable substance	*Products intended for animal feed*	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	— complete feed for fish and fur animals;	10
	— complete feed for pet animals containing fish, other aquatic animals and products derived from them and/or seaweed meal and feed materials derived from seaweed.	10
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 manganous sulphate monohydrate.	30
	Feed additives belonging to the functional groups of binders and anti-caking agents	2
	Premixtures [(3)]	15
	Complementary feed	0.5
	with the exception of:	
	— mineral feed	
	– – containing < 7 % phosphorus [(4)]	5
	– – containing ≥ 7 % phosphorus [(4)]	0.75 per 1 % phosphorus[(4)], with a maximum of 7.5
	— complementary feed for pet animals	2
	— long-term supply formulations of feed for particular nutritional purposes with a concentration of trace	15

Undesirable substance	***Products intended for animal feed***	***Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %***
	elements higher than 100 times the established maximum content in complete feed;	
	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 [(5)]	Feed materials	150
	with the exception of:	
	— feed materials of animal origin except marine crustaceans such as marine krill; calcareous marine shells;	500
	— marine crustaceans such as marine krill;	3 000
	— phosphates;	2 000
	— calcium carbonate; calcium and magnesium carbonate [(2)]	350
	— magnesium oxide;	600
	— calcareous marine algae.	1 250
	Vermiculite (E 561).	3 000
	Complementary feed:	
	— containing ≤ 4 % phosphorus[(4)];	500
	— containing > 4 % phosphorus[(4)].	125 per 1 % phosphorus[(4)]
	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

Undesirable substance	*Products intended for animal feed*	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	— complete feed for cattle, sheep and goats	
	– – in lactation;	30
	– – other.	50
4. Lead [6]	Feed materials	10
	with the exception of:	
	— forage [7];	30
	— phosphates, calcareous marine algae and calcareous marine shells;	15
	— calcium carbonate; calcium and magnesium carbonate [2];	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, copper (I) oxide.	200
	Feed additives belonging to the functional groups of binders and anti-caking agents	30
	with the exception of:	
	— clinoptilolite of volcanic origin; natrolite-phonolite.	60
	Premixtures [3]	200
	Complementary feed	10
	with the exception of:	
	— mineral feed;	15
	— long-term supply formulations of feed for particular nutritional purposes with a concentration of trace elements higher than 100 times the established maximum content in complete feed.	60

Undesirable substance	***Products intended for animal feed***	***Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %***
	Complete feed.	5
5. Mercury [8]	Feed materials	0.1
	with the exception of:	
	— fish, other aquatic animals and products derived from them intended for the production of compound feed for food producing animals;	0.5
	— fish, other aquatic animals and products derived from them intended for the production of compound feed for dogs, cats, ornamental fish and fur animals;	1.0 [9]
	— fish, other aquatic animals and products derived from them as canned wet feed material for direct feeding of dogs and cats;	0.3
	— calcium carbonate; calcium and magnesium carbonate [2].	0.3
	Compound feed	0.1
	with the exception of:	
	— mineral feed;	0.2
	— compound feed for fish;	0.2
	— compound feed for dogs, cats, ornamental fish and fur animals.	0.3
6. Nitrite [10]	Feed materials	15
	with the exception of:	
	— fishmeal;	30
	— silage;	—
	— products and by-products from sugar beet and sugarcane and from starch and alcoholic drink production.	—
	Complete feed	15
	with the exception of:	

Undesirable substance	*Products intended for animal feed*	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	— complete feed for dogs and cats with a moisture content exceeding 20 %.	—
7. Melamine [11]	Feed	2.5
	with the exception of:	
	— canned pet food	2.5 [12]
	— the following feed additives:	
	— guanidino acetic acid (GAA);	20
	— urea;	—
	— biuret.	—

(1) The maximum levels refer to total arsenic.

(2) Calcium and magnesium carbonate refers to the natural mixture of calcium carbonate and magnesium carbonate as described in Commission Regulation (EU) No 68/2013 on the Catalogue of feed materials.

(3) 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 on additives for use in animal nutrition, 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 of the premixture are in accordance with the maximum levels for complementary and complete feed.

(4) The % of phosphorus is relative to a feed with a moisture content of 12 %.

(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 for which it can be demonstrated that the used extraction procedure has an equal extraction efficiency.

