

Amylomer™ CAT 531

Technical Data Sheet

1. INFORMATION OF INGREDIENT	
1.1	Trade Name Amylomer™ CAT 531
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)																								
	<table border="1"> <thead> <tr> <th>Components</th> <th>Source</th> <th>Percentage [%]</th> </tr> </thead> <tbody> <tr> <td>Water/Aqua</td> <td></td> <td>68</td> </tr> <tr> <td>Starch Hydroxypropyl Trimonium Chloride</td> <td>vegetable/synthetic</td> <td>20,0</td> </tr> <tr> <td>Sodium Lactate</td> <td>vegetable/organic</td> <td>4,9</td> </tr> <tr> <td>Urea</td> <td>synthetic</td> <td>2,2</td> </tr> <tr> <td>Sodium Chloride</td> <td>synthetic</td> <td>1,6</td> </tr> <tr> <td>Lactic Acid</td> <td>Vegetable/organic</td> <td>3,0</td> </tr> <tr> <td>Sodium Benzoate</td> <td>Vegetable/organic</td> <td>0,3</td> </tr> </tbody> </table>	Components	Source	Percentage [%]	Water/Aqua		68	Starch Hydroxypropyl Trimonium Chloride	vegetable/synthetic	20,0	Sodium Lactate	vegetable/organic	4,9	Urea	synthetic	2,2	Sodium Chloride	synthetic	1,6	Lactic Acid	Vegetable/organic	3,0	Sodium Benzoate	Vegetable/organic	0,3
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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 Starch
3.2	Description of manufacturing process Amylomer CAT 531 manufactured by mixing the single ingredients Amylomer™ CAT 531 is a chemical reaction of potato and rice starch with Chlorohydroxypropyl trimonium chloride Irridiation: Amylomer™ CAT 531 was not irradiated with y-rays.

	<p>Amylomer™ CAT 531 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.</p> <p>Origin of plant based materials (dominant origin of constituents): potato</p> <p>CITES: Amylomer™ CAT 531 not based on raw materials from species listed in CITES appendices.</p> <p>GMO-Status</p> <p>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</p>
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4.	SPECIFICATION	
4.1	Dry substance Density [g/ml] pH DIN 19268 Viscosity (Brookfield, LVT) Sodium Benzoate (HPLC)	31,5-32,5 % 1,12 ± 2 g/ml ~ 3,5 – 4,1 150 – 500 mPa*s 0,3% ± 0,03 %

5.	Microbiological Specification	
5.1	Total Plate Count (KBE/g) TAMC EAB 5	<10

6.	Impurities	
6.1	1,4-Dioxan	Not to be expected
6.1.2	Ethylenoxide	Not to be expected
6.1.3	Residual Solvent	Not to be expected
6.1.4	Monomers	Not to be expected
6.1.5	Free Amines	Not to be expected
6.1.6	Nitrosamines	Not to be expected
6.1.7	Pesticides	Not detectable (detection limit 0,1 ppm)
6.1.8	Polyaromatic Hydrocarbons	No data available
6.1.9	Other Impurities	Aflatoxine B1, B2, G1, G2: not detectable (detection limit 4 µg/kg)
6.1.10	Formaldehyde	Not to be expected
6.1.11	Nano-, Microplastic	PP 5
6.1.12	Heavy Metals	max 20 ppm (each < 1ppm As, Cd, Co, Cr, Hg, Ni, Pb, Sb)

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 Trimonium Chloride	Polymer	56780-58-6	Polymer
	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	79-33-4	201-196-2
	Urea	01-2119463277-33	57-13-6	200-315-5
	Sodium Benzoate	01-2119460683-35	532-32-1	208-534-8

9.	TOXICOLOGY	
9.1	Acute Oral Toxicity	2000 mg/kg
9.2	Acute Dermal Toxicity	Not expected
9.3	Skin Irritation	Not irritating (HRIPT)
9.4	Eye Irritation	Not irritating (30% aqueous solution)
9.5	Skin Sensitization	Not sensitizing (HRIPT)
9.6	Genotoxicity (e.g. Ames-Test) Mutagenicity, Cancerogenity, Teratogenity	GMO free Not mutagenic
9.7	Percutaneous Permeation	As the product is a polymer, no percutaneous penetration is expected
9.8	Subchronic Toxicitytests	No data available
9.9	Teratogenity	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 induce any relevant irritation in humans (HRIPT).
10.2	Data on Human Sensitization	Does not induce any sensitization in humans (HRIPT).

11.	ECOLOGICAL DATA	
11.1	Biodegradability (OECD)	Readily biodegradable
11.2	Aquatic Toxicity (OECD 202)	EC 50 (48h) 53,29 mg/L
11.3	Water Endangering Class	2 (self-classification based on AwSV)
11.4	Bioaccumulation Potential	No data available
11.5	Other Information	None

12.	DERMATOLOGICAL ANALYSIS	Certificated with "excellent"
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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 %	93,64 %	-/-	-/-

14.	SAFETY DATA SHEET	see attachment: sd34227A_-_Amylomer CAT 531
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