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# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.09.2024

Version number 2.00 (replaces version 1.00)

Revision: 27.09.2024

# 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.
- · UFI: 5300-P0GY-Y00C-G9K6
- · 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.



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· Precautionary statements			
P101	If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.		
P103	Read carefully and follow all instructions.		
P303+P361+P353	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P305+P351+P338	3 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			
<ul> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> </ul>			

- **vPvB:** Not applicable.
- **Determination of andor**
- · Determination of endocrine-disrupting properties Not applicable.

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

#### · Mixtures

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

CAS: 79-33-4 L-lactic acid EINECS: 201-196-2 Skin Corr. 1C, H314; Eye Dam. 1, H318, EUH071 • Additional information: For the wording of the listed hazard phrases refer to section 16.

## 4 First aid measures

#### <sup>•</sup> 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.
- 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.

90.0%



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(Contd. of page 2) · Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced. 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 section 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 · 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

- 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.

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

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- · Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.
- · Hand protection 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/face protection Tightly sealed goggles

## 9 Physical and chemical properties

<ul> <li>Information on basic physical and chemical propagation</li> </ul>	perties		
General Information			
· Physical state	Fluid		
· Colour:	Colourless		
· Odour:	Odourless		
· Odour threshold:	Not determined.		
<ul> <li>Melting point/freezing point:</li> </ul>	Undetermined.		
<ul> <li>Boiling point or initial boiling point and boiling</li> </ul>			
range	120–130 °C		
· Flammability	Not applicable.		
• Lower and upper explosion limit			
· Lower:	Not determined.		
· Upper:	Not determined.		
· Flash point:	Not applicable.		
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.		
<sup>.</sup> pH (10 g/l) at 20 °C	1.8		
· Viscosity:			
<ul> <li>Kinematic viscosity</li> </ul>	Not determined.		
Dynamic:	Not determined.		
· Solubility			
water:	Fully miscible.		
Partition coefficient n-octanol/water (log value)	Not determined.		
· Vapour pressure:	Not determined.		



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Density and/or relative density	
· Density at 20 °C:	1.2 g/cm <sup>3</sup>
Relative density	Not determined.
· Vapour density	Not determined.
Other information	
· Appearance:	
· Form:	Fluid
<sup>1</sup> Important information on protection of health	
and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	r roudot doos not prosent an explosion nazara.
· Water:	10.0 %
· VOC (EC)	0.00 %
Change in condition	
· Evaporation rate	Not determined.
•	
<ul> <li>Information with regard to physical hazard classes</li> </ul>	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammab	le
gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void
Corrosive to metals	Void
<ul> <li>Desensitised explosives</li> </ul>	Void
•	

## 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



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strong oxidizing agents

· Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- 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:

## 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)

- · 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.
- · 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.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

## **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.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

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· Other adverse effects

#### · 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.

## 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 or ID number	
ADR, IMDG, IATA	UN3265
<ul> <li>UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> <li>IATA</li> <li>Transport hazard class(es)</li> </ul>	3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. Corrosive liquid, acidic, organic, n.o.s.
· ADR, IMDG, IATA	
Class	8 Corrosive substances.
· Label · Packing group	8
· ADR, IMDG, IATA	Ш
· Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances.
<ul> <li>Hazard identification number (Kemler code):</li> </ul>	
· EMS Number:	F-A,S-B
Segregation groups	SGG1 Acids
<ul> <li>Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable.
<ul> <li>Transport/Additional information:</li> </ul>	
ADR	
Limited quantities (LQ)	5L
Transport category	3
<ul> <li>Tunnel restriction code</li> </ul>	E (Contd. on page 8)
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IF

- ·IMDG
- · Limited quantities (LQ)
- · UN "Model Regulation":

5L UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 8, III

## **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
- 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.

· 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.

EUH071 Corrosive to the respiratory tract.

- Version number of previous version: 1.00
- 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
- 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