(6) For the determination of lead in kaolinitic clay and in feed containing kaolinitic clay, the maximum level refers to an analytical determination of lead, whereby extraction is performed in nitric acid (5 % w/w) for 30 minutes at boiling temperature. Equivalent extraction procedures can be applied for which it can be demonstrated that the used extraction procedure has an equal extraction efficiency.

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

(8) The maximum levels refer to total mercury.

(9) The maximum level is applicable on wet weight basis.

(10) The maximum levels are expressed as sodium nitrite.

(11) 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.

(12) The maximum level is applicable to canned pet food as sold.

Table 2: 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 B1	Feed materials	0.02
	Complementary and complete feed	0.01

Undesirable substance	*Products intended for animal feed*	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	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 (Claviceps purpurea)	Feed materials and compound feed containing unground cereals.	1 000

Table 3: 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
	with the exception of:	
	— cottonseed,	6 000
	— 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

(1) The maximum levels are expressed as allyl isothiocyanate.

(2) Upon request of the competent authorities, the responsible operator must perform an analysis to demonstrate that the content of total glucosinolates is lower than 30 mmol/kg. The method of analysis of reference is EN-ISO 9167:2019 (Rapeseed and rapeseed meals — Determination of glucosinolates content — Method using high-performance liquid chromatography); published by the International Organization for Standardization in May 2019, edition 1. Available from the ISO website https://www.iso.org.

Undesirable substance	***Products intended for animal feed***	***Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %***
	— complete feed for rabbits, lambs, kids and pigs (except piglets).	60
2. Hydrocyanic acid	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
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 thiooxazolidone (5-vinyloxazolidine-2-thione)	Complete feed for poultry	1 000
	with the exception of:	
	— complete feed for laying hens.	500
5. Volatile mustard oil[(1)]	Feed materials	100
	with the exception of:	
	— Camelina seed and products derived from it [(2)], products derived from mustard seed[(2)], rape seed and products derived from them.	4 000
	Complete feed	150
	with the exception of:	

(1) The maximum levels are expressed as allyl isothiocyanate.

(2) Upon request of the competent authorities, the responsible operator must perform an analysis to demonstrate that the content of total glucosinolates is lower than 30 mmol/kg. The method of analysis of reference is EN-ISO 9167:2019 (Rapeseed and rapeseed meals — Determination of glucosinolates content — Method using high-performance liquid chromatography); published by the International Organization for Standardization in May 2019, edition 1. Available from the ISO website https://www.iso.org.

Undesirable substance	*Products intended for animal feed*	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	— complete feed for cattle (except calves), sheep (except lambs) and goats (except kids);	1 000
	— complete feed for pigs (except piglets) and poultry.	500

(1) The maximum levels are expressed as allyl isothiocyanate.

(2) Upon request of the competent authorities, the responsible operator must perform an analysis to demonstrate that the content of total glucosinolates is lower than 30 mmol/kg. The method of analysis of reference is EN-ISO 9167:2019 (Rapeseed and rapeseed meals — Determination of glucosinolates content — Method using high-performance liquid chromatography); published by the International Organization for Standardization in May 2019, edition 1. Available from the ISO website https://www.iso.org.

Table 4: 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[(1)]	Feed materials and compound feed	0.01[(2)]
	with the exception of:	
	— fats and oils,	0.1[(2)]
	— compound feed for fish.	0.02[(2)]
2. Dieldrin [(1)]	Feed materials and compound feed	0.01[(2)]
	with the exception of:	
	— fats and oils,	0.1[(2)]
	— compound feed for fish.	0.02 [(2)]
3. Camphechlor (toxaphene) – sum of indicator congeners CHB 26, 50 and 62[(3)]	Fish, other aquatic animals and products derived from them	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	Feed materials and compound feed	0.02

(1) Singly or combined expressed as dieldrin.

(2) Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

(3) 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.

Undesirable substance	***Products intended for animal feed***	***Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %***
oxychlordane, expressed as chlordane)		
	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:	
	— cotton seed and products derived from its processing, except crude cotton seed oil	0.3
	— soybean and products derived from its processing, except crude soybean oil	0.5
	— crude vegetable oil	1.0
	— complete feed for fish except for *Salmonids*	0.005
	— complete feed for *Salmonids*	0.05
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 heptachlorepoxide, expressed as heptachlor)	Feed materials and compound feed	0.01

(1) Singly or combined expressed as dieldrin.

