Amylomer™ HA-CAT 75

Technical Data Sheet

1.	INFORMATION OF INGREDIENT	
1.1	**Trade Name**	Amylomer HA-CAT 75
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 http://www.graefe-naturchemie.de

2	PRODUCT DESCRIPTION		
2.1	**Raw material category/function**	Hair/Skin conditioning; Film forming; Humectant	
2.2	**Ingredients according to INCI**	Water (US)/Aqua (EU); Hydroxypropyl Oxidized Starch PG-Trimonium Chloride; Sodium Lactate; Sodium Chloride; Lactic Acid; Sodium Benzoate	
2.2.1	**Composition (INCI)**		
	Components	**Source**	**Percentage [%]**
	Water/Aqua		60
	Hydroxypropyl Oxidized Starch PG-Trimonium Chloride	vegetable/synthetic	29,0
	Sodium Lactate	vegetable/organic	4,7
	Sodium Chloride	synthetic	3,0
	Lactic Acid	Vegetable/organic	3,0
	Sodium Benzoate	Vegetable/organic	0,3
2.2.2	EINECS / ELINCS	231-791-2; Polymer; 200-772-0; 231-598-3; 200-018-0/201-196-2; 208-534-8	
2.2.3	CAS-no.	7732-18-5; 222021-85-4; 72-17-3/ 867-56-1; 7647-14-5; 50-21-5/79-33-4; 532-32-1	
2.2.4	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 HA CAT 75 is chemical reaction of potatoe starch with Chlorohydroxypropyl trimonium chloride Irridiation: Amylomer HA-CAT 75 was not irradiated with y-rays. Amylomer HA- CAT 75 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 HA-CAT 75 is 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)	39,5 – 40,5 % 1,16 ± 1 g/ml ~ 3,5 – 4,1 350 – 500 mPa*s 0,3% ± 0,0,03 %

5.	**Microbiological Specification**	
5.1	Total Viable Count (KBE/g) TAMC EAB 5	< 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	Not detectable (detection limit 0,1 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	PE, PP, PVC 47
6.12	Heavy Metals	(max. 10 ppm) <1; As, Sb, Pb, Ni <0,1; Cd, Hg, <5; Fe

7.	**Shelf life / storage Conditions**
	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
	Hydroxypropyl Oxidized Starch PG-Trimonium Chloride	Polymer	222021-85-4	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
	Sodium Benzoate	01-2119460683-35	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 irritating (pure substance 25 mg/cm³ (HRIPT))
9.4	Eye Irritation	Irritating
9.5	Skin Sensitization	Not sensitizing (pure substance 25 mg/cm³) (HRIPT)
9.6	Mutagenicity, Cancerogenity, Teratogenicity	Not mutagenic
9.7	Genotoxicity (e.g. Ames-Test)	GMO free
9.8	Percutaneous Permeation	As the product is a polymer, no percutaneous penetration is expected
9.9	Subchronic Toxicitytests	No data available
9.10	Teratogenicity	No data available
9.11	Toxicokinetics	No data available
9.12	Additional Toxicitytests	No data available
9.13	Phototoxicity	No data available
9.14	Photosensitization	No data available
9.15	Inhalative Toxicity	No data available

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

11.	ECOLOGICAL DATA	
11.1	Biodegradability (OECD 302 B)	Readily Biodegradable
11.2	Aquatic Toxicity (OECD 201)	EC_{50} >100 mg/L
11.3	Water Endangering Class (WGK)	2 (Self-classification based on AwSV Germany)
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	**83,10%**	-/-	-/-

14.	SAFETY DATA SHEET	see attached document: sd34823_AMYLOMER_HA-CAT_75