Commission Regulation (EC) No 2316/98 of 26 October 1998 concerning authorisation of new additives and amending the conditions for authorisation of a number of additives already authorised in feedingstuffs (Text with EEA relevance)

# COMMISSION REGULATION (EC) No 2316/98

# of 26 October 1998

concerning authorisation of new additives and amending the conditions for authorisation of a number of additives already authorised in feedingstuffs

# (Text with EEA relevance)

#### Article 1

1 Beta-carotene, belonging to Part 1 'Carotenoids and xanthophylls' of the group 'Colouring matters including pigments', may be authorised in accordance with Directive 70/524/EEC as additive E 160a in feedingstuffs under the conditions laid down in Annex I to this Regulation.

2 Astaxanthin-rich *Phaffia rhodozyma* (ATCC 74219), belonging to Part 1 'Carotenoids and xanthophylls' of the group 'Colouring matters including pigments', may be authorised in accordance with Directive 70/524/EEC as additive 12 in feedingstuffs under the conditions laid down in Annex I to this Regulation.

3 The substance 'cupric chelate of amino acids hydrate', belonging to the group 'Trace elements', element E4 'Copper-Cu', shall be authorised in accordance with Directive 70/524/ EEC as an additive in feedingstuffs under the conditions laid down in Annex II to this Regulation.

4 The substance 'manganese chelate of amino hydrate', belonging to the group 'Trace elements', element E5 'Manganese-Mn', shall be authorised in accordance with Directive 70/524/EEC as an additive in feedingstuffs under the conditions laid down in Annex II to this Regulation.

5 The substance 'zinc chelate of amino acids hydrate', belonging to the group 'Trace elements', element E6 'Zinc-Zn', shall be authorised in accordance with Directive 70/524/EEC as an additive in feedingstuffs under the conditions laid down in Annex II to this Regulation.

#### Article 2

1 The conditions for authorisation of the additive E 324 Ethoxyquin, belonging to the group 'Antioxidants', shall be replaced in accordance with Directive 70/524/EEC by the conditions laid down in Annex III to this Regulation.

2 Additive E161g Canthaxanthin, belonging to Part 1 'Carotenoids and xanthophylls' of the group 'Colouring matters including pigments' for the category of 'Pet and ornamental birds', may be authorised in accordance with Directive 70/524/EEC under the conditions laid down in Annex I to this Regulation.

3 Additive 3-phytase (EC 3.1.3.8), belonging to the group 'Enzymes', may be authorised in accordance with Directive 70/524/EEC under the conditions laid down in Annex IV to this Regulation.

4 Additive 11, Astaxanthin-rich *Phaffia rhodozyma*, belonging to Part 1 'Carotenoids and xanthophylls' of the group 'Colouring matters including pigments' for the category of animal 'Salmon, trout', may be authorised in accordance with Directive 70/524/EEC under the conditions laid down in Annex I to this Regulation.

#### Article 3

This Regulation shall enter into force on the 20th day following its publication in the *Official Journal of the European Communities*.

It shall apply from 15 December 1998.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

#### ANNEX I

No	EC No	Additiv	e Chemic formula		Maxii age		nunMaxim nt content		Duration onsf
				ti <b>oa</b> tegor of animal		mg/kg compl feedin	of ete	1	authorisatio
		Colourin matters including pigments	5						
		1.	Carotence and xanthopl						
	E 160a	Beta- carotene	C <sub>40</sub> H <sub>56</sub>	Canaries			_		30.9.1999
	E 160c	Capsanth	ий <sub>40</sub> Н <sub>56</sub> О	<sub>3</sub> Poultry			80 (alone or with the other caroteno and xanthoph		Without a time limit
	E 160e	Beta- apo-8'- carotena	C <sub>30</sub> H <sub>40</sub> 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 <sub>32</sub> H <sub>44</sub> O	<sub>2</sub> Poultry			80 (alone or with the other caroteno and xanthoph		Without a time limit
	E 161b	Lutein	C <sub>40</sub> H <sub>56</sub> O	<sub>2</sub> Poultry			80 (alone or with the other caroteno and xantho- phylls)	ids	Without a time limit

