Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EC) No 2316/98. (See end of Document for details)

ANNEX I

No	EC No	Additiv	formula	aSpecies , or	age		unMaxim t content		Duration onsf
				descriptiontegory of animal		mg/kg comple feeding	ete	-	authorisation
		Colouring matters including pigments	or D						
		1.	Caroteno and xanthopl						
	E 160a	Beta- carotene	C ₄₀ H ₅₆	Canaries	_	_	_	_	30.9.1999
	E 160c	Capsantl	16140H56O	₃ Poultry		_	80 (alone or with the other caroteno and xanthoph		Without a time limit
	E 160e	Beta- apo-8'- carotena	C ₃₀ H ₄₀ O	Poultry		_	80 (alone or with the other caroteno and xanthoph		Without a time limit
	E 160f	Ethyl ester of beta- apo-8'- caroteno acid	C ₃₂ H ₄₄ O	₂ Poultry		_	80 (alone or with the other caroteno and xanthoph		Without a time limit
	E 161b	Lutein	C ₄₀ H ₅₆ O	₂ Poultry		_	80 (alone or with the other caroteno and xantho-phylls)	—ids	Without a time limit

E	161c	Cryptoxa	athiH 56 O	Poultry		_	80 (alone or with the other caroteno and xantho-phylls)	ids	Without a time limit
E	16lg	Canthaxa	哈孙 52O	₂ Poultry		_	80 (alone or with the other caroteno and xantho-phylls)	ids	Without a time limit
				Salmon, trout			80	Use permitted from the age of six months onwards The mixture of canthaxa with astaxanth is allowed provided that the total concentry of the mixture does not exceed 100 mg/kg in the complete feedings	nthin nin ation
				Dogs, cats and	_	_	_	_	Without a time limit

			ornamen fish	tal				
			Pet and ornamen birds	— tal	_	_	_	30.9.1999
E 161h	Zeaxanthů	īl ₄₀ H ₅₆ O	₂ Poultry	_	_	80 (alone or with the other caroteno and xanthoph		Without a time limit
E 16li	Citranaxa	а́ ы ні ₄₄ О	Laying hens	_	_	80 (alone or with the other caroteno and xanthoph		Without a time limit
E 161j	Astaxantk	iq ₀ H ₅₂ O,	4Salmon, trout			100	Use only permitted from the age of six months onwards The mixture of astaxantl with canthaxa is allowed provided that the total concentr of the mixture does not exceed 100 mg/kg in the	nin nthin

							complete feedings	
			Ornamer fish	ı tal	_	_	_	Without a time limit
11	ric Ph rho (C.	staxant looncent biomass of the odozymyeast BS Phaffia (CBS 116.94), killed, containing at least 2,5 g astaxant per kilogram additive	trout na ng hin			100	The maximur content is expressed as astaxant! Use only permitted from the age of six months onwards. The mixture of the additive with canthaxa is allowed provided that the total concentry of astaxant! and canthaxa does not exceed 100 mg/kg in the complete feedings!	d nin d ation nin nthin
12	ric Ph rho (A'	staxant lümncent h biomass of the odozymneast TCC Phaffia 219) rhodozym (ATCC	trout			100	The maximum content is expressed as astaxantle	d

