

Consultation on maximum levels for some contaminants in feed

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EU proposes to set and amend maximum levels for some contaminants in feed

<u>Draft</u> Commission delegated Regulation amending Annexes I and II to Directive 2002/32/EC of the European Parliament and of the Council as regards maximum levels and action thresholds for arsenic, cadmium, lead, nickel, rye ergot, delta-9-tetrahydrocannabinol, endosulfan, heptachlor, hexachlorbenzene, hexachlorohexane, dioxins and PCBs, *Datura* sp., certain coccidiostats and histomonostats and p-phenetidine in animal feed

<u>Annexes</u>

Update

The EU has informed the World Trade Organization Sanitary and Phytosanitary Measures (WTO SPS) Committee that it proposes to establish maximum levels for arsenic, cadmium, lead, nickel, rye ergot, delta-9-tetrahydrocannabinol, endosulfan, heptachlor, hexachlorbenzene, hexachlorohexane, dioxins and PCBs, *Datura* sp., certain coccidiostats and histomonostats, and p-phenetidine in animal feed (<u>G/SPS/N/EU/703</u>).

Impacted products

Feed

What is changing?

The main proposed changes to permitted levels of these contaminants in animal feed are:

- establishment of maximum levels for nickel, Δ9-tetrahydrocannabinol (Δ9-THC), and p-phenetidine
- increase of maximum levels for arsenic in fish feed, cadmium in copper (I) oxide, and lead in game meat for use in pet food
- lowering of maximum levels for rye ergot, endosulfan, heptachlor, hexachlorobenzene, gamma-hexachlorocyclohexane, dioxins and dioxin-like PCBs, and Datura seeds
- changes to certain action levels for dioxins and PCBs.





In addition, there are amendments to some wording of the feed materials, e.g. "cupric acid" is replaced by "copper (II) oxide". See the proposed <u>Annexes</u> to the Regulation for details.

Maximum levels

"Maximum levels" here refer to the maximum levels of contaminants that can be accepted in a given product or products. The changes to maximum levels proposed in Annex I are highlighted in the Tables below.

- Table 1: inorganic contaminants and nitrogenous compounds (Section I)
- Table 2: mycotoxins and inherent plant toxins (Sections II and III)
- Table 3: organochlorine compounds (except dioxins and PCBs) (Section IV)
- Table 4: dioxins and PCBs (Section V)
- Table 5: residues of authorised feed additives in feed for nontarget animals (Section VII)
- Table 6: harmful botanical impurities and other undesirable substances (Sections VI and VIII).

In addition, Table 7 shows proposed changes to action thresholds triggering investigations by Member States (Annex II).

Why?

The proposed changes to maximum levels respond to a series of evaluations undertaken by the European Food Safety Authority aimed at ensuring the levels are achievable, while preserving animal and human health (EFSA 2005a, 2005b, 2006, 2007, 2008, 2011, 2018, 2022).

Timeline

The Regulation is expected to apply 20 days following that of its publication in the Official Journal of the European Union.

Recommended Actions

Suppliers of feed materials to the EU market should check their compliance with the new proposed maximum levels of contaminants, and where necessary take steps to ensure compliance by July 2024.





Background

Maximum levels and action thresholds for undesirable substances in feed were established by Directive <u>2002/32/EC</u>.

Resources

Directive 2002/32 on undesirable substances in animal feed

EFSA (2005a) <u>Opinion of the Scientific Panel on Contaminants in the Food Chain on a request</u> <u>from the Commission related to endosulfan as undesirable substance in animal feed</u>. EFSA Journal, 3(7): 234.

EFSA (2005b) Opinion of the Scientific Panel on Contaminants in the Food Chain on a request from the Commission related to gamma-hexachlorocyclohexane (■-HCH) and other hexachlorocyclohexanes as undesirable substance in animal feed. EFSA Journal, 3(7): 250.

EFSA (2006) <u>Opinion of the Scientific Panel on Contaminants in the Food Chain on a request</u> from the Commission related to hexachlorobenzene as undesirable substance in animal feed. EFSA Journal, 4(10): 402.

EFSA (2007) <u>Opinion of the Scientific Panel on Contaminants in the Food Chain on a request</u> from the Commission related to heptachlor as undesirable substance in animal feed. EFSA Journal, 5(6): 478.

EFSA (2008) <u>Tropane alkaloids (from Datura sp.) as undesirable substances in animal feed[1] –</u> <u>Scientific Opinion of the Panel on Contaminants in the Food Chain</u>. EFSA Journal, 6(8): 691.

EFSA (2011) <u>Scientific Opinion on the safety of hemp (Cannabis genus) for use as animal feed</u>. EFSA Journal, 9(3): 2011.

EFSA (2018) <u>Risk for animal and human health related to the presence of dioxins and dioxin-like</u> <u>PCBs in feed and food</u>. EFSA Journal, 16(11): 5333.