E 161	c CryptoxatithiH <sub>56</sub> C	) Poultry	 	80 (alone or with the other caroteno and xantho- phylls)	ids	Without a time limit
E 161	g CanthaxafithiH <sub>52</sub> C	D <sub>2</sub> 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 astaxantl is allowed provided that the total concentr of the mixture does not exceed 100 mg/ kg in the completed feedings	limit nthin nin ation
		Dogs, cats and	 _			Without a time limit

				ornamen fish	tal			
				Pet and ornamen birds	 tal	 	_	30.9.1999
	E 161h	Zeaxanthi	6140H56O	2Poultry		 80 (alone or with the other caroteno and xanthoph		Without a time limit
]	E 16li	Citranaxa	ճֆիЊ <sub>44</sub> О	Laying hens		 80 (alone or with the other caroteno and xanthoph		Without a time limit
	E 161j	Astaxant	διφ <sub>0</sub> Η <sub>52</sub> Ο	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 feedingstuff
		Ornamen <del>tal</del> fish	_		— Without a time limit
11	Phaffiaof the rhodozymyeast(CBSPhaffia116.94)rhodoz (CBS116.94killed, contair at least2,5 g astaxan per kilogra additiv	ss trout yma ), ing nthin e		100	The 21.4.1999 maximum content is expressed as astaxanthin Use only permitted from the age of six 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
12	Astaxanthioncen rich biomas <i>Phaffia</i> of the <i>rhodozymy</i> east (ATCC <i>Phaffia</i> 74219) <i>rhodoz</i> (ATCC	ss trout		100	The 30.9.1999 maximum content is expressed as astaxanthin

74219),	Use	
killed,	permitte	he
containing		, u
at least	from	
4,0 g	the age	
astaxanthin		
per	months	
kilogram	onward	
of	The	
additive	mixture	
and	of the	
having	additive	
a	with	
maximum	canthax	anthin
ethoxyquin		
content	allowed	
of 2	provide	d
000 mg/	that the	
kg	total	
	concent	ration
	of	
	astaxan	thin
	and	
	canthax	anthin
	does	
	not	
	exceed	
	100 mg	/
	kg in	
	the	
	complet	
	feeding	
	Ethoxyo	
	content	
	to be	
	declared	l

# ANNEX II

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

Basic cupric carbonate, monohydrate	$\begin{array}{c} CuCO_3 \ . \\ Cu(OH)_2 \ . \\ H_2O \end{array}$	in Member States where the mean		Without a time limit
Cupric chloride, dihydrate	CuCl <sub>2</sub> . 2H <sub>2</sub> O	- density of the porcine population is equal to		Without a time limit
[ <sup>F1</sup> ]		or higher than 175		L
Cupric oxide	CuO	pigs per 100 ha of	—	Without a time limit
Cupric sulphate, pentahydrate	CuSO <sub>4</sub> . 5H <sub>2</sub> O	utilisable agricultural land: up		Without a time limit
		to 16 we	eks:	
		17: (to 	tal)	
		17t we up		
		to	ughter:	
		in Member States	tal)	
		where the mean density of		
		the porcine population is lower		
		than 175 pigs per 100 ha of utilisable agricultural land:		
		— up to 16	eks:	
		17: (to) — fro	5 tal) m	
		171 we up	ek	

	100 (toi 	tal) er nths ughter: tal) lk lacers: tal)	
Cupric sulphate, monohydrateCuSO4 . H2OCupric sulphate, pentahydrateCuSO4 . SH2O	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: 	Denatured Without a skimmed time limit milk powder and compound feedingstuffs manufactured from denatured skimmed milk powder 	

		16	Regulations
		weeks:	(EĔC)
		175	No 368/77
			1
		(total)	and
		from	(EEC)
		17th	No 443/77
		week-	declaration
		up	of
		to	the
		slaughter:	amount
		35	
			of
		(total)	copper
	in Memb	er	added,
	States		expressed
	where		as
	the mean		the
	density o		element,
	the porci		on
	populatio	n	the
	is lower		label
	than 175		or
	pigs per		package
	100 ha o	f	or
	utilisable	;	container
	agricultu	ral	of
	land:		denatured
		up	skimmed
		to	milk
		16	powder
		weeks:	powder
		175	
		(total)	
		from	
		17th	
		week	
		up	
		to	
		6	
		months:	
		100	
		(total)	
		over	
		six	
		months	
		up	
		to	
		slaughter:	
		35	
		(total)	
	Breeding	5	
	pigs: 35		
	(total)		
I		I	I

		Ovines: 15 (total) Other species or categories of animals with the exception of calves: 35 (total)		
Cupric chelate of amino acids hydrate	Cu (x) <sub>1-3</sub> . nH <sub>2</sub> O (x = anion of any amino acid derived from hydrolysed soya protein) Molecular weight not exceeding 1 500	- fro - fro 17t we up to slav 35	tal) m h	Without a time limit