T4219), killed, containing at least 4,0 g astaxanthin per months months						
containing at least 4,0 g astaxanthin per months onwards of additive and having a maximum ethoxyquin content of 2 000 mg/ kg in the ataxanthin and canthaxanthin does not exceed 100 mg/ kg in the complete feedingstuff Ethoxyquin content to be		74219),			Use	
at least 4,0 g astaxanthin per kilogram of additive and having a maximum ethoxyquin content of 2 000 mg/ kg material max at least 4,0 g astaxanthin months onwards The mixture of the additive with canthaxanthin is allowed provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/ kg in the complete feedingstuff Ethoxyquin content to be		killed,			permittee	d
4,0 g astaxanthin per kilogram of additive and having a maximum ethoxyquin content of 2 000 mg/ kg g astaxanthin and canthaxanthin does not exceed 100 mg/ kg in the complete feedingstuff Ethoxyquin content to be			ng			
astaxanthin per kilogram of six months onwards of additive and having a maximum ethoxyquin content of 2 000 mg/kg in the complete feedingstuff Ethoxyquin content to be		at least			from	
per kilogram of additive and having a maximum ethoxyquin content of 2 000 mg/ kg in the complete feedingstuff Ethoxyquin content to be						
kilogram of additive and having a maximum ethoxyquin content of 2 000 mg/ kg with total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/ kg in the complete feedingstuff Ethoxyquin content to be		astaxantl	nin		of six	
of additive and having a maximum ethoxyquin content of 2 motor of astaxanthin and canthaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff Ethoxyquin content to be						
additive and having a mixture of the additive with canthaxanthin is content of 2 provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff Ethoxyquin content to be		kilogram	L			
and having a maximum ethoxyquin content of 2 most and canthaxanthin and canthaxanthin and canthaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff Ethoxyquin content to be					-	
having a maximum ethoxyquin content of 2 000 mg/kg with canthaxanthin is allowed provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff Ethoxyquin content to be						
a maximum ethoxyquin content of 2 000 mg/kg in the complete feedingstuff Ethoxyquin content to be						
maximum ethoxyquin content of 2 000 mg/ kg maximum ethoxyquin content of 2 000 mg/ kg maximum ethoxyquin is allowed provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/ kg in the complete feedingstuff Ethoxyquin content to be		having				
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of 2 000 mg/ kg provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff Ethoxyquin content to be			ıin			
that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff Ethoxyquin content to be						
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ANNEX II

EC No	Element	Additive	Chemical formula	Maximum content of the element in mg/kg of the complete feedingstuf	Other provisions	Duration of authorisation
E4	Copper-Cu	Cupric acetate, monohydrate	Cu(CH ₃ COC . H ₂ O	Pigs for fattening:	_	Without a time limit

Basic cupric carbonate, monohydrate	CuCO ₃ . Cu(OH) ₂ . H ₂ O	in Member States where the mean density of		Without a time limit
Cupric chloride, dihydrate	CuCl ₂ . 2H ₂ O	the porcine population is equal to	_	Without a time limit
[^{F1}]		or higher than 175		
Cupric oxide	CuO	pigs per 100 ha of	_	Without a time limit
Cupric sulphate, pentahydrate	CuSO ₄ . 5H ₂ O	utilisable agricultural land: — up to 16 wee 175 (total land) — from 17t wee up to slaw 35 (total land) in Member States where the mean density of the porcine population is lower than 175 pigs per 100 ha of utilisable agricultural land: — up to 16	eks:	Without a time limit
		— fro	m lh ek	

		— over six mo up to slar 35 (total) Calves: — mil rep 30 (total) — oth cor	tal) or onths ughter: tal) k lacers: tal) er onplete dingstuffs:	
Cupric sulphate, monohydrate Cupric sulphate, pentahydrate	CuSO ₄ . 5H ₂ O	Pigs for fattening: in Member States where the mean density of the porcine population is equal to or higher than 175 pigs per 100 ha of utilisable agricultural land: — up to	to the rele pro of	

Commission Regulation (EC) No 2316/98 of 26 October 1998 concerning authorisation of new...

ANNEX I

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Changes to legislation: There are currently no known outstanding effects for the Commission Regulation (EC) No 2316/98. (See end of Document for details)

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		Ovines: 15 (total) Other species or categories of animals with the exception of calves: 35 (total)		
Cupric chelate of amino acids hydrate	Cu (x) ₁₋₃ . nH ₂ O (x = anion of any amino acid derived from hydrolysed soya protein) Molecular weight not exceeding 1 500	175 (tot — from 17t week up to	al) m h ek ughter:	Without a time limit

T.E.	Managarasa	eFila e		17: (to fro 17: we up to six mo 10: (to ove six mo up to sla 35 (to Breeding pigs: 35 (total) Other species or categories of animals, with the exception of calves prior to the start of rumination and sheep: 35 (total)	tal) m th ek onths: onths tal) er tal)	Flygge
E5	Manganese- Mn	[F1Manganot carbonate]	ı ş ^{F1} MnCO ₃	[F1250 (total)]	[^{F1} —]	[F1Without a time limit]
		Manganous chloride, tetrahydrate	MnCl ₂ . 4H ₂ O	250 (total)	_	Without a time limit
		[^{F1}]				
		Manganous oxide	MnO	250 (total)	_	Without a time limit