(2) Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

(3) 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.

Undesirable substance	*Products intended for animal feed*	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	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. Hexachlorocyclo- hexane (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
— gamma-isomers	Feed materials and compound feed	0.2
	with the exception of:	
	— fats and oils.	2.0

(1) Singly or combined expressed as dieldrin.

(2) Maximum level for aldrin and dieldrin, singly or combined, expressed as dieldrin.

(3) 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.

Table 5 (Part 1): DIOXINS AND PCBs

Undesirable substance	**Products intended for animal feed**	**Maximum content in ng WHO-PCDD/F-TEQ/kg (ppt) [1] relative to a feed with a moisture content of 12 %**
1. Dioxins (sum of polychlorinated dibenzo-para-	Feed materials of plant origin	0.75

Undesirable substance	Products intended for animal feed	Maximum content in ng WHO-PCDD/F-TEQ/kg (ppt) [1] relative to a feed with a moisture content of 12 %
dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) expressed in World Health Organisation (WHO) toxic equivalents, using the WHO-TEFs (toxic equivalency factors, 2005) [2])		
	with the exception of:	
	— vegetable oils and their by-products.	0.75
	Feed materials of mineral origin	0.75
	Feed materials of animal origin:	
	— Animal fat, including milk fat and egg fat,	1.50
	— Other land animal products including milk and milk products and eggs and egg products.	0.75
	— Fish oil,	5.0
	— Fish, other aquatic animals, and products derived from them with the exception of fish oil, hydrolysed fish protein containing more than 20 % fat [3] and crustacea meal,	1.25
	— Hydrolysed fish protein containing more than 20 % fat; crustacea meal.	1.75
	Feed additives belonging to the functional groups of binders and anti-caking agents [4]	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,	1.75

Undesirable substance	**Products intended for animal feed**	**Maximum content in ng WHO-PCDD/F-TEQ/kg (ppt) [1] relative to a feed with a moisture content of 12 %**
	— compound feed for fur animals.	—
Undesirable substance	Products intended for animal feed	Maximum content in ng WHO-PCDD/F-PCB-TEQ/kg (ppt)[1] relative to a feed with a moisture content of 12 %
2. 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), 2005[2])	Feed materials of plant origin	1.25
	with the exception of:	
	— vegetable oils and their by-products	1.5
	Feed materials of mineral origin	1.0
	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	1.25
	— Fish oil	20.0
	— Fish, other aquatic animals, and products derived from them with the exception of fish oil and fish protein, hydrolysed, containing more than 20 % fat[3]	4.0
	— Fish protein, hydrolysed, containing more than 20 % fat	9.0
	Feed additives belonging to the functional groups of binders and anti-caking agents[4]	1.5

Undesirable substance	**Products intended for animal feed**	**Maximum content in ng WHO-PCDD/F-TEQ/kg (ppt) [1] relative to a feed with a moisture content of 12 %**
	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	5.5
	— compound feed for fur animals	—
Undesirable substance	Products intended for animal feed	Maximum content in µg/kg (ppb) relative to a feed with a moisture content of 12 %[1]
3. Non-dioxin-like PCBs (sum of PCB 28, PCB 52, PCB 101, PCB 138, PCB 153 and PCB 180 (ICES – 6)[1])	Feed materials of plant origin	10
	Feed materials of mineral origin	10
	Feed materials of animal origin:	
	— Animal fat, including milk fat and egg fat	10
	— Other land animal products including milk and milk products and eggs and egg products	10
	— Fish oil	175
	— Fish, other aquatic animals and products derived from them with the exception of fish oil and fish protein, hydrolysed, containing more than 20 % fat[5]	30
	— Fish protein, hydrolysed, containing more than 20 % fat	50
	Feed additives belonging to the functional groups of binders and anti-caking agents[4]	10
	Feed additives belonging to the functional group of compounds of trace elements	10

Undesirable substance	Products intended for animal feed	Maximum content in ng WHO-PCDD/F-TEQ/kg (ppt) [1] relative to a feed with a moisture content of 12 %
	Premixtures	10
	Compound feed	10
	with the exception of:	
	— compound feed for pet animals and fish	40
	— compound feed for fur animals	—

(1) 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) Table 5 (Part 2): Table of TEF (toxic equivalency factors) for dioxins, furans and dioxin-like PCBs: WHO-TEFs for human risk assessment based on the conclusions of the World Health Organisation (WHO) – International Programme on Chemical Safety (IPCS) expert meeting which was held in Geneva in June 2005 (Martin van den Berg et al., The 2005 World Health Organisation Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 93(2), 223–241 (2006)).

