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## COMMISSION REGULATION (EC) No 1334/2003

of 25 July 2003

amending the conditions for authorisation of a number of additives in feedingstuffs belonging to the group of trace elements

(OJ L 187, 26.7.2003, p. 11)

# Amended by:

<u>B</u>

Official Journal

		No	page	date
► <u>M1</u>	Commission Regulation (EC) No 2112/2003 of 1 December 2003	L 317	22	2.12.2003
► <u>M2</u>	Commission Regulation (EC) No 1980/2005 of 5 December 2005	L 318	3	6.12.2005
► <u>M3</u>	Commission Implementing Regulation (EU) No 601/2013 of 24 June 2013	L 172	14	25.6.2013
<u>M4</u>	amended by Commission Implementing Regulation (EU) No 131/2014 of 11 February 2014	L 41	3	12.2.2014
<u>M5</u>	Commission Implementing Regulation (EU) No 107/2014 of 5 February 2014	L 36	7	6.2.2014

## Corrected by:

►<u>C1</u> Corrigendum, OJ L 14, 21.1.2004, p. 54 (1334/2003)

### COMMISSION REGULATION (EC) No 1334/2003

of 25 July 2003

amending the conditions for authorisation of a number of additives in feedingstuffs belonging to the group of trace elements

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Directive 70/524/EEC of 23 November 1970 concerning additives in feedingstuffs (1), as last amended by Commission Regulation (EC) No 1756/2002 (2) and in particular Articles 3, 9d and 9e thereof,

#### Whereas:

- Several additives belonging to the group of trace elements have been authorised under certain conditions in accordance with Directive 70/524/EEC, by means of Regulations (EC) No 2316/98 (3), (EC) No 639/1999 (4), (EC) No 2293/1999 (5), (EC) No 2200/2001 (6) and (EC) No 871/2003 (7).
- In the light of the evolution of scientific and technical knowledge, the maximum content of trace elements authorised in feedingstuffs has been re-examined in order to ensure an optimal application of the conditions for authorisation laid down in Article 3a of Directive 70/524/EEC.
- In the present state of scientific and technical knowledge it may be concluded that the maximum content of iron, cobalt, copper, manganese and zinc authorised in feedingstuffs in accordance with Directive 70/524/EEC should be reduced in order to better comply with the requirements laid down in Article 3a(a) and (b) of that Directive, in particular, the effects to satisfy nutritional needs, to improve animal production and to reduce harmful effects caused by animal excretions and also to minimise the adverse effects that the current levels of some trace elements have on human health and the environment
- The maximum content of trace elements authorised in feedingstuffs must be calculated taking into consideration not only physiological requirements of animals but also other aspects such as average requirements and variability of the requirements in the diet, need to meet the needs of most members of animal populations and possible inefficiencies in the use of the nutrients.
- The Scientific Committee on Animal Nutrition (SCAN) has (5) delivered an opinion on the use of copper and zinc in feedingstuffs on 19 February 2003 and 14 March 2003 respectively. The SCAN concludes that the current maximum levels of these trace

<sup>(</sup>¹) OJ L 270, 14.12.1970, p. 1. (²) OJ L 265, 3.10.2002, p. 1.

<sup>(3)</sup> OJ L 289, 28.10.1998, p. 4.

<sup>(4)</sup> OJ L 82, 26.3.1999, p. 6. (5) OJ L 284, 6.11.1999, p. 1.

<sup>(6)</sup> OJ L 299, 15.11.2001, p. 1.

<sup>(&</sup>lt;sup>7</sup>) OJ L 125, 21.5.2003, p. 3.

