

Printing date 31.05.2023 Version number 10 (replaces version 9) Issue: 31.05.2023

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

· 1.1 Product identifier

· Trade name: AMYLOMER CAT 531

UFI: V200-U0CW-500X-QC2H

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 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 GB CLP regulation.

· Hazard pictograms



GHS07

- Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionarystatements

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.

If eye irritation persists: Get medical advice/attention.

P337+P313 If eye irritation persists: Get r

- · 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:**

Starch, 2-Hydroxy-3-(trimethylammonio) propyl ether, chloride (CAS 56780-58-6), aqueous solution

Dangerouscomponents:

CAS: 79-33-4 EINECS: 201-196-2

L-Lactic acid (2-hydroxy propionic acid)

Skin Corr. 1C, H314; Eye Dam. 1, H318, EUH071

2.5-5%

Index number: 607-743-00-5

Reg.nr.:01-2119474164-39

·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. If symptoms persist, 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.
- · 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

79-33-4 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.

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.

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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



· 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 (7732-18-5 water, distilled, conductivity or of

similar purity)

· Flash point: Not applicable

· pH at 20 °C 3.8

· Viscosity:

· dynamic at 20 °C: 150 - 500 mPa*s (Brookfield)

· Solubility

· Water: Fully miscible

Vapour pressure at 20 °C: 23 hPa (7732-18-5 water, distilled, conductivity or of

similar purity)

Density and/or relative density

Density at 20 °C: 1.135 g/cm³

9.2 Other information

· Appearance:

· Form: Fluid

Important information on protection of health and environment, and on safety.

• Auto-ignitiontemperature: 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 not applicable · Aerosols 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 Self-heating substances and mixtures not applicable

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Substances and mixtures, which emit flammable

gases in contact with water not applicable
Oxidising liquids not applicable
Oxidising solids not applicable
Organic peroxides not applicable

Corrosive to metals not applicableDesensitisedexplosives 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:

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

 Oral
 LD₅₀
 3,543 mg/kg (Rat (Female)) (EPA OPP 81-1)

 Dermal
 LD₅₀
 >2,000 mg/kg (rabbit) (EPA OPP 81-2)

56780-58-6 Starch, 2-hydroxy-3-trimethylammoniopropyl ether, chloride

Cytotoxicity (EN-ISO 10993-5) not cytotoxic

· Skin corrosion/irritation

56780-58-6 Starch, 2-hydroxy-3-trimethylammoniopropyl ether, chloride

Irritation of skin | OECD 439 | (human skin model)

not irritant

Serious eye damage/irritation

56780-58-6 Starch, 2-hydroxy-3-trimethylammoniopropyl ether, chloride

Irritation of eyes OECD 437 (Bovine Corneal Opacity and Permeability) not irritant

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity

56780-58-6 Starch, 2-hydroxy-3-trimethylammoniopropyl ether, chloride

Ames-Test (OECD 471) not mutagenic

- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.

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- 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.
- · 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:

EC₅₀/48 h | 53.29 mg/l (Daphnia magna) (OECD 202)

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

LC₅₀/96 h | 130 mg/l (Oncorhynchus mykiss)

EC₅₀/48 h | 130 mg/l (Daphnia magna) (OECD 202)

EC₅₀/72 h >2.8 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

· 12.2 Persistence and degradability

biodegradability 82 % (28d) (OECD 302 B (Zahn-Wellens/EMPA Test)) readilybiodegradable

- 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 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 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.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, ADN, IMDG, IATA not applicable

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA 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.
 14.6 Special precautions for user Not applicable.

· 14.7 Maritime transport in bulk according to IMO

instruments

Not applicable.

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.
- · 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.

Relevant phrases

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

EUH071 Corrosive to the respiratory tract.

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 (GB REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic





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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

* Data compared to the previous version altered.

EU