EFSA (2022) <u>Safety and efficacy of a feed additive consisting of ethoxyquin</u> (6-ethoxy-1,2-dihydro-2,2,4-trimethylquinoline) for all animal species (FEFANA asbl). EFSA Journal, 20(3): 7166.





Sources

<u>Draft</u> Regulation as regards maximum levels and action thresholds for arsenic, cadmium, lead, nickel, rye ergot, delta-9-tetrahydrocannabinol, endosulfan, heptachlor, hexachlorbenzene, hexachlorohexane, dioxins and PCBs, *Datura* sp., certain coccidiostats and histomonostats and p-phenetidine in animal feed

Annexes

Visit the <u>AGRINFO website</u> to view the latest AGRINFO Update newsletters and <u>search</u> the database.





Table & Figures

Prop	•	mum levels of inorganic ompounds (Annex I, Sect		ants
Undesirable	Products intended	New wording	Maximum content[1]	
substance	for animal feed		Current	Proposed
Arsenic	– fish, other aquatic animals and products derived thereof		25	40
	Complementary feed	Added feed material: – complementary feed for fish	_	10
Cadmium	Feed additives belonging to the functional group of compounds of trace elements with the exception of: – cupric oxide, manganous oxide, zinc oxide and manganous sulphate monohydrate	Added to the exceptions: – copper (I) oxide	_	15
Lead	Feed materials with the exception of:	Added to the exceptions: – animal byproducts derived from game animals for use in the production of pet food	_	25
Nickel		Feed materials Fatty acids esterified with glycerol, mono di and triglycerides of fatty acids, salts of fatty acids, crude fatty acids, salt of lactylates of fatty acids, pure distilled fatty acids, crude glycerine and glycerine	-	20
[1] In mg/kg (ppm)) relative to a feed with 12% moisture co	ntent.		





Pro		naximum levels of myco ns (Annex I, Sections II a		
Undesirable	Products intended for animal feed	New wording	Maximum content[1]	
substance			Current	Proposed
Mycotoxins: Rye ergot (<i>Claviceps</i> <i>purpurea</i>)	Feed materials and compound feed containing unground cereals		1,000	500
	with the exception of:	Added to the exceptions: – feed materials and compound feed containing unground rye	-	750
Inherent plant toxins: Delta-9- tetrahydrocan		Feed materials – hemp seed	-	3
		– hemp expeller	-	3
nabinol (Δº-THC)		– hemp seed oil	-	7.5
		– hemp flour	-	7.5
		– hemp fibre	-	7.5
		Complete feed	-	0.5
[1] In mg/kg (ppm) rela	ative to a feed with 12% moisture cor	ntent.		





Propose		Table 3 um levels of organochloi nd PCBs) (Annex I, Sectio		ounds
Undesirable	Products intended New wordi for animal feed	New wording	Maximum content[1]	
substance			Current	Proposed
Endosulfan[2]	Feed materials and compound feed with the exception of:	-	0.1	0.05
	– complete feed for Salmonids	-	0.05	0.02
Heptachlor[3]	Feed materials and compound feed with the exception of:	-		
	– fats and oils	-	0.2	0.1
Hexachlorobenzene (HCB)	Feed materials and compound feed with the exception of:	_		
	– fats and oils	-	0.2	0.1
Hexachlorocyclo- hexane (HCH)– gamma isomers	Feed materials and compound feed with the exception of:	-	0.2	0.01
	– fats and oils	-	2.0	0.1

In mg/kg (ppm) relative to a feed with 12% moisture content.
 Sum of alpha and beta isomers and of endosulfan sulphate expressed as endosulfan.

[3] Sum of heptachlor and of heptachlor epoxide expressed as heptachlor.







Undesirable	Products intended	New wording	Maximum content[1]	
substance	for animal feed		Current	Proposed
Dioxins[2]	Feed materials of animal origin: – Animal fat, including milk fat and egg fat		1.50	1.0
	– Fish oil		5.0	3.5
	– Hydrolysed fish protein containing more than 20% fat; crustacea meal		1.75	1.5
	Feed additives belonging to the functional group of compounds of trace elements Compound feed with the exception of: – compound feed for pet animals and fish	Compound feed with the exception of: – compound feed for fish	1.75	1.0
		– compound feed for pet animals	1.75	1.75
Sum of dioxins and dioxin-like PCBs[3]	Compound feed with the exception of: – compound feed for pet animals and fish	Compound feed with the exception of: – compound feed for fish	5.5	2.0
		– compound feed for pet animals	5.5	5.5
[WHO-PCDD/F-TEQ is Organization; PCDD, p [2] Sum of PCDDs and factors (TEFs) 2005.	F-TEQ/kg (ppt) relative to a feed with a moist fr-TEQ/kg (ppt) relative to a feed with a moist the sum of the toxic equivalencies of the 17 r solychlorinated dibenzo-para-dioxin; TEQ, to polychlorinated dibenzofurans (PCDFs) exp DFs, and polychlorinated biphenyls (PCBs) ex	nost toxicologically significant dio xic equivalent.] ressed in WHO toxic equivalents, us	ing the WHO-toxic	equivalency



