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

· **Informations to product No. 7030**

· **Product name:**

**Milchsäure-L (+), 20%, rechtsdrehend**  
**Acidum L (+)-lacticum**

· **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

· **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.

## 3 Composition / information on ingredients

· **Chemical characterization:**

**CAS