Amylomer™ CAT 531 AS+

Technical Data Sheet

1.	**INFORMATION OF INGREDIENT**	
1.1	Trade Name	Amylomer™ CAT 531 AS+
1.2	Manufacturer	URSA Chemie GmbH
1.3	Supplier	Gräfe Chemie GmbH Deichstraße 48-50 D-20459 Hamburg, Germany Tel.: +49 - (0)40 – 7602638 E-Mail: info@graefe-naturchemie.de

2.	**PRODUCT DESCRIPTION**		
2.1	Raw Material category/ function	Hair/Skin Conditioning; Antistatic; Viscosity Controlling; Emulsion Stabilising	
2.2	Ingredients according to INCI	Water (US)/Aqua (EU); Starch Hydroxypropyltrimonium Chloride; Sodium Lactate; Sodium Chloride; Urea; Lactic Acid; Sodium Benzoate	
2.2.1	**Composition (INCI)**		
	Components	**Source**	**Percentage [%]**
	Water/Aqua		68
	Starch Hydroxypropyl Trimonium Chloride	vegetable/synthetic	21,6
	Sodium Lactate	vegetable/organic	4,5
	Urea	synthetic	0,6
	Sodium Chloride	synthetic	2,0
	Lactic Acid	Vegetable/organic	3,0
	Sodium Benzoate	Vegetable/organic	0,3
2.3	EINECS / ELINCS	231-791-2; Polymer; 200-772-0/ 212-762-3; 231-598-3; 200-315-5; 200-018-0/201-196-2; 208-534-8	
	CAS-no.	7732-18-5; 56780-58-6; 72-17-3/ 867-56-1; 7647-14-5; 57-13-6; 50-21-5/79-33-4; 532-32-1	
	Registration Status	Europe: registered in EU-Inventory US: CTFA-registered	

3.	**MANUFACTURING INFORMATION**	
3.1	Origin of starting material	Potato/Rice Starch
3.2	**Description of manufacturing process** Amylomer™ CAT 531 AS+ is a chemical reaction of potato and rice starch with Chlorohydroxypropyl trimonium chloride Irridiation: Amylomer™ CAT 531 AS+ was not irradiated with y-rays. Amylomer™ CAT 531 AS+ is produced in the absence of any animal derived material of any type. Based on the information on the manufacturing process and production site no contamination with BSE/ TSE risk materials is to be expected.	

	Origin of plant based materials (dominant origin of constituents): potato CITES: Amylomer™ CAT 531 AS+ not based on raw materials from species listed in CITES appendices. **GMO-Status** During the production no GMOs and derivatives from GMOs are used. All reasonable measures have been taken to avoid cross-contamination with GMOs or derivatives from GMOs.

4.	**SPECIFICATION**	
4.1	Dry substance Density [g/ml] pH DIN 19268 Viscosity (Brookfield, LVT) Sodium Benzoate (HPLC)	31 – 33 % 1,12 ± 2 g/ml ~ 3,4 – 4,3 500 – 1000 mPa*s 0,3% ± 0,03 %

5.	**Microbiological Specification**	
5.1	Total Bacterial Count Aerobes (cfu/g) Yeast and Moulds (cfu/g)	<10 <10

6.	**Impurities**	
6.1	1,4-Dioxan	Not to be expected
6.2	Ethylenoxide	Not to be expected
6.3	Residual Solvent	Not to be expected
6.4	Monomers	Not to be expected
6.5	Free Amines	Not to be expected
6.6	Nitrosamines	Not to be expected
6.7	Pesticides	HCH, DDT, DDE, Dichlofenthion, PCBs (detection limit 0,03 ppm)
6.8	Polyaromatic Hydrocarbons	No data available
6.9	Other Impurities	Aflatoxine B1, B2, G1, G2: not detectable (detection limit 4 µg/kg)
6.10	Formaldehyde	Not to be expected
6.11	Nano-, Microplastic (FTIR)	PE 27
6.12	Heavy Metals	Mo, Cu, Zn, Mn, Se, Ba < 0,5 mg/kg, Fe <1 mg/kg, Pd, As, Ni, Co, V < 0,1 mg/kg, Pb, Cd; Sb <0.05mg/kg, Hg <0,02 mg/kg

7.	**Shelf life / storage Conditions**
7.1	24 months after production (unopened original packaging)

8.	**Regulatory Status**			
8.1	HS-Code EU-CN-Code		350510 35051050	
8.2	**Regulatory status (chemical regulations) Europa**			
	Components	**Reach Status**	**CAS.No**	**EINECS / EC No.**
	Water/Aqua	Exempt (Annex IV)	7732-18-5	231-791-2
	Starch Hydroxypropyl	Polymer	56780-58-6	Polymer

	Trimonium Chloride			
	Sodium Lactate	Exempt (Annex V, no. 5)	72-17-3 867-56-1	200-772-0 212-762-3
	Sodium Chloride	Exempt (Annex V, no. 5)	7647-14-5	231-598-3
	Lactic Acid	01-2119474164-39-0000	79-33-4	201-196-2
	Urea	01-2119463277-33-xxxx	57-13-6	200-315-5
	Sodium Benzoate	01-2119460683-35-0000	532-32-1	208-534-8

9.	**TOXICOLOGY**	
9.1	Acute Toxicology	No data available
9.2	Acute Dermal Toxicity	Not expected
9.3	Skin Irritation	Not irritant (HRIPT)
9.4	Eye Irritation	Irritating
9.5	Mutagenicity, Cancerogenity, Teratogenicity	Not mutagenic
9.6	Genotoxicity (e.g. Ames-Test)	GMO free
9.7	Percutaneous Permeation	As the product is a polymer, no percutaneous penetration is expected
9.8	Subchronic Toxicitytests	No data available
9.9	Teratogenicity	No data available
9.10	Toxicokinetics	No data available
9.11	Additional Toxicitytests	No data available
9.12	Phototoxicity	No data available
9.13	Photosensitization	No data available
9.14	Inhalative Toxicity	No data available

10.	**HUMAN EXPERIENCE**	
10.1	Data on Human Dermal Irritation	Does not cause any relevant irritation in humans (HRIPT).
10.2	Data on Human Sensitization	Does not cause any sensitization in humans (HRIPT).

11.	**ECOLOGICAL DATA**	
11.1	Biodegradability (OECD 302B)	Readily Biodegradable
11.2	Aquatic Toxicity	No data available
11.3	Water Endangering Class	1 (self-classification based on AwSV)
11.4	Bioaccumulation Potential	No data available
11.5	Other Information	None

12.	**DERMATOLOGICAL ANALYSIS**	Certificated with **excellent**

13.	INDEX ISO 16128-1 & -2:2017 for natural ingredients				
	Natural substance content calculation	Natural content	natural origin content	organic content	organic origin content
	Formulation components with formulation water	0.00 %	91,44 %	-/-	-/-

14.	**SAFETY DATA SHEET**	see attachment sd35697_-_AMYLOMER_CAT_531_AS+