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Proposed changes to	Tabl maximum leve (Annex I, Se	els of harmful bota	anical imp	urities	
Undesirable substance	Products intended for animal feed	New wording	Maximum content, mg/kg (ppm)		
			Current	Proposed	
Harmful botanical impurities (Section VI)					
Weed seeds and unground and uncrushed fruits containing alkaloids, glucosides or other toxic substances separately or in combination, including	Feed materials and compound feed	-			
– Datura sp.			1,000	500	
	V agi www.agri	info nfo.eu			





Table 6

Proposed changes to maximum residue levels of authorised feed additives in feed for nontarget animals, and other undesirable substances (Annex I, Sections VII and VIII)

 [New title wording:] Section VII: Residues of authorised feed additives in feed for nontarget animal species (2) (3) following unavoidable carry-over

 (2) Coccidiostats (substances) which are authorised as feed additive according to Regulation (EC) 1831/2003 either alone or in combination with other coccidiostats

 (3) Without prejudice to the authorised levels in the frame of Regulation (EC) No 1831/2003

 [Old title wording:] Section VII: Authorised feed additives in non-target feed following unavoidable carryover

 Undesirable substance
 Products intended for animal feed

 Isaalocid sodium
 Feed materials

			Current	Proposed
Lasalocid sodium	Feed materials		1.25	0.9
	Compound feed for – dogs, calves, rabbits, equine species, dairy animals, laying birds, turkeys (>16 weeks) and chickens reared for laying (>16 weeks)	Compound feed for – dogs, calves, rabbits, equine species, dairy animals, laying birds, turkeys (>16 weeks) and chickens reared for laying	1.25	0.9
	 chickens for fattening, chickens reared for laying (<16 weeks) and turkeys (<16 weeks) for the period before slaughter in which the use of lasalocid A sodium is prohibited (withdrawal feed) 	 chickens for fattening and turkeys (>16 weeks) for the period before slaughter in which the use of lasalocid sodium is prohibited (withdrawal feed) 	1.25	0.9
	- 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)	 pheasants, guinea fowl, quails and partridges (except laying birds) for the period before slaughter in which the use of lasalocid sodium A is prohibited (withdrawal feed) 	1.25	0.9
	– other animal species	 other animal species for which the use of lasalocid sodium is not authorised 	3.75	2.7
Nicarbazin	Feed materials Compound feed for	Feed materials Compound feed for (is added) - chickens for fattening for the period before slaughter in which the use is prohibited (withdrawal feed)	_	1.25
Other undesirable	substances (new Section VIII)			-
p-phenetidine		Feed materials, feed additives, premixtures and compound feed	-	125
[1] In mg/kg (ppm) rela	ative to a feed with 12% moisture conter	it. Magninfo ww.agrinfo.eu		



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Undesirable	Products intended for animal feed	New wording	Action thr	eshold[1,2]
substance			Current	Proposed
Dioxins	Feed materials of animal origin: – Animal fat, including milk fat and egg fat	Feed materials of animal origin: – Animal fat, including milk fat and egg fat	0.75	0.5
		– Fish oil	4.0	2.5
		– Hydrolysed fish protein containing more than 20% fat; crustacea meal	1.25	1.0
Dioxins (sum of PCDDs and PCDFs)[3]	Compound feed with the exception of: – compound feed for pet animals and fish	Compound feed with the exception of: – compound feed for fish	1.25	0.75
		– compound feed for pet animals	1.25	1.25
Dioxin-like PCBs[4]	Feed materials of animal origin: – Fish oil	Feed materials of animal origin: – Fish oil	11.0	8.0
	 Fish, other aquatic animals and products derived thereof with the exception of fish oil and fish protein, hydrolysed, containing more than 20% fat 	 Fish, other aquatic animals, and products derived thereof with the exception of fish oil, hydrolysed fish protein containing more than 20% fat and crustacea meal 	2.0	1.5
	– Fish protein, hydrolysed, containing more than 20% fat	– Hydrolysed fish protein containing more than 20% fat; crustacea meal	5.0	4.0
	Compound feed with the exception of: - compound feed for pet animals and fish	Compound feed with the exception of: – compound feed for fish	2.5	1.25
		– compound feed for pet animals	2.5	2.5
operator, to identify the trend in the levels is de [2] In ng WHO-PCDDFT [WHO-PCDD/F-TEQ is the Organization; PCDD, p [3] Sum of PCDDs and factors (TEFs) 2005.	he sources of the contaminant. This inc tected. The thresholds are set to ensu EQ/kg (ppt) relative to a feed with a m the sum of the toxic equivalencies of th olychlorinated dibenzo-para-dioxin; Ti polychlorinated dibenzofurans (PCDFs	ne 17 most toxicologically significant diox	re exceeded, also t authorities. ins and furans. WH ing the WHO-toxic	where an upwar 10, World Health



Source: <u>Annexes</u> to the draft Regulation

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