COMMISSION IMPLEMENTING REGULATION (EU) 2018/243

of 15 February 2018

concerning the authorisation of 3-hydroxybutan-2-one, pentan-2,3-dione, 3,5-dimethyl cyclopentan-1,2-dione, hexan-3,4-dione, sec-butan-3-onyl acetate, 2,6,6-trimethylcyclohex-2-en-1,4-dione and 3-methylnona-2-,4-dione as feed additives for all animal species

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1831/2003 of the European Parliament and of the Council of 22 September 2003 on additives for use in animal nutrition (1), and in particular Article 9(2) thereof,

Whereas:

- (1) Regulation (EC) No 1831/2003 provides for the authorisation of additives for use in animal nutrition and for the grounds and procedures for granting such authorisation. Article 10 of that Regulation provides for the reevaluation of additives authorised pursuant to Council Directive 70/524/EEC (²).
- (2) The substances 3-hydroxybutan-2-one, pentan-2,3-dione, 3,5-dimethyl cyclopentan-1,2-dione, hexan-3,4-dione, sec-butan-3-onyl acetate, 2,6,6-trimethylcyclohex-2-en-1,4-dione and 3-methylnona-2-,4-dione ('substances concerned') were authorised without a time limit by Directive 70/524/EEC as feed additives for all animal species. Those substances were subsequently entered in the Register of feed additives as existing products, in accordance with Article 10(1) of Regulation (EC) No 1831/2003.
- (3) In accordance with Article 10(2) of Regulation (EC) No 1831/2003 in conjunction with Article 7 thereof, an application was submitted for the re-evaluation of the substances concerned as feed additives for all animal species. The applicant requested that those additives be classified in the additive category 'sensory additives'. That application was accompanied by the particulars and documents required under Article 7(3) of Regulation (EC) No 1831/2003.
- (4) The European Food Safety Authority ('the Authority') concluded in its opinion of 19 October 2016 (3) that, under the proposed conditions of use the substances concerned do not have adverse effects on animal health, human health or the environment. The Authority has concluded that, since the substances concerned are efficacious when used in food as flavourings and their function in feed is essentially the same as in food, no further demonstration of efficacy was necessary. Therefore, that conclusion can be extrapolated to feed. The applicant withdrew the application for water for drinking, however, it should be possible to use the substances concerned within compound feeds which are subsequently administered via water.
- (5) Restrictions and conditions should be provided for to allow better control. Since safety reasons do not require the setting of a maximum content and taking into account the re-evaluation performed by the Authority, a recommended content should be indicated on the label of the additive. Where such content is exceeded, certain information should be indicated on the label of premixtures, and on the labelling of feed materials and compound feed.
- (6) The Authority noted that hazards for the skin, eye contact and respiratory exposure are recognised. Most substances are classified as irritating to the respiratory system. Consequently, appropriate protective measures should be taken. The Authority does not consider that there is a need for specific requirements of post-market monitoring. It also verified the report on the method of analysis of the feed additives in feed submitted by the Reference Laboratory set up by Regulation (EC) No 1831/2003.
- (7) The assessment of the substances concerned shows that the conditions for authorisation, as provided for in Article 5 of Regulation (EC) No 1831/2003, are satisfied. Accordingly, the use of those substances should be authorised as specified in the Annex to this Regulation.

⁽¹⁾ OJ L 268, 18.10.2003, p. 29.

⁽²⁾ Council Directive 70/524/EEC of 23 November 1970 concerning additives in feedingstuffs (OJ L 270, 14.12.1970, p. 1).

⁽³⁾ EFSA Journal 2016;14(11):4618.

- (8) Since safety reasons do not require the immediate application of the modifications to the conditions of authorisation for the substances concerned, it is appropriate to allow a transitional period for interested parties to prepare themselves to meet the new requirements resulting from the authorisation.
- (9) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

Authorisation

The substances specified in the Annex, belonging to the additive category 'sensory additives' and to the functional group 'flavouring compounds', are authorised as feed additives in animal nutrition subject to the conditions laid down in that Annex.

Article 2

Transitional measures

- 1. The substances specified in the Annex and premixtures containing those substances, which are produced and labelled before 15 September 2018 in accordance with the rules applicable before 15 March 2018 may continue to be placed on the market and used until the existing stocks are exhausted.
- 2. Feed materials and compound feed containing the substances as specified in the Annex which are produced and labelled before 15 March 2019 in accordance with the rules applicable before 15 March 2018 may continue to be placed on the market and used until the existing stocks are exhausted if they are intended for food-producing animals.
- 3. Feed materials and compound feed containing the substances as specified in the Annex which are produced and labelled before 15 March 2020 in accordance with the rules applicable before 15 March 2018 may continue to be placed on the market and used until the existing stocks are exhausted if they are intended for non-food-producing animals.