(3) 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 3.5 ng WHO-PCDD/F-TEQ/kg product and 6.5 ng WHO-PCDD/F-PCB-TEQ/kg product are applicable to fresh fish and 20.0 ng WHO-PCDD/F-PCB-TEQ/kg product is applicable 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.

(4) The maximum level is also applicable to the feed additives belonging to the functional groups of substances for the control of radionuclide contamination and substances for reduction of the contamination of feed by mycotoxins which also belong to the functional groups of binders and anti-caking agents.

(5) 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 75 µg/kg product are applicable to fresh fish and 200 µg/kg product are applicable 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.

Table 5 (Part 2): Table of TEF (toxic equivalency factors) for dioxins, furans and dioxin-like PCBs

Congener	*TEF value*
Dibenzo-para-dioxins ('PCDDs') and Dibenzo-para-furans (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	0.0003

Congener	*TEF value*
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.03
2,3,4,7,8-PeCDF	0.3
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	0.0003
'Dioxin-like' PCBs: Non-ortho PCBs + Mono-ortho PCBs	
Non-ortho PCBs	
PCB 77	0.0001
PCB 81	0.0003
PCB 126	0.1
PCB 169	0.03
Mono-ortho PCBs	
PCB 105	0.00003
PCB 114	0.00003
PCB 118	0.00003
PCB 123	0.00003
PCB 156	0.00003
PCB 157	0.00003
PCB 167	0.00003
PCB 189	0.00003
Abbreviations used: 'T' = tetra; 'Pe' = penta; 'Hx' = hexa; 'Hp' = hepta; 'O' = octa; 'CDD' = chlorodibenzodioxin; 'CDF' = chlorodibenzofuran; 'CB' = chlorobiphenyl.	

Table 6: 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
— Datura sp.		1 000
2. Crotalaria spp.	Feed materials and compound feed	100
3. Seeds and husks from Ricinus communis L., Croton tiglium L. and Abrus precatorius L. as well as their processed derivatives [(1)], separately or in combination	Feed materials and compound feed	10[(2)]
4. Unhusked beech mast — Fagus sylvatica L.	Feed materials and compound feed	Seeds and fruit as well as their processed derivatives may only be present in feed in trace amounts not quantitatively determinable
5. Purghera — Jatropha curcas L.	Feed materials and compound feed	Seeds and fruit as well as their processed derivatives may only be present in feed in trace amounts not quantitatively determinable
6. Seeds from Ambrosia spp.	Feed materials[(3)]	50
	with the exception of:	
	– Millet (grains of Panicum miliaceum L.) and sorghum (grains of Sorghum bicolor (L) Moench s.l.) not directly fed to animals [(3)]	200
	Compound feed containing unground grains and seeds	50
7. Seeds from — Indian mustard — Brassica juncea (L.) Czern. and Coss. ssp. integrifolia (West.) Thell. — Sareptian mustard — Brassica juncea (L.) Czern. and Coss. ssp. juncea	Feed materials and compound feed	Seeds may only be present in feed in trace amounts not quantitatively determinable

Undesirable substance	*Products intended for animal feed*	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
— Chinese mustard — Brassica juncea (L.) Czern. and Coss. ssp. juncea var. lutea Batalin — Black mustard — Brassica nigra (L.) Koch — Ethiopian mustard — Brassica carinata A. Braun		

(1) Insofar as determinable by analytical microscopy.

(2) Includes also seed husk fragments.

(3) Where unequivocal evidence is provided that the grains and seeds are intended for milling or crushing, there is no need to perform a cleaning of the grains and seeds containing non-compliant levels of seeds of Ambrosia spp. before milling or crushing on the condition that:

— the consignment is transported as a whole to the milling or crushing plant, and the milling or crushing plant is informed in advance of the presence of high levels of Ambrosia spp. seeds in order to take additional prevention measures to avoid dissemination into the environment,

—solid evidence is provided that prevention measures are taken to avoid dissemination of Ambrosia spp. seeds into the environment during transport to the crushing or milling plant, and

—the competent authority agrees to the transport, after having ensured that the abovementioned conditions are fulfilled.

