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COMMISSION IMPLEMENTING REGULATION (EU) 2022/1452

of 1 September 2022

concerning the authorisation of 3-ethylcyclopentan-1,2-dione, 4-hydroxy-2,5-dimethylfuran-3(2H)-one, 4,5-dihydro-2-methylfuran-3(2H)-one, eugenol, 1-methoxy-4-(prop-1(trans)-enyl)benzene, α -pentylcinnamaldehyde, α -hexylcinnamaldehyde and 2-acetylpyridine as feed additives for certain animal species

(Text with EEA relevance)

(OJ L 228, 2.9.2022, p. 17)

Amended by:

<u>B</u>

Official Journal

		No	page	date
<u>M1</u>	Commission Implementing Regulation (EU) 2023/585 of 15 March 2023	L 77	7	16.3.2023
<u>M2</u>	Commission Implementing Regulation (EU) 2024/2179 of 2 September 2024	L 2179	1	3.9.2024

COMMISSION IMPLEMENTING REGULATION (EU) 2022/1452

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(Text with EEA relevance)

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 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 these substances, which are produced and labelled before 22 March 2023 in accordance with the rules applicable before 22 September 2022 may continue to be placed on the market and used until the existing stocks are exhausted.
- 2. Compound feed and feed materials containing these substances as specified in the Annex which are produced and labelled before 22 September 2023 in accordance with the rules applicable before 22 September 2022 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. Compound feed and feed materials containing these substances as specified in the Annex which are produced and labelled before 22 September 2024 in accordance with the rules applicable before 22 September 2022 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.

Identification number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	complete f with a moist	Maximum content litive/kg of reedingstuff are content of %	Other provisions	End of period of authorisation
Category: 5	Sensory add	litives. Functional group: Flavouring co	mpounds					
2607057	3-Ethyl-cyclo-pentan-1,2-dione	Additive composition Preparation of 3-ethylcyclopentan-1,2-dione Characterisation of active substance3- Ethylcyclopentan-1,2-dione Produced by chemical synthesis Purity: > 90 % Chemical formula: C ₇ H ₁₀ O ₂ CAS number: 21835-01-8 FLAVIS: 07.057 Analytical method (¹) For the identification of the additive in mixtures of flavourings: — 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 conditions and stability to heat treatment shall be indicated. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance per kg of complete feedingstuff with a moisture content of 12 %: – animals farmed in marine aquaculture systems:0,05 mg; — cats, dogs and animals farmed in land-based aquaculture systems: 5 mg/kg; — other terrestrial species or categories of animals: 0,5 mg.' The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixture where the use level on the label of the premixture would result in exceeding the level referred to in point 3. 	22 September 2032

Identifi-	entifi-		Minimum content	Maximum content				
cation number of the additive	Additive	Composition, chemical formula, description, analytical method	category of animal	Maximum age	ma of addition		Other provisions	End of period of authorisation
							5. 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 skin, eye and breathing protection.	

(1) Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eu	rl-feed-additives/eurl-fa-authorisation/
eurl-fa-evaluation-reports_en	

Identifi- cation	Additive		Species or	ategory of animal age	Minimum content	Maximum content		End of period of
number of the additive		1 Composition, chemical formula, describtion, 1	category of		mg of addi- complete fe with a moistur 12 °	edingstuff e content of	Other provisions	End of period of authorisation

Category: Sensory additives. Functional group: Flavouring compounds

2b13010	4-Hyd-roxy-2,5-dimethyl-furan-3 (2H)-one	Additive composition 4-Hydroxy-2,5-dimethylfuran-3(2H)- one Characterisation of active substance4-	Cats and dogs	-	-	-	1.	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 conditions and stability to heat treatment shall be indicated.	22 2032	September
	, ,	Hydroxy-2,5-dimethylfuran-3(2H)-one						stability to heat treatment shall be indicated.		