Article 3

Entry into force

This Regulation shall enter into force on the twentieth day following that of its publication in the Official Journal of the European Union.

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

Done at Brussels, 15 February 2018.

For the Commission
The President
Jean-Claude JUNCKER

				ANN	NEX				
Identifica-	Name of			Imposition, chemical formula, escription, analytical method Species or category of animal age animal mg of active substance/kg of complete feedingstuff with a moisture content of 12 % Other provisions of aut satisfied of aut satisfied mg of active substance/kg of complete feedingstuff with a moisture content of 12 %			End of period of authorisation 15.3.2028		
tion number of he additive	the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method			of authori-			
Category: S	ensory addi	tives. Functiona	l group: Flavouring compounds						
2b07051	_	3-Hydroxybutan-2-one	Additive composition 3-Hydroxybutan-2-one Characterisation of the active substance 3-Hydroxybutan-2-one Produced by chemical synthesis Purity: min. 96 % assay Chemical formula: C ₄ H ₈ O ₂ CAS number: 513-86-0 FLAVIS No: 07.051 Method of analysis (¹) For the determination of 3-hydroxybutan-2-one in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.	All animal species		_		 The additive shall be incorporated into the feed in the form of a premixture. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated. The recommended maximum content of the active substance shall be 5 mg/kg of complete feedingstuff with a moisture content of 12 %. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 %: 5 mg/kg.' The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and on the label of the premixtures and on the labelling of feed materials and compound feedingstuffs, if the content of the active substance in complete feedingstuff with a moisture content of 12 % exceeds: 5 mg/kg. 	15.3.2028

Identification number of the additive	Name of the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content mg of active substance/kg of complete feedingstuff with a moisture content of 12 %		Other provisions	End of period of authorisation	L 53/72
								6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.		EN Official Journal of the
2b07060		Pentan-2,3-dione	Additive composition Pentan-2,3-dione Characterisation of the active substance Pentan-2,3-dione Produced by chemical synthesis Purity: min. 93 % assay Chemical formula: C ₅ H ₈ O ₂ CAS number: 600-14-6 FLAVIS No: 07.060 Method of analysis (¹) For the determination of pentan-2,3-dione in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.	All animal species				 The additive shall be incorporated into the feed in the form of a premixture. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated. The recommended maximum content of the active substance shall be 5 mg/kg of complete feedingstuff with a moisture content of 12 %. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 %: 5 mg/kg.' 	15.3.2028	l of the European Union 23.2.2018

Identification number of the additive	Name of the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	of complete with a moisti	Maximum content substance/kg feedingstuff ure content of	Other provisions	End of period of authorisation	23.2.2018
								 5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and on the labelling of feed materials and compound feedingstuffs, if the content of the active substance in complete feedingstuff with a moisture content of 12 % exceeds: 5 mg/kg. 6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a mini- 		EN Official Journal of the European Union
2b07076	_	3,5-Dimethyl cyclopentan-	Additive composition	All animal	_		_	eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves. 1. The additive shall be incorporated into the feed in the form of a pre-	15.3.2028	e European Union
		1,2-dione	3,5-dimethyl cyclopentan-1,2-dione Characterisation of the active substance 3,5-dimethyl cyclopentan-1,2-dione Produced by chemical synthesis Purity: min. 97 % assay Chemical formula: C ₇ H ₁₀ O ₂	species				mixture. 2. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated.		L 53/73

Identification number of the additive	Name of the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	of complete with a moisti	Maximum content substance/kg feedingstuff are content of	Other provisions	End of period of authorisation
			CAS number: 13494-07-0 FLAVIS No: 07.076 Method of analysis (¹) For the determination of 3,5-dimethyl cyclopentan-1,2-dione in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.					 The recommended maximum content of the active substance shall be 0,5 mg/kg of complete feedingstuff with a moisture content of 12 %. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 %: 0,5 mg/kg.' The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and on the labelling of feed materials and compound feedingstuffs, if the content of the active substance in complete feedingstuff with a moisture content of 12 % exceeds: 0,5 mg/kg. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves. 	

Identification number of the additive	Name of the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content mg of active substance/kg of complete feedingstuff with a moisture content of 12 %		Other provisions	End of period of authorisation
2b07077		Hexan-3,4-dione	Additive composition Hexan-3,4-dione Characterisation of the active substance Hexan-3,4-dione Produced by chemical synthesis Purity: min. 97 % assay Chemical formula: C ₆ H ₁₀ O ₂ CAS number: 4437-51-8 FLAVIS No: 07.077 Method of analysis (¹) For the determination of hexan-3,4-dione in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.	All animal species				 The additive shall be incorporated into the feed in the form of a premixture. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated. The recommended maximum content of the active substance shall be 5 mg/kg of complete feedingstuff with a moisture content of 12 %. On the label of the additive the following shall be indicated: Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 %: 5 mg/kg. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and on the label of the premixtures and on the labelling of feed materials and compound feedingstuffs, if the content of the active substance in complete feedingstuff with a moisture content of 12 % exceeds: 5 mg/kg. 	15.3.2028

