

## Safety data sheet according to 1907/2006/EC, Article 31

Version number 5 (replaces version 4)

Issue: 31.05.2023

# Printing date 31.05.2023 Vers

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: AMYLOMER H-CARE05
- UFI: 7500-C029-G00E-DPNN
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture antistatic agent
- 1.3 Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Gräfe Chemie GmbH Deichstraße 48-50 D-20459 Hamburg

Tel. +49 (0)40 7602638

- Further information obtainable from: Melanie Günther Mail: info@graefe-chemie.de
- **1.4 Emergency telephone number:** Poison Information Center North Tel. +49 551 19240 medical advice in German and English

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:
- L-Lactic acid (2-hydroxy propionic acid)
- · Hazard statements
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- Precautionary statements
- P280 Wear protective gloves / eye protection / face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.



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## · 2.3 Other hazards

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- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

· Description: cationic solution based on modified starch ether

#### Dangerous components:

CAS: 79-33-4	L-Lactic acid (2-hydroxy propionic acid)	<del>&gt;</del> 3-<5%
	Skin Corr. 1C, H314; Eye Dam. 1, H318, EUH071	20-10/0
Index number: 607-743-00-5		
Reg.nr.: 01-2119474164-39		
Reg.III 01-2119474104-39		

#### ·SVHC

None of the ingredients is listed.

· Additional information For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

- After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately rinse with water.
- After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

## **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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# 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### · 6.4 Reference to other sections

No dangerous substances are released. See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· PNECs		
79-33-4 L-Lactic acid (2-hydroxy propionic acid)		
PNEC	10 mg/l (sewage treatment plant)	
PNEC aqua	1.3 mg/l (freshwater)	

· Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.
- Hand protection



Protective gloves (EN 374)

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.



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#### · Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

## Eye/face protection

Safety glasses

· Body protection: Protective work clothing.

## **SECTION 9: Physical and chemical properties**

#### · 9.1 Information on basic physical and chemical properties · General Information · Colour: Light yellow · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: undetermined · Boiling point or initial boiling point and boiling range 100 °C · Flash point: Not applicable · pH at 20 °C 3.8 (DIN 19268) · Viscosity: · dynamic at 20 °C: ~ 400 mPas (Brookfield (LVT)) Solubility · Water: Fully miscible Vapour pressure at 20 °C: 23 hPa Density and/or relative density Density at 20 °C: ~ 1.16 g/cm<sup>3</sup> (DIN 51757) · 9.2 Other information · Appearance: Fluid · Form: · Important information on protection of health and environment, and on safety. · Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Product does not present an explosion hazard. · Information with regard to physical hazard classes · Explosives not applicable · Flammable gases not applicable · Aerosols not applicable · Oxidising gases not applicable · Gases under pressure not applicable · Flammable liquids not applicable · Flammable solids not applicable · Self-reactive substances and mixtures not applicable · Pyrophoric liquids not applicable Pyrophoric solids not applicable

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<ul> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable</li> </ul>	not applicable
gases in contact with water	not applicable
· Oxidising liquids	not applicable
· Oxidising solids	not applicable
<ul> <li>Organic peroxides</li> <li>Corrosive to metals</li> </ul>	not applicable not applicable
· Desensitised explosives	not applicable

## **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

79-33-4 L-Lactic acid (2-hydroxy propionic acid)

Oral LD<sub>50</sub> 3,543 mg/kg (Rat (Female)) (EPA OPP 81-1)

Dermal LD<sub>50</sub> >2,000 mg/kg (rabbit) (EPA OPP 81-2)

222021-85-4 Starch, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

Cytotoxicity (EN-ISO 10993-5)

Skin corrosion/irritation

Causes skin irritation

## 222021-85-4 Starch, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride

Irritation of skin OECD 439 (human skin model)

Serious eye damage/irritation

Causes serious eye damage.

**222021-85-4 Starch, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride** Irritation of eyes OECD 437 (Bovine Corneal Opacity and Permeability)

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Germ cell mutagenicity

222021-85-4 Starch, 2-hydroxypropyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride Ames-Test | (OECD 471)

• Carcinogenicity Based on available data, the classification criteria are not met.

• Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure Based on available data, the classification criteria are not met.



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• STOT-repeated exposure Based on available data, the classification criteria are not met.

# • Aspiration hazard Based on available data, the classification criteria are not met.

#### · Additional toxicological information:

The product was not tested. The statements is derived from the characteristics of the single components.

- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

#### · 12.1 Toxicity

#### · Aquatic toxicity:

#### 79-33-4 L-Lactic acid (2-hydroxy propionic acid)

LC<sub>50</sub>/96 h 130 mg/l (Oncorhynchus mykiss)

EC<sub>50</sub>/48 h 130 mg/l (Daphnia magna) (OECD 202)

EC<sub>50</sub>/72 h >2.8 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

• 12.2 Persistence and degradability No further relevant information available.

· Other Information: No data available

• **12.3 Bioaccumulative potential** No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

#### · 12.5 Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- <sup>12.6</sup> Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- Additional ecological information:
- General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation Must be specially treated adhering to official regulations.
- · Waste disposal key:

The allocation of the waste disposal key number is to be executed after the European refuse catalog industry and process specifically.

- Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

• **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## **SECTION 14: Transport information**

- · 14.1 UN number or ID number
- · ADR, ADN, IMDG, IATA

not applicable



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<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not applicable	
· 14.4 Packing group · ADR, IMDG, IATA	not applicable	
· 14.5 Environmental hazards:	Not applicable.	
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according to IMO instruments</li> <li>Not applicable.</li> </ul>		
· UN "Model Regulation":	not applicable	

# **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· Regulation (EU) No 649/2012

None of the ingredients is listed.

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

## Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations

Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water. AwSV (Germany), Attachment 1 (5.2)

• MAL-Code: 5-4

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· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information** This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Classification according to Regulation (EC) No 1272/2008 Skin corrosion/irritation The classification of the mixture is generally based on the calculation Serious eye damage/eye irritation method using substance data according to Regulation (EC) No 1272/2008. · Department issuing SDS: Department laboratory Version number of previous version: 3 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ALD: Approximate Lethal Dose ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Skin Corr. 1C: Skin corrosion/irritation - Category 1C Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 - EU ----