

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

Printing date 12.04.2022

Version number 4 (replaces version 3)

Issue: 12.04.2022

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

#### · 1.1 Product identifier

· Trade name: **AMYLOMER CARE25**  
· UFI: 4KW0-V0HP-V002-ADQG

· 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:  
GräfeChemie GmbH  
Deichstraße 48-50  
D-20459 Hamburg

Tel. +49 (0)40 7602638

#### · Further information obtainable from:

Melanie Günther  
Mail: [info@graefe-chemie.de](mailto: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 Irrit. 2 H319 Causes serious eye irritation.

#### · 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



GHS07

##### · Signalword Warning

##### · Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

##### · 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.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### · 2.3 Other hazards

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

· PBT: Not applicable.

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· **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 EINECS:201-196-2 Indexnumber:607-743-00-5 Reg.nr.: 01-2119474164-39	L-Lactic acid (2-hydroxy propionic acid) Skin Corr. 1C, H314; Eye Dam. 1, H318, EUH071	≥2.5-<3%
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· **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**· **General information** No special measures required.· **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.· **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**CO<sub>2</sub>, 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:** Wear self-contained respiratory protective device.

### 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.· **6.3 Methods and material for containment and cleaning up:**

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

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### 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

#### **79-33-4L-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.

### · Penetration time of glove material

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

Because of the large variety of types, the instructions of the manufacturer must be observed.

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· **Eye/faceprotection**



Safetyglasses

· **Bodyprotection:** Protectivework clothing.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **GeneralInformation**

· <b>Colour:</b>	Lightyellow
· <b>Odour:</b>	Characteristic
· <b>Odourthreshold:</b>	Notdetermined.
· <b>Meltingpoint/freezingpoint:</b>	undetermined
· <b>Boiling point or initial boiling point and boiling range</b>	100 °C (7732-18-5 water, distilled, conductivity or of similarpurity)
· <b>Flashpoint:</b>	Notapplicable
· <b>pH at 20 °C</b>	3.8 (DIN 19268)
· <b>Viscosity:</b>	
· <b>Kinematicviscosity</b>	Notdetermined.
· <b>dynamic at 20 °C:</b>	400-800mPas
· <b>Solubility</b>	
· <b>Water:</b>	Fullymiscible
· <b>Vapour pressure at 20 °C:</b>	23 hPa (7732-18-5 water, distilled, conductivity or of similarpurity)
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	1.11 g/cm <sup>3</sup> (DIN 51757)

· **9.2Otherinformation**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosiveproperties:</b>	Product does not present an explosion hazard.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	notapplicable
· <b>Flammablegases</b>	notapplicable
· <b>Aerosols</b>	notapplicable
· <b>Oxidisinggases</b>	notapplicable
· <b>Gasesunderpressure</b>	notapplicable
· <b>Flammableliquids</b>	notapplicable
· <b>Flammablesolids</b>	notapplicable
· <b>Self-reactivesubstancesandmixtures</b>	notapplicable
· <b>Pyrophoricliquids</b>	notapplicable
· <b>Pyrophoricsolids</b>	notapplicable
· <b>Self-heatingsubstancesandmixtures</b>	notapplicable
· <b>Substancesand mixtures, which emit flammable gases in contact with water</b>	notapplicable

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· <b>Oxidising liquids</b>	not applicable
· <b>Oxidising solids</b>	not applicable
· <b>Organic peroxides</b>	not applicable
· <b>Corrosive to metals</b>	not applicable
· <b>Desensitised explosives</b>	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.

- **LD/LC50 values relevant for classification:**

#### 79-33-4L-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)

#### 56780-58-6 Starch, 2-hydroxy-3-trimethylammonio propylether, chloride

Cytotoxicity	(EN-ISO 10993-5)
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- **Skin corrosion/irritation**  
Causes skin irritation.

#### 56780-58-6 Starch, 2-hydroxy-3-trimethylammonio propylether, chloride

Irritation of skin	OECD 439	(human skin model)
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- **Serious eye damage/irritation**

Causes serious eye irritation.

#### 56780-58-6 Starch, 2-hydroxy-3-trimethylammonio propylether, chloride

Irritation of eyes	OECD 437	(Bovine Corneal Opacity and Permeability)
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- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.

#### 56780-58-6 Starch, 2-hydroxy-3-trimethylammonio propylether, chloride

Ames-Test	(OECD 471)
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- **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.
- **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.

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· **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**

· **Endocrinedisruptingproperties**

None of the ingredients is listed.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatictoxicity:**

EC<sub>50</sub>/48 h | 53.29 mg/l (Daphnia magna) (OECD 202)

**79-33-4L-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 | >2.8mg/l(Pseudokirchneriella subcapitata)(OECD 201)

· **12.2 Persistence and degradability**

biodegradability | 73 % (28d) (OECD 301 F (Manometric Respirometry))

· **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.

· **12.6 Endocrinedisruptingproperties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:** Do not allow product 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:** Packaging may be reused or recycled after cleaning.

· **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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- **14.2 UN proper shipping name**  
· **ADR, ADN, IMDG, IATA** notapplicable
- **14.3 Transport hazard class(es)**  
· **ADR, ADN, IMDG, IATA**  
· **Class** notapplicable
- **14.4 Packing group**  
· **ADR, IMDG, IATA** notapplicable
- **14.5 Environmental hazards:** Notapplicable.
- **14.6 Special precautions for user** Notapplicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Notapplicable.
- **UN"Model Regulation":** notapplicable

### 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.

- **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.

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**Classification according to Regulation (EC) No 1272/2008**

Skincorrosion/irritation Serious eyedamage/eye irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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· **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)

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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