				17: (to fro 17: we up to six mo 100 (to 	eks: tal) m th ek onths: o tal) er onths ughter:	
E5	Manganese- Mn	[ <sup>F1</sup> Manganou carbonate]	ış <sup>F1</sup> MnCO <sub>3]</sub>	35 (total) [ <sup>F1</sup> 250 (total)]	[ <sup>F1</sup> —]	[ <sup>F1</sup> Without a time
		Manganous chloride, tetrahydrate	MnCl <sub>2</sub> . 4H <sub>2</sub> O	250 (total)		limit] Without a time limit
		[ <sup>F1</sup> ] Manganous oxide	MnO	250 (total)		Without a time limit

		[ <sup>F1</sup> ]				
		[ <sup>F1</sup> ]				
		Manganous sulphate, monohydrate	MnSO <sub>4</sub> . H <sub>2</sub> O	250 (total)		Without a time limit
		Manganese chelate of amino acids hydrate	$\begin{array}{l} Mn \ (x)_{1-3} \ . \\ nH_2O \\ (x = anion \\ of any \\ amino acid \\ derived \\ from \\ hydrolysed \\ soya \\ protein) \\ Molecular \\ weight not \\ exceeding 1 \\ 500 \end{array}$	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	[ <sup>F1</sup> Zinc lactate, trihydrate]	[ <sup>F1</sup> Zn(C <sub>3</sub> H <sub>5</sub> C 3H <sub>2</sub> O]	$\left[ \int_{2}^{F_1} 250 \right]$ (total)]	[ <sup>F1</sup> —]	[ <sup>F1</sup> Without a time limit]
		Zinc acetate, dihydrate	Zn(CH <sub>3</sub> COC . 2H <sub>2</sub> O	) <u>2</u> 50 (total)	_	Without a time limit
		[ <sup>F1</sup> ]		I	1	I
		[ <sup>F1</sup> ]				
		Zinc oxide	ZnO	250 (total)	Maximum content of lead: 600 mg/kg	Without a time limit
		Zinc sulphate, heptahydrate	ZnSO <sub>4</sub> . 7H <sub>2</sub> O	250 (total)		Without a time limit
		Zinc sulphate, monohydrate	ZnSO <sub>4</sub> . H <sub>2</sub> 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 protein) Molecular weight not exceeding 1 500		amino acids hydrate	
--	---	--	------------------------	--

#### **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 descript		age	mMinimu content mg/ kg of complete feedings	content	nOther provisio	Duration nsof authorisation
E 320	Butylated hydroxya (BHA)	C <sub>11</sub> H <sub>16</sub> O <sub>2</sub> nisole	species or			150: alone or together	All feedingstu	Without affsime limit
E 321	Butylated hydroxyto (BHT)	C <sub>15</sub> H <sub>24</sub> O oluene	categories of animals except	\$				
E 324	Ethoxyqu	i£ <sub>14</sub> H <sub>19</sub> ON			—			
E 320	Butylated hydroxya (BHA)	C <sub>11</sub> H <sub>16</sub> O <sub>2</sub> nisole	Dogs			150: alone or together	The mixture of ethoxyqui with BHA and/or BHT is allowed provided the total concentration of the mixture does not exceed 150 mg/ kg of	Without a time limit in
E 321	Butylated hydroxyto (BHT)	C <sub>15</sub> H <sub>24</sub> O oluene	•			-		
E 324	Ethoxyqu	i£ <sub>14</sub> H <sub>19</sub> ON	Dogs			100		tion

		complete feedingstuff
--	--	--------------------------

# ANNEX IV

No	Additive	Chemical Species formula, or		Maximur age	mMinimu activity	mMaximu activity	nOther provisio	Duration nsof	
		descriptio <b>n</b> atego of anima		y	Unit of activity per kg of complete feedings			authorisatio	
1	3- phytase (EC 3.1.3.8)	.8) phytase produced by <i>Aspergilla</i> <i>niger</i> (CBS 114.94)	Pigs (all categories of animals)	 S				21.4.1999	
			Chickens (all categories of animals)					21.4.1999	
a 1 FTU is the amount of	having a animals) having a minimum Turkeys phytase activity of 5 000 FTU <sup>*</sup> /g for solid and liquid preparations	— 125 FTU	125 FTU		2.	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			

							kg of complete feedingstuff: 200-800 FTU
						3.	For use in compound feedingstuffs with a minimum content of 0,3 % phytate, e.g. 20 %
is the amount of and 37 °C.	of enzyme which	ch liberates 1 n	nicromole of in	norganic phosp	hate per minut	e from sodiur	wheat n phytate at

a

#### Changes to legislation:

There are currently no known outstanding effects for the Commission Regulation (EC) No 2316/98.