⁽¹⁾ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identifi-			Species or		Minimum content	Maximum content	
cation number of the additive	Additive	Composition, chemical formula, description, analytical method	category of animal	Maximum age	complete f	litive/kg of Geedingstuff ure content of %	Other provisions End of period of authorisation
Category: 5	Sensory add	litives. Functional group: Flavouring co	mpounds				
2b13042	4,5- Dihydro- 2-methyl- furan-3 (2H)-one	Additive composition 4,5-Dihydro-2-methylfuran-3(2H)-one Characterisation of active substance4,5-Dihydro-2-methylfuran-3(2H)-one Produced by chemical synthesis Purity: 97 % Chemical formula: C ₅ H ₈ O ₂ CAS number: 3188-00-9 FLAVIS: 13.042 Analytical method (¹) For the identification of the additive in mixtures of flavourings: — Gas chromatography mass spectrometry with retention time locking GC-MS-RTL	Cats and dogs				 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 conditions and stability to heat treatment shall be indicated. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance per kg of complete feedingstuff with a moisture content of 12 %:

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Identifi-			Species or		Minimum content	Maximum content		
cation number of the additive	Additive	Additive Composition, chemical formula, description, analytical method Species of category of animal Maximum age		Maximum age	complete f	litive/kg of eedingstuff are content of %	Other provisions	End of period of authorisation
							by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including skin, eye and breathing protection.	
	the analytical		of the Refere	ence Laborato	ry: https://join	t-research-cent	tre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/	
Identifi-					Minimum content	Maximum content		
cation number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	mg of additive/kg of complete feedingstuff with a moisture content of 12 %		Other provisions	End of period of authorisation
Category: S	Sensory add	litives. Functional group: Flavouring co	mpounds					
2b04003	Eugenol	Additive composition Eugenol	All animal species except	-	-	-	The additive shall be incorporated into the feed in the form of a premixture.	22 September 2032
			poultry and fish				2. In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated.	
		► <u>M1</u> Produced by chemical synthesis or by the extraction from cloves or cloves oil ◀					3. On the label of the additive the following shall be indicated:	
	I		I	l	I	I		l

⁽¹⁾ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identifi-			Species or		content	content	
cation number of the additive	Additive	Composition, chemical formula, description, analytical method	category of animal Maximi		6 111:: // 6		Other provisions End of period of authorisation
Category: S	Sensory add	litives. Functional group: Flavouring co	mpounds		ı		
2b04010	1-Meth- oxy-4- (prop-1 (trans)- enyl)b- enzene	Additive composition 1-Methoxy-4-(prop-1(trans)-enyl) benzene Characterisation of active substance1- Methoxy-4-(prop-1(trans)-enyl)benzene ▶ M1 Produced by chemical synthesis or by the extraction from pine oil ◀ Purity: > 99 % Chemical formula: C₁₀H₁₂O CAS number: 4180-23-8 FLAVIS: 04.010 Analytical method (¹) For the identification of the additive in mixtures of flavourings: — Gas chromatography mass spectrometry with retention time locking GC-MS-RTL	All animal species except poultry and fish	-		-	 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 conditions and stability to heat treatment shall be indicated. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance per kg of complete feedingstuff with a moisture content of 12 %:

Minimum Maximum

		Carrier an		content	content		
Additive	Composition, chemical formula, description, analytical method	category of animal	Maximum age	complete f with a moist	eedingstuff are content of	Other provisions	End of period of authorisation
						by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including skin, eye and breathing protection.	
		of the Refere	ence Laborato	ry: https://join	i-research-cent	tre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/	
				Minimum content	Maximum content		
Additive	Composition, chemical formula, description, analytical method	category of animal	Maximum age	complete f with a moist	eedingstuff are content of	Other provisions	End of period of authorisation
Sensory add	litives. Functional group: Flavouring co	mpounds					
α-Pentyl- cinnam- aldehyde	Additive composition α-Pentylcinnamaldehyde Characterisation of active substanceα- Pentylcinnamaldehyde	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 conditions and stability to heat treatment shall be indicated.	22 September 2032
	the analytical duation-report Additive Gensory add α-Pentyl-cinnam-	Additive Composition, chemical formula, description, analytical method Composition, chemical formula, description, analytical method Composition analytical method Additive composition α-Pentylcinnam- aldehyde analytical method	Additive Composition, chemical formula, description, analytical method analytical method Sensory additives. Functional group: Flavouring compounds α-Pentylcinnamaldehyde Characterisation of active substanceα-	Additive Composition, chemical formula, description, analytical method animal the analytical methods are available at the following address of the Reference Laborato duation-reports_en Additive Composition, chemical formula, description, analytical method sample of the Reference Laborato duation-reports_en Composition, chemical formula, description, analytical method sample of the Reference Laborato duation-reports_en Additive Composition, chemical formula, description, analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference Laborato duation-reports_en Additive Composition analytical method sample of the Reference duation-reports_en Additive Composition analytical method sample of the Reference duation-reports_en Additive Composition analytical method sample of the Reference duation duation-reports_en Additive Composition analytical method sampl	Additive Composition, chemical formula, description, analytical method Species or category of animal method animal method sare available at the following address of the Reference Laboratory: https://joint.luation-reports_en Additive Composition, chemical formula, description, analytical method animal Species or category of animal mage might and content mage might and content mage might and content mage might and content mage might and complete from the analytical method animal mage might and complete from the analytical method animal mage might and complete from the analytical method animal mage might and complete from the analytical method animal mage might and complete from the analytical method animal mage might animal	Additive Composition, chemical formula, description, analytical method analytical method analytical method analytical method are available at the following address of the Reference Laboratory: https://joint-research-centluation-reports_en Additive Composition, chemical formula, description, analytical method analyti	Additive Composition, chemical formula, description, analytical method are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fia-eurl-feed-additives/eurl-fia-authorisation/luntion-reports_en Additive Composition, chemical formula, description, analytical method are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fia-eurl-feed-additives/eurl-fia-authorisation/luntion-reports_en Additive Composition, chemical formula, description, analytical method are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fia-eurl-feed-additives/eurl-fia-authorisation/luntion-reports_en Maximum age of additive/kg of complete feedingsulf with a moisture content of 12 % Sensory additives. Functional group: Flavouring compounds Composition chemical formula, description, analytical method All animal species or actinggroup and provided and p

