ANNEX

Identification number of the additive	Name of the holder of authorisation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content mg/kg of complete feedingstuff with a moisture content of 12 %	Maximum content	Other provisions	End of period of authorisation
Category of technological additives. Functional group: silage additives									
1k280	—	Propionic acid	*Additive composition* Propionic acid ≥ 99,5 % *Characterisation of the active substance* Propionic acid ≥ 99,5 % $C_3H_6O_2$ CAS No: 79-09-4 Non-volatile residue ≤ 0,01 % when dried at 140 °C to constant weight Aldehydes ≤ 0,1 % expressed as formaldehyde Produced by	Animals —	—	—	—	1. The simultaneous use of other organic acids at the maximum permitted doses is contraindicated. 2. The additive shall be used in easy to ensile material[b]. 3. Simultaneous use with other sources of the active substance	20 December 2023
				Pigs		—	30 000		
				Poultry		—	10 000		

a Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx

b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

c As propionic acid.

					chemical synthesis				shall not exceed the authorised maximum content.
				Method of Analysis[a] Quantification of propionic acid as total propionic acid in feed additive, premixtures, feedingstuffs: ion exclusion High Performance Liquid Chromatography with refractive index (HPLC-RI)				4.	For safety: breathing protection, eye protection, gloves and protective clothing shall be used during handling.
1k281	—	Sodium propionate		*Additives — composition* Sodium propionate ≥ 98,5 % *Characterisation of the active substance* Sodium propronate ≥ 98,5 % $C_3H_5O_2Na$ CAS No: 137-40-6		Pigs	—	—	1. 20 December 2023 The simultaneous use of other organic acids at the maximum permitted doses is contraindicated.
						Poultry	—	30 000[c]	
						Fish	—	10 000[c]	2. The additive

a Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx

b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

c As propionic acid.

					Loss on drying ≤ 4 % determined by drying for two hours at 105 °C Water insolubles ≤ 0,1 % Produced by chemical synthesis				shall be used in easy to ensile materials[b].
				Method of Analysis[a] Quantification of sodium propionate in feed additive: (1)	ion exclusion High Performance Liquid Chromatography with refractive index detection (HPLC-RI) – for the determination of total			3. 4.	Simultaneous use with other sources of the active substance shall not exceed the authorised maximum content. For safety: breathing protection, eye protection, gloves and protective clothing shall be used during handling.

a Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx

b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

c As propionic acid.

				(2)	propionate; and atomic absorption spectrometry, AAS (EN ISO 6869) – for the determination of total sodium. Quantification of sodium propionate as total propionic acid in premixtures, feedingstuffs: ion exclusion High Performance Liquid Chromatography with refractive index (HPLC-RI)				
1k284	—	Ammonium propionate	Additives – *composition* Preparation of ammonium propionate ≥ 19,0 %, propionic acid	Pigs		—	—	1.	20 December 2023 The simultaneous use of other organic acids at
				Poultry		—	30 000[c]		
						—	10 000[c]		

a Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx

b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

c As propionic acid.

				≤ 80,0 % and water ≤ 30 % *Characterisation of the active substance*	Ammonium propionate: $C_3H_9O_2N$ CAS No: 17496-08-1 Produced by chemical synthesis				the maximum permitted doses is contraindicated.
								2.	The additive shall be used in easy to ensile materials[b].
				Method of Analysis[a] Quantification of the ammonium propionate in feed additive: (1)	ion exclusion High Performance Liquid Chromatography with refractive index detection (HPLC-RI) – for the determination of			3.	Simultaneous use with other sources of the active substance shall not exceed the authorised maximum content.
								4.	For safety: breathing protection, eye protection, gloves and protective clothing shall be used

a Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx

b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

c As propionic acid.

				(2)	total propionate; and titration with sulphuric acid and sodium hydroxide for the determination of ammonia.				during handling.
				Quantification of ammonium propionate as total propionic acid in premixtures, feedingstuffs: ion exclusion High Performance Liquid Chromatography with refractive index (HPLC-RI)					

a Details of the analytical methods are available at the following address of the Reference Laboratory: http://irmm.jrc.ec.europa.eu/EURLs/EURL_feed_additives/Pages/index.aspx

b Easy to ensile forage: > 3 % soluble carbohydrates in fresh material (e.g. whole plant maize, ryegrass, brome grass or sugar beet pulp). Commission Regulation (EC) No 429/2008 (OJ L 133, 22.5.2008, p. 1).

c As propionic acid.

Changes to legislation:
There are currently no known outstanding effects for the Commission Implementing Regulation (EU) No 1222/2013.