

## Amylomer™ HA-NI

### Technical Data Sheet

<b>1.</b>	<b>INFORMATION OF INGREDIENT</b>	
1.1	Trade Name	Amylomer HA-NI
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
1.4	Ingredient Category	Hair/Skin conditioning; Film forming; Humectant

<b>2.</b>	<b>PRODUCT DESCRIPTION</b>		
2.1	Raw Material category/ function	Hair/Skin conditioning; Film forming; Humectant	
2.2	Ingredients according to INCI	Water (US)/Aqua (EU); Sodium Hydroxypropyl Oxidized Starch Succinate; Urea; Sodium Lactate; Lactic Acid; Glycerin, Sodium Levulinate, Sodium Anisate	
<b>2.2.1</b>	<b>Composition (INCI)</b>		
	<b>Components</b>	<b>Source</b>	<b>Percentage [%]</b>
	Water/Aqua		59,5
	Sodium Hydroxypropyl Oxidized Starch Succinate	vegetable/synthetic	23,6
	Sodium Lactate	vegetable/organic	9,5
	Urea	synthetic	4,5
	Lactic Acid	Vegetable/organic	1,6
	Glycerin	Vegetable/organic	0,9
	Sodium Levulinate	Vegetable/ organic	0,3
	p-Anisic Acid	synthetic	0,1
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; 200-289-5; 243-378-4; 202-818-5	
	CAS-no.	7732-18-5; 764692-96-8; 72-17-3/ 867-56-1; 7647-14-5; 57-13-6; 50-21-5/79-33-4; 56-81-5; 19856-23-6; 100-09-4	
	Registration Status	Europe: registered in EU-Inventory US: CTFA-registered	

<b>3.</b>	<b>MANUFACTURING INFORMATION</b>	
3.1	Origin of starting material	Potato Starch
3.2	<b>Description of manufacturing process</b> Amylomer™ HA-NI manufactured by mixing the single ingredients Amylome™r HA-NI is manufactured by the conversion of food grade hydroxypropyl starch with succinic anhydride Irridiation: Amylomer™ HA-NI was not irradiated with γ-rays.	



	<p>Amylomer™ HA-NI 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™ HA-NI not based on raw materials from species listed in CITES appendices.</p> <p><b>GMO-Status</b></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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<b>4.</b>	<b>SPECIFICATION</b>	
4.1	Dry substance Density [g/ml] pH DIN 19268 Viscosity (Brookfield, LVT)	39,5-41,5 % 1,165 ± 2 g/ml ~ 4,6 – 5,2 200 – 600 mPa*s

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

<b>6.</b>	<b>Impurities</b>	
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, PET 47
6.1.12	Heavy Metals	Ba, Cr, Cu, Zn <5 ppm; Sb, Ni < 2 ppm; As, Pb <1 ppm: Cd, Hg 1 ppm: Cd, Hg < 0,1 ppm

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



<b>8.</b>	<b>Regulatory Status</b>			
8.1	HS-Code EU-CN-Code		350510 35051050	
<b>8.2</b>	<b>Regulatory status (chemical regulations) Europa</b>			
	<b>Components</b>	<b>Reach Status</b>	<b>CAS.No</b>	<b>EINECS / EC No.</b>
	Water/Aqua	Exempt (Annex IV)	7732-18-5	231-791-2
	Sodium Hydroxypropyl Oxidized Starch Succinate	Polymer	764692-96-8	Polymer
	Sodium Lactate	Exempt (Annex V, no. 5)	72-17-3 867-56-1	200-772-0 212-762-3
	Urea	Reg. No. 01-2119463277-33	57-13-6	200-315-5
	Lactic Acid	Reg. No. 01-2119474164-39	79-33-4	201-196-2
	Glycerin	Exempt (Annex V, no. 9)	56-81-5	200-289-5
	Sodium Levulinate	Reg. No. 01-2120764150-64	19856-23-6	243-378-4
	p-Anisic Acid	Reg. No. 01-2120767067-48	100-09-4	202-818-5

<b>9.</b>	<b>TOXICOLOGY</b>	
9.1	Acute Toxicology	No data available
9.2	Dermal Irritation	Not irritant (HRIPT)
9.3	Eye Toxicology	Not Toxic
9.4	Mucous Irritation	Not irritant
9.5	Sensitization	Not sensitizing (HRIPT)
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

<b>10.</b>	<b>HUMAN EXPERIENCE</b>	
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).

<b>11.</b>	<b>11.</b>	<b>ECOLOGICAL DATA</b>	
11.1	11.1	Biodegradability (OECD)	Readily Biodegradable
11.2	11.2	Aquatic Toxicity (OECD 201)	EC <sub>50</sub> >100mg/L
11.3	6.3	Water Endangering Class (WGK)	1 (self-classification based on AwSV Germany)
11.4	6.4	Bioaccumulation Potential	No data available
11.5	6.5	Other Information	None

<b>12.</b>	<b>DERMATOLOGICAL ANALYSIS</b>	Certificated with "excellent"
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<b>13.</b>	<b>INDEX ISO 16128-1 &amp; -2:2017 for natural ingredients</b>				
	<b>Natural substance content calculation</b>	Natural content	natural origin content	organic content	organic origin content
	<b>Formulation components with formulation water</b>	0,00	92,10%	-/-	-/-

<b>14.</b>	<b>SAFETY DATA SHEET</b>	see attachment sd34861_-_AMYLOMER_HA-NI (6)_(EU)
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