		[^{F1}]				
		[^{F1}]				
		Manganous sulphate, monohydrate	MnSO ₄ . H ₂ O	250 (total)		Without a time limit
		Manganese chelate of amino acids hydrate	$Mn (x)_{1-3}$. nH_2O ($x = anion$ of any amino acid derived from hydrolysed soya protein) Molecular weight not exceeding 1 500	250 (total)	Not more than 40 mg/ kg of manganese in the complete feedingstuff may come from manganese chelate of amino acids hydrate	Without a time limit
E6	Zinc-Zn	[F1Zinc lactate, trihydrate]	[F1Zn(C ₃ H ₅ C 3H ₂ O]	₃ F1250 (total)]	[F1—]	[F1Without a time limit]
		Zinc acetate, dihydrate	Zn(CH ₃ COC . 2H ₂ O) <u>2</u> 50 (total)	_	Without a time limit
		[^{F1}]				
		[^{F1}]				
		Zinc oxide	ZnO	250 (total)	Maximum content of lead: 600 mg/kg	Without a time limit
		Zinc sulphate, heptahydrate	ZnSO ₄ . 7H ₂ O	250 (total)	_	Without a time limit
		Zinc sulphate, monohydrate	ZnSO ₄ . H ₂ O	250 (total)	_	Without a time limit
		Zinc chelate of amino acids hydrate	$Zn (x)_{1-3}$. nH_2O (x = anion of any amino acid derived from hydrolysed	250 (total)	Not more than 80 mg/ kg of zinc in the complete feedingstuff may come from zinc chelate of	Without a time limit

soya	amino acids
protein)	hydrate
Molecular	
weight not	
exceeding 1	
500	

Textual Amendments

F1 Deleted by Commission Implementing Regulation (EU) 2017/1145 of 8 June 2017 on the withdrawal from the market of certain feed additives authorised pursuant to Council Directives 70/524/EEC and 82/471/EEC and repealing the obsolete provisions authorising those feed additives (Text with EEA relevance).

ANNEX III

EC No	Additive	Chemica formula, descripti		age	mMinimu content mg/ kg of	mMaximu content	nOther provision	Duration nsof authorisatio
			animal		complete feedings			
E 320	Butylated hydroxya (BHA)	C ₁₁ H ₁₆ O ₂ nisole	species or		_	150: alone or together	All feedingstu	Without affsime limit
E 321	Butylated hydroxyto (BHT)		categories of animals except	_	_			
E 324	Ethoxyqu	i © 14H19ON			_			
E 320	Butylated hydroxya (BHA)	C ₁₁ H ₁₆ O ₂ nisole	Dogs	_	_	150: alone or together	The mixture of ethoxyqui with BHA and/or BHT is allowed provided the total concentrate of the mixture does not exceed 150 mg/kg of	
E 321	Butylated hydroxyto (BHT)	C ₁₅ H ₂₄ O oluene		_	_			
E 324	Ethoxyqu	i € 14H19ON	NDogs			100		

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		plete ingstuff

ANNEX IV

No	Additive	Chemica formula,		Maximu age	mMinimu activity	mMaximu activity	mOther provisio	Duration
			io c ategory of animal	age	Unit of activity per kg of complete feedings		provisio	authorisation
1 3- phytase (EC 3.1.3.8)	phytase	phytase produced by Aspergillus niger (CBS	categories of		_			21.4.1999
			Chickens (all categories of animals)		_			21.4.1999
					125 FTU			30,9,1999 Indicate in the directions for use for the additive and the premixture the storage temperature, storage duration and stability on pelleting
								Recommended dose per

a 1 FTU is the amount of enzyme which liberates 1 micromole of inorganic phosphate per minute from sodium phytate at pH 5,5 and 37 °C.

			3.	kg of complete feedingstuff: 200-800 FTU For use in compound feedingstuffs with a minimum content of 0,3 % phytate, e.g.
				e.g. 20 % wheat

a 1 FTU is the amount of enzyme which liberates 1 micromole of inorganic phosphate per minute from sodium phytate at pH 5,5 and 37 °C.

Changes to legislation:

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