

Page 1/8

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

Printing date 11.03.2022 Version number 2.00 Revision: 11.03.2022

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

· Product identifier

· Trade name: S-Lactic acid, 90%

· Article number: 7028

- · Registration number The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH

Herderstr. 31 D-40721 Hilden

GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

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

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



- · Signal word Danger
- · Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

(Contd. on page 2)



Page 2/8

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

Printing date 11.03.2022 Version number 2.00 Revision: 11.03.2022

Trade name: S-Lactic acid, 90%

(Contd. of page 1)

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

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.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterisation: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 79-33-4 L-lactic acid 90.0%

EINECS: 201-196-2 Skin Corr. 1C, H314; Eye Dam. 1, H318

- · Non-hazardous components CAS: 7732-18-5 Water
- · Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Bring the person out of the contaminated area to fresh air.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · 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.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

(Contd. on page 3)



Page 3/8

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

Printing date 11.03.2022 Version number 2.00 Revision: 11.03.2022

Trade name: S-Lactic acid, 90%

(Contd. of page 2)

- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid contact with the substance.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

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

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: No further information
- · Storage class: TRHS 510: 8A Combustible corrosive substances
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 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.

(Contd. on page 4)



Page 4/8

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

Printing date 11.03.2022 Version number 2.00 Revision: 11.03.2022

Trade name: S-Lactic acid, 90%

(Contd. of page 3)

- Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- **Respiratory protection:** Suitable respiratory protective device recommended.
- Protection of hands: Protective gloves
- · Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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.

· 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.

· Eye protection: Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Colourless
Odour: Odourless
Odour threshold: Not determined.

· pH-value (10 g/l) at 20 °C: 1.8

· Change in condition

Melting point/freezing point:
Initial boiling point and boiling range: 120–130 °C

Flash point:
Flammability (solid, gas):
Decomposition temperature:

Undetermined.
120–130 °C

Not applicable.

Not determined.

· Auto-ignition temperature: Product is not selfigniting.

• **Explosive properties:** Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapour pressure: Not determined.

(Contd. on page 5)



Page 5/8

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

Printing date 11.03.2022 Version number 2.00 Revision: 11.03.2022

Trade name: S-Lactic acid, 90%

(Contd. of page 4)

Density at 20 °C:
 Relative density
 Vapour density
 Evaporation rate
 1.2 g/cm³
 Not determined.
 Not determined.

· Solubility in / Miscibility with

water: Fully miscible.

• Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

Water: 10.0 % VOC (EC) 0.00 %

· Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: Decomposition above 200 °C.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Strong oxidizing agents

strong bases

strong oxidizing agents

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

CAS: 79-33-4 L-lactic acid

Oral LD50 3,543 mg/kg (rat)
Dermal LD50 2,000 mg/kg (rabbit)
Inhalative LC50 7.94 mg/m3 (rat)

- Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

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

(Contd. on page 6)



Page 6/8

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

Printing date 11.03.2022 Version number 2.00 Revision: 11.03.2022

Trade name: S-Lactic acid, 90%

(Contd. of page 5)

- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · 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.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

CAS: 79-33-4 L-lactic acid

EC50 130-250 mg/L /48h (invertebrates)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.

^{*}14 Transport information

- · UN-Number
- · ADR, IMDG, IATA

UN3265

· UN proper shipping name

· IMDG CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(Contd. on page 7)



Page 7/8

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

Printing date 11.03.2022 Version number 2.00 Revision: 11.03.2022

Trade name: S-Lactic acid, 90%

(Contd. of page 6)

· IATA Corrosive liquid, acidic, organic, n.o.s.

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 8 Corrosive substances.

· Label

· Packing group

· ADR, IMDG, IATA

• Environmental hazards: Not applicable.

• Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80
 EMS Number: F-A,S-B
 Segregation groups SGG1 Acids

Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

· IMDG

· Limited quantities (LQ) 5L

*15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 8A Combustible corrosive substances

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

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- Relevant phrases

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

· Abbreviations and acronyms:

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

(Contd. on page 8)



Page 8/8

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

Version number 2.00 Revision: 11.03.2022 Printing date 11.03.2022

Trade name: S-Lactic acid, 90%

(Contd. of page 7)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1C: Skin corrosion/irritation – Category 1C Eye Dam. 1: Serious eye damage/eye irritation - Category 1

* Data compared to the previous version altered.

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