Amylomer™ H-Care05

Technical Data Sheet

1.	**INFORMATION OF INGREDIENT**	
1.1	Trade Name	Amylomer™ H-Care05
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;	
2.2	Ingredients according to INCI	Water (US)/Aqua (EU); Hydroxypropyl Oxidized Starch PG Trimonium Chloride; Sodium Lactate; Lactic Acid; Sodium Chloride; Sodium Benzoate	
2.2.1	**Composition (INCI)**		
	Components	**Source**	**Percentage [%]**
	Water/Aqua		61,30
	Hydroxypropyl Oxidized Starch PG Trimonium Chloride	vegetable/synthetic	26,18
	Sodium Lactate	vegetable/organic	7,09
	Lactic Acid	Vegetable/organic	4,70
	Sodium Chloride	synthetic	0,42
	Sodium Benzoate	Vegetable/organic	0,31
2.3	EINECS / ELINCS	231-791-2; Polymer; 200-772-0/ 212-762-3; 200-018-0/201-196-2; 231-598-3; 208-534-8	
	CAS-no.	7732-18-5; 222021-85-4; 72-17-3/ 867-56-1; 50-21-5/79-33-4; 7647-14-5; 532-32-1	
	Registration Status	Europe: registered in EU-Inventory US: CTFA-registered	

3.	**MANUFACTURING INFORMATION**	
3.1	Origin of starting material	Potato Starch made in Germany
3.2	**Description of manufacturing process** Amylomer™ H-Care05 is a chemical reaction of potato starch with Chlorohydroxypropyl trimonium chloride Irridiation: Amylomer™ H-Care05 was not irradiated with y-rays. Amylomer™ H-Care05 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™ H-Car05 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	Active Content [%] Density [g/ml] pH DIN 19268 Viscosity (Brookfield, LVT)	26,18 % 1,115 ± 3 g/ml ~ 3,5 – 4,1 350 – 550 mPa*s

5.	**Microbiological Specification**	
5.1	Total Bacterial Count Aerobes (KBEg) 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 (FTIR)	PE, PP, PVC 47
6.12	Heavy Metals (ppm)	(max. 10 ppm) <1; As, Sb, Pb, Ni <0,1; Cd, Hg, <5; Fe

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
	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	Reg. no. 01-2119474164-39	79-33-4	201-196-2
	Sodium Benzoate	Reg. no. 01-2119460683-35	532-32-1	208-534-8

9.	**TOXICOLOGY**	
9.1	Acute Toxicology	No data available
9.2	Cytotoxicity (EN-ISO 10993-5)	Cytotoxic potential
9.3	Skin Irritation (OECD 439)	Not irritant
9.4	Eye Irritation (OECD 437)	Not 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)	64,4 % (28d) (analogous to HA-CAT 75)
11.2	Aquatic Toxicity (OECD 202) LC_{50}/96 h EC_{50}/48 h EC_{50}/72 h	 130mg/l 130 mg/lL >2,8 mg/l
11.3	Water Endangering Class	2 (self-classification based on AwSV)
11.4	Other Information	None

12.	**DERMATOLOGICAL ANALYSIS**	Certificated with **excellent (derived)**

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	**98,65%**	-/-	-/-

14.	**SAFETY DATA SHEET**	see attachment sd36503_AMYLOMER_ H-Care05