Identification number of the additive	Name of the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	of complete	Maximum content substance/kg feedingstuff are content of	Other provisions	End of period of authorisation	53/76
						12	%	6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.		EN Official Journ
2b09186		Sec-butan-3- onyl acetate	Additive composition Sec-butan-3-onyl acetate Characterisation of the active substance Sec-butan-3-onyl acetate Produced by chemical synthesis Purity: min. 98 % assay Chemical formula: C ₆ H ₁₀ O ₃ CAS number: 4906-24-5 FLAVIS No: 09.186 Method of analysis (¹) For the determination of sec-butan-3-onyl acetate in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.	All animal species				 The additive shall be incorporated into the feed in the form of a premixture. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated. The recommended maximum content of the active substance shall be 5 mg/kg of complete feedingstuff with a moisture content of 12 %. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 %: 5 mg/kg.' 	15.3.2028	Official Journal of the European Union 23.2.2018

Identification number of the additive	Name of the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	n, chemical formula, Species or Maximum mg of active subs		feedingstuff are content of	Other provisions	End of period of authorisation	23.2.2018	
								 The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and on the labelling of feed materials and compound feedingstuffs, if the content of the active substance in complete feedingstuff with a moisture content of 12 % exceeds: 5 mg/kg. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves. 		EN Official Journal of the European Union
2b07109		2,6,6-Tri- methylcyclo- hex-2-en-1,4- dione	Additive composition 2,6,6-Trimethylcyclohex-2-en-1,4- dione Characterisation of the active sub- stance 2,6,6-Trimethylcyclohex-2-en-1,4- dione Produced by chemical synthesis Purity: min. 98 % assay	All animal species				 The additive shall be incorporated into the feed in the form of a premixture. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated. 	15.3.2028	L 53/77

Identifica-	Name of		Composition should be small	Species or	Marianan	Minimum content	Maximum content		End of pe-
tion number of he additive	the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	category of animal	Maximum age	mg of active substance/kg of complete feedingstuff with a moisture content of 12 %		Other provisions	riod of authori- sation
			Chemical formula: C ₉ H ₁₂ O ₂ CAS number: 1125-21-9 FLAVIS No: 07.109 Method of analysis (¹) For the determination of 2,6,6-trimethylcyclohex-2-en-1,4-dione in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.					 3. The recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 % shall be: — 0,3 mg/kg for pigs and poultry; — 0,5 mg/kg for other species and categories. 4. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 %: — 0,3 mg/kg for pigs and poultry; — 0,5 mg/kg for other species and categories'. 5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and on the label of the premixtures and on the label of the active substance in complete feedingstuff with a moisture content of 12 % exceeds: — 0,3 mg/kg for pigs and poultry; — 0,5 mg/kg for other species and 	

Identifica-	Name of the holder		Composition, chemical formula,	Species or	Maximum	Minimum content	Maximum content		End of pe- riod
number of the additive	of authori- sation	Additive	description, analytical method	category of animal	age	of complete with a moistu	substance/kg feedingstuff are content of 2 %	Other provisions	of authori- sation
								6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves.	
2b07184		3-Methylnona-2-,4-dione	Additive composition 3-Methylnona-2-,4-dione Characterisation of the active substance 3-Methylnona-2-,4-dione Produced by chemical synthesis Purity: min. 97 % assay Chemical formula: C ₁₀ H ₁₈ O ₂ CAS number: 113486-29-6 FLAVIS No: 07.184 Method of analysis (¹) For the determination of 3-methylnona-2-,4-dione in the feed additive and in feed flavouring premixtures: Gas chromatography mass spectrometry with retention time locking GC-MS-RTL.	All animal species				 The additive shall be incorporated into the feed in the form of a premixture. In the directions for use of the additive and premixtures, the storage and stability conditions shall be indicated. The recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 % shall be: 0,3 mg/kg for pigs and poultry; 0,5 mg/kg for other species and categories. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance of complete feedingstuff with a moisture content of 12 %:	15.3.2028

Identifica- tion number of the additive	Name of the holder of authori- sation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content mg of active substance/kg of complete feedingstuff with a moisture content of 12 %		Other provisions	End of period of authorisation
								 5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixtures and on the labelling of feed materials and compound feedingstuffs, if the content of the active substance in complete feedingstuff with a moisture content of 12 % exceeds: — 0,3 mg/kg for pigs and poultry; — 0,5 mg/kg for other species and categories. 6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including breathing protection, safety glasses and gloves. 	

⁽¹⁾ Details of the analytical methods are available at the following address of the Reference Laboratory: https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports.

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