In case these conditions are not fulfilled, the consignment must be cleared before any transport into the country and the screenings must be appropriately destroyed.

Table 7: AUTHORISED FEED ADDITIVES IN NON-TARGET FEED FOLLOWING UNAVOIDABLE CARRY-OVER

Coccidiostat	*Products intended for animal feed*[(1)]	*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	
	— laying birds and chickens reared for laying (> 16 weeks);	0.4
	— other animal species	1.2
	Premixtures for use in feed in which the use of decoquinate is not authorised.	[(2)]
2. Diclazuril	Feed materials	0.01
	Compound feed for	
	— laying birds and chickens reared for laying (> 16 weeks),	0.01

(1) Without prejudice to the authorised levels pursuant to Regulation (EC) No 1831/2003.

(2) 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.**]**

Coccidiostat	*Products intended for animal feed*[1]	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	— 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 fowl and turkeys for fattening.	0.03
	Premixtures for use in feed in which the use of diclazuril is not authorised.	[2]
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.	[2]
4. Lasalocid A sodium	Feed materials	1.25
	Compound feed for	
	— dogs, calves, rabbits, equine species, dairy animals, laying birds, turkeys (> 16 weeks) and chickens reared for laying (> 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	1.25

(1) Without prejudice to the authorised levels pursuant to Regulation (EC) No 1831/2003.

(2) 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.**]**

Coccidiostat	*Products intended for animal feed*[1]	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	of lasalocid A sodium is prohibited (withdrawal feed),	
	— pheasants, guinea fowl, quails and partridges (except laying birds) for the period before slaughter in which the use of lasalocid A sodium is prohibited (withdrawal feed),	1.25
	— other animal species.	3.75
	Premixtures for use in feed in which the use of lasalocid A sodium is not authorised.	[2]
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
	— other animal species.	0.15
	Premixtures for use in feed in which the use of maduramicin ammonium alpha is not authorised.	[2]
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 (<	1.25

(1) Without prejudice to the authorised levels pursuant to Regulation (EC) No 1831/2003.

(2) 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.**]**

Coccidiostat	***Products intended for animal feed*[1]**	***Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %***
	16 weeks) and turkeys (< 16 weeks) for the period before slaughter in which the use of monensin sodium is prohibited (withdrawal feed),	
	— other animal species.	3.75
	Premixtures for use in feed in which the use of monensin sodium is not authorised.	[2]
7. Narasin	Feed materials	0.7
	Compound feed for	
	— 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.	[2]
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.	[2]
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 period before slaughter in which the use of robenidine	0.7

(1) Without prejudice to the authorised levels pursuant to Regulation (EC) No 1831/2003.

(2) 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.**]**

Coccidiostat	*Products intended for animal feed*[1]	*Maximum content in mg/kg (ppm) relative to a feed with a moisture content of 12 %*
	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.	[2]
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	[2]
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.	[2]

(1) Without prejudice to the authorised levels pursuant to Regulation (EC) No 1831/2003.

(2) 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.**]**

[F2SCHEDULE 5

Regulations 15 and 15A

Action thresholds triggering investigations: dioxins and PCBs

Modifications etc. (not altering text)

C2 Sch. 5 applied in part (with modifications) (N.I.) (1.10.2023) by The Windsor Framework (Retail Movement Scheme: Public Health, Marketing and Organic Product Standards and Miscellaneous Provisions) Regulations 2023 (S.I. 2023/959), regs. 1(2), 4(b), **Sch. 2** (with regs. 7, 8)

Table 1: DIOXINS AND PCBs

Undesirable substances	*Products intended for animal feed*	*Action threshold in ng WHO-PCDD/F TEQ/ kg (ppt) (2) relative to a feedingstuff with a moisture content of 12 %*	*Comments and additional 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, 2005) (1))	Feed materials of plant origin	0.5	(3)
	with the exception of:		
	— vegetable oils and their by-products.	0.5	(3)
	Feed materials of mineral origin	0.5	(3)
	Feed materials of animal origin:		
	— Animal fat, including milk fat and egg fat,	0.75	(3)
	— Other land animal products including milk and milk products and eggs and egg products,	0.5	(3)
	— Fish oil,	4.0	(4)

