


<p>Page 1 of 4</p> <p>Print Date 23.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>(S)-Milchsäure (90%)</p>	 <p>Revision Date 23.11.2018</p>
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1 Identification of the substance/mixture and of the company/undertaking

- **Informations to product No. 7028**
- **Product name:**

(S)-Milchsäure (90%)
Acidum (S)-lacticum
Lactic acid

- **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

- **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

- **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

- **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

- **GHS-Labeling Elements:**



- **Signal word:** Danger

- **H-Phrases:**

H315 Causes skin irritation
H318 Causes serious eye damage

- **P-Phrases:**


P305 IF IN EYES:
P351 Rinse continuously with water for several minutes

Skin Irrit. 2
Eye Dam. 1

3 Composition / information on ingredients

CAS-No. Substance name

79-33-4 Lactic acid (90%)

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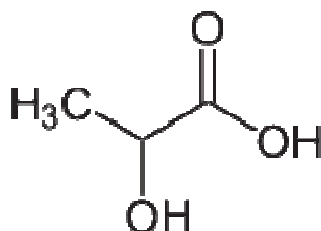
- **EINECS-No.:** 201-196-2
- **REACH Reg. No.:** 01-2119474164-39-0000
- **INCI-Name:** Lactic Acid

CAS-No. Substance name

7732-18-5 Water (10%)

- **EINECS-No.:** 231-791-2
- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.
- **INCI-Name:** Aqua

• **Chemical characterization:**



4 First aid measures


- **After inhalation:** (Aerosol) Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **After skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **After eye contact:** Rinse out with plenty of water with the eyelid wide open. Call in ophthalmologist, even if no immediate symptoms occur.
- **After swallowing:** Drink plenty of water. Avoid vomiting. Give activated coal.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures:

- **Personal protective measures:** Avoid contact with substance.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust.

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7 Handling and storage

- **Handling:** No special requirements.
- **Storage:**
- **Requirements for storage areas and containers:**
Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Required only if vapours / aerosols are generated.
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties


- **Form:** liquid
- **Colour:** colourless
- **Odour:** odourless
- **Melting point / melting range:** Not determined.
- **Boiling point / boiling range:** 120-130 °C
- **Flash point:** not determined
- **Density:** (20 °C) 1,2 g/cm³
- **Solubility in / Miscibility with**
- **Water:** Completely miscible
- **pH-range:** (10 g/l, 20 °C) 1,8

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid strong heating. Decomposition at ca. 200 °C
- **Materials to avoid:** Strong oxidants, strong acids and bases.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- 79-33-4 Lactic acid
- LD50 dermal, rabbit: > 2000 mg/kg
- LC50 inhal, rat: 7,94 mg/l 4 h
- LD50 oral mouse: 4875 mg/kg
- LD50 oral guinea pig: 1810 mg/kg
- LD50 oral, rat: 3730 mg/kg
- **Primary irritant effect:**
- **on skin:** Strong irritations.
- **on eyes:** Strong irritations with danger of serious eye damage.
- **after swallowing:** Burnings in esophagus and stomach.

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12 Ecological information

- **Aquatic toxicity:**
EC50 Alges: 3500 mg/l
EC50 Daphnia: 240 mg/l 48 h
LC50 Fish: 320 mg/l 48 h
- **log p(O/W):** -0,62
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
Not classified as dangerous in the meaning of transport regulations.

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**
The product is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS05
- **Signal word:** Danger
- **H-Phrases:**
H315 Causes skin irritation
H318 Causes serious eye damage
- **P-Phrases:**
P305 IF IN EYES:
P351 Rinse continuously with water for several minutes
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 10
- **VbF class:** -

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.