Minimum Maximum

Identifi-			Species or	., .	Minimum content	Maximum content	
cation number of the additive	Additive	Composition, chemical formula, description, analytical method	category of animal	Maximum age	mg of additive/kg of complete feedingstuff with a moisture content of 12 %		Other provisions End of period of authorisation
		Produced by chemical synthesis Purity: min. 97 % Chemical formula: C ₁₄ H ₁₈ O CAS number: 122-40-7 FLAVIS: 05.040 Analytical method (¹) For the identification of the additive in mixtures of flavourings: — Gas chromatography mass spectrometry with retention time locking GC-MS-RTL					3. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance per kg of complete feedingstuff with a moisture content of 12 %: — animals farmed in marine aquaculture systems: 0,05 mg; — cats: 1 mg/kg; — dogs and animals farmed in land-based aquaculture systems: 5 mg/kg; — other terrestrial species or categories of animals: 0,1 mg.' 4. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixture where the use level on the label of the premixture would result in exceeding the level referred to in point 3. 5. 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

Identifi-

cation number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	mg of add complete f with a moistu	eedingstuff are content of	Other provisions	End of period of authorisation
							by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including skin, eye and breathing protection.	
	the analytical		of the Refere	ence Laborato	ry: https://join	research-cent	tre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/	
Identifi-					Minimum content	Maximum content		
cation number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	mg of additive/kg of complete feedingstuff with a moisture content of 12 %		Other provisions	End of period of authorisation
Category: S	Sensory add	litives. Functional group: Flavouring co	mpounds		•			
2b05041	α-Hexyl- cinnam- aldehyde	Additive composition α-Hexylcinnamaldehyde Characterisation of active substanceα- Hexylcinnamaldehyde Produced by chemical synthesis Purity: 95 % Chemical formula: C ₁₅ H ₂₀ O	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 conditions and stability to heat treatment shall be indicated. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance per kg of complete feedingstuff with a moisture content of 12 %: 	22 Septembe 2032

Minimum

content

Maximum

content

⁽¹⁾ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-fa-eurl-fa-eurl-fa-authorisation/eurl-fa-evaluation-reports_en

Identifi- cation number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	complete f	Maximum content litive/kg of reedingstuff are content of %		Other provisions	End of period of authorisation
Category: S	Sensory add	litives. Functional group: Flavouring con	mpounds		I	I			
2614038	2-Acetyl-pyridine	Additive composition 2-Acetylpyridine Characterisation of active substance2- Acetylpyridine Produced by chemical synthesis Purity: > 97 % Chemical formula: C ₇ H ₇ ON CAS number: 1122-62-9 FLAVIS: 14.038 Analytical method (¹) For the identification of the additive in mixtures of flavourings: — Gas chromatography mass spectrometry with retention time locking GC-MS-RTL	All animal species	-		-	 3. 4. 	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 conditions and stability to heat treatment shall be indicated. On the label of the additive the following shall be indicated: 'Recommended maximum content of the active substance per kg of complete feedingstuff with a moisture content of 12 %: — marine animals: 0,05 mg; — other species or categories of animals: 0,5 mg.' The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixture where the use level on the label of the premixture would result in exceeding the level referred to in point 3. 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	22 September 2032

⁽¹⁾ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en