Undesirable substances	*Products intended for animal feed*	*Action threshold in ng WHO-PCDD/F TEQ/ kg (ppt) [2] relative to a feedingstuff with a moisture content of 12 %*	*Comments and additional information (e.g. nature of investigations to be performed)*
	— Fish, other aquatic animals and products derived from them, with the exception of fish oil, hydrolysed fish protein containing more than 20 % fat and crustacea meal,	0.75	[4]
	— Hydrolysed fish protein containing more than 20 % fat; crustacea meal.	1.25	[4]
	Feed additives belonging to the functional groups of binders and anti-caking agents	0.5	[3]
	Feed additives belonging to the functional group of compounds of trace elements	0.5	[3]
	Premixtures	0.5	[3]
	Compound feed	0.5	[3]
	with the exception of:		
	— compound feed for pet animals and fish,	1.25	[4]
	— 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 factors, 2005) [1])	Feed materials of plant origin	0.35	[3]
	with the exception of:		

Undesirable substances	*Products intended for animal feed*	*Action threshold in ng WHO-PCDD/F TEQ/ kg (ppt) [2] relative to a feedingstuff with a moisture content of 12 %*	*Comments and additional information (e.g. nature of investigations to be performed)*
	— vegetable oils and their by-products	0.5	[3]
	Feed materials of mineral origin	0.35	[3]
	Feed materials of animal origin:		
	— Animal fat, including milk fat and egg fat	0.75	[3]
	— Other land animal products including milk and milk products and eggs and egg products	0.35	[3]
	— Fish oil	11.0	[4]
	— Fish, other aquatic animals and products derived from them, with the exception of fish oil and fish protein, hydrolysed, containing more than 20 % fat[3]	2.0	[4]
	— Fish protein, hydrolysed, containing more than 20 % fat	5.0	[4]
	Feed additives belonging to the functional groups of binders and anti-caking agents	0.5	[3]
	Feed additives belonging to the functional group of compounds of trace elements	0.35	[3]
	Premixtures	0.35	[3]
	Compound feed	0.5	[3]
	with the exception of:		

Undesirable substances	*Products intended for animal feed*	*Action threshold in ng WHO-PCDD/F TEQ/ kg (ppt) [2] relative to a feedingstuff with a moisture content of 12 %*	*Comments and additional information (e.g. nature of investigations to be performed)*
	— compound feed for pet animals and fish	2.5	[4]
	— compound feed for fur animals	—	

(1) Table 2: Table of TEF (toxic equivalency factors) for dioxins, furans and dioxin-like PCBs: WHO-TEFs for human risk assessment based on the conclusions of the World Health Organisation (WHO) – International Programme on Chemical Safety (IPCS) expert meeting which was held in Geneva in June 2005 (Martin van den Berg et al., The 2005 World Health Organisation Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 93(2), 223–241 (2006)).

(2) 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.

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

(4) 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., shall be recorded with a view to future measures to manage the presence of dioxins and dioxin-like compounds in these materials for animal nutrition.

Table 2: Table of TEF (toxic equivalency factors) for dioxins, furans and dioxin-like PCBs

Congener	***TEF value***
Dibenzo-para-dioxins (‘PCDDs’) and Dibenzo-para-furans (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	0.0003
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.03
2,3,4,7,8-PeCDF	0.3
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

Congener	*TEF value*
1,2,3,4,6,7,8-HpCDF	0.01
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.0003
'Dioxin-like' PCBs: Non-ortho PCBs + Mono-ortho PCBs	
Non-ortho PCBs	
PCB 77	0.0001
PCB 81	0.0003
PCB 126	0.1
PCB 169	0.03
Mono-ortho PCBs	
PCB 105	0.00003
PCB 114	0.00003
PCB 118	0.00003
PCB 123	0.00003
PCB 156	0.00003
PCB 157	0.00003
PCB 167	0.00003
PCB 189	0.00003
Abbreviations used: 'T' = tetra; 'Pe' = penta; 'Hx' = hexa; 'Hp' = hepta; 'O' = octa; 'CDD' = chlorodibenzodioxin; 'CDF' = chlorodibenzofuran; 'CB' = chlorobiphenyl.**]**	

Changes to legislation:
There are currently no known outstanding effects for the The Animal Feed (Composition, Marketing and Use) (England) Regulations 2015.