- elements authorised in feedingstuffs are, in the majority of the cases, higher than necessary as regards the effects of these additives and recommends a reduction of such levels in order to adapt them to the physiological animal requirements.
- (6) In accordance with the current scientific and technical knowledge concerning specifically iron in feedingstuffs, suckling pigs must retain 7 to 16 mg/kg of iron daily, or 21 mg of iron kg/body weight gain to maintain adequate levels of haemoglobin. Sows' milk contains an average of only 1 mg of iron per litre. Thus, pigs receiving only milk rapidly develop anaemia. Iron should therefore be given to piglets in complementary feedingstuffs with a high content of this element as far as, during the suckling period, piglets are only fed with milk.
- (7) It is appropriate to provide for a transitional period of six months for the implementation of the new requirements and for a transitional period of nine months for the disposal of existing stocks of feedingstuffs labelled according to the previous conditions established in accordance with Directive 70/524/EEC.
- (8) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on the Food Chain and Animal Health,

HAS ADOPTED THIS REGULATION:

### Article 1

The conditions for the authorisation of the additives E1 Iron-Fe, E3 Cobalt-Co, E4 Copper-Cu, E5 Manganese-Mn and E6 Zinc-Zn belonging to the group 'trace elements' (¹), are hereby replaced by those set out in the Annex hereto in accordance with Directive 70/524/EEC.

#### Article 2

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

It shall apply from 26 January 2004. However, existing stocks of feedingstuffs labelled according to the previous conditions established in accordance with Directive 70/524/EEC may be used during a transitional period expiring 26 April 2004.

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

<sup>(</sup>¹) The list of authorised additives, including trace elements, is published in OJ C 329/1, 31.12.2002, as amended by Regulation (EC) No 871/2003 (L 123, 21.5.2003, p. 3).

	EEC No	Element	Additive	Chemical formula and description	► <u>C1</u> Maximum content of the element in mg/kg of the complete feedingstuff ◀	Other provisions	Period of authorisation
1 Tra	ace e	elements					
Е	1	Iron-Fe	Ferrous carbonate	FeCO <sub>3</sub>	Ovine: 500 (total) mg/kg of the	of the	Without a time
			Ferrous chloride, tetrahydrate	FeCl <sub>2</sub> . 4H <sub>2</sub> O	complete feedingstuff		limit
			Ferric chloride, hexahydrate	FeCl <sub>3</sub> . 6H <sub>2</sub> O	Pet animals: 1 250 (total) mg/kg of the complete feedingstuff Pigs:		
			Ferrous citrate, hexahydrate	Fe <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub> . 6H <sub>2</sub> O			
			Ferrous fumarate	FeC <sub>4</sub> H <sub>2</sub> O <sub>4</sub>	— piglets up to one week before weaning: 250 mg/day		
			Ferrous lactate, trihydrate	Fe(C <sub>3</sub> H <sub>5</sub> O <sub>3</sub> ) <sub>2</sub> . 3H <sub>2</sub> O	— other pigs: 750 (total) mg/kg of the complete feedingstuff		
			Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	Other species: 750 (total) mg/kg of the complete feedingstuff		
			Ferrous sulphate, monohydrate	FeSO <sub>4</sub> H <sub>2</sub> O	the complete recamgature		
			Ferrous sulphate, heptahydrate	FeSO <sub>4</sub> . 7H <sub>2</sub> O			
			Ferrous chelate of amino acids,	$Fe(x)_{1-3}$ . $nH_2O$			
			hydrate	(x = anion of any amino acid derived from hydrolysed soya protein)			
				Molecular weight not exceeding 1 500			
Е	3	Cobalt-Co	<u>M3</u> ► <u>M4</u> — ◀	Co(CH <sub>3</sub> COO) <sub>2</sub> ·4H <sub>2</sub> O	► <u>C1</u> 2 (total) mg/kg of the complete feedingstuff ◀	_	Without a tim
			<u>M3</u> ► <u>M4</u> —	2CoCO <sub>3</sub> ·3Co(OH) <sub>2</sub> ·H <sub>2</sub> O			limit

EEC No	Element	Additive	Chemical formula and description	► <u>C1</u> Maximum content of the element in mg/kg of the complete feedingstuff ◀	Other provisions	Period of authorisation
		<u>M5</u> — ◀	CoCl <sub>2</sub> ·6H <sub>2</sub> O			
		<u>M3</u> ► <u>M4</u> — ◀	CoSO <sub>4</sub> ·7H <sub>2</sub> O			
		<u>M5</u> — ◀	CoSO <sub>4</sub> ·H <sub>2</sub> O			
		<u>M5</u> — ◀	Co(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O			
E 4	Copper-Cu	Cupric acetate, monohydrate	Cu(CH <sub>3</sub> COO) <sub>2</sub> ·H <sub>2</sub> O	Pigs — piglets up to 12 weeks: 170	The following declarations shall be inserted in the labelling and	Without a time limit
		Basic cupric carbonate, monohydrate	CuCO <sub>3</sub> ·Cu(OH) <sub>2</sub> ·H <sub>2</sub> O	(total)  — other pigs: 25 (total)  Bovine  1. — bovine before the start of	accompanying documents:  — For sheep:  Where the level of copper in	
		Cupric chloride, dihydrate	CuCl <sub>2</sub> ·2H <sub>2</sub> O	rumination: — milk replacers: 15	feedingstuffs exceeds 10 mg/kg: 'the level of copper in	
		Cupric methionate	$Cu(C_5H_{10}NO_2S)_2$	(total)  — other complete feeding-stuffs: 15 (total).	this feedingstuff may cause poisoning in certain breeds of sheep.'	
		Cupric oxide	CuO	2. — other bovine: 35 (total). Ovine: 15 (total) Fish: 25 (total)	— For bovines after the start of rumination:	
		Cupric sulphate, pentahydrate	CuSO <sub>4</sub> ·5H <sub>2</sub> O	Crustaceans: 50 (total) Other species: 25 (total)	Where the level of copper in feedingstuffs is less than 20 mg/kg: 'the level of copper in this feedingstuff may cause copper deficiencies in cattle grazing pastures with high contents of molybdenum or sulphur.'	
		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.			
		Copperlysine sulphate	$Cu(C_6H_{13}N_2O_2)_2\cdot SO_4$			31.3.2004 for copperlysine sulphate

EEC No	Element	Additive	Chemical formula and description	► <u>C1</u> Maximum content of the element in mg/kg of the complete feedingstuff ◀	Other provisions	Period of authorisation
E 5	Manganese- Mn	Manganous carbonate	MnCO <sub>3</sub>	Fish: 100 (total) Other species: 150 (total)	_	Without a time limit
		Manganous chloride, tetrahy-drate	MnCl <sub>2</sub> ·4H <sub>2</sub> O			
		Manganous hydrogen phosphate, trihydrate	MnHPO <sub>4</sub> ·3H <sub>2</sub> O			
		Manganous oxide	MnO			
		Manganic oxide	Mn <sub>2</sub> O <sub>3</sub>			
		Manganous sulphate, tetrahy-drate	MnSO <sub>4</sub> ·4H <sub>2</sub> O			
		Manganous sulphate, monohydrate	MnSO <sub>4</sub> ·H <sub>2</sub> O			
		Manganese chelate of amino acids hydrate	Mn (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.			
		Manganomanganic oxide	MnO Mn <sub>2</sub> O <sub>3</sub>			
Е 6	Zinc-Zn	Zinc lactate, trihydrate	Zn(C <sub>3</sub> H <sub>5</sub> O <sub>3</sub> ) <sub>2</sub> ·3H <sub>2</sub> O	Pet animals: 250 (total) Fish: 200 (total) Milk replacers: 200 (total) Other species: 150 (total)	_	Without a time limit
		Zinc acetate, dihydrate	Zn(CH <sub>3</sub> COO) <sub>2</sub> ·2H <sub>2</sub> O			
		Zinc carbonate	ZnCO <sub>3</sub>			
		Zinc chloride, monohydrate	ZnCl <sub>2</sub> ·H <sub>2</sub> O			
		Zinc oxide	ZnO ▶ <u>M2</u> ——— ◀			
		Zinc sulphate, heptahydrate	ZnSO <sub>4</sub> ·7H <sub>2</sub> O			

EEC No	Element	Additive	Chemical formula and description	► <u>C1</u> Maximum content of the element in mg/kg of the complete feedingstuff ◀	Other provisions	Period of authorisation
		Zinc sulphate, monohydrate	ZnSO <sub>4</sub> ·H <sub>2</sub> O			
		Zinc chelate of amino acids hydrate	$Zn (x)_{1-3} \cdot nH_2O$ (x = anion of any amino acid derived from hydrolysed soya protein) Molecular weight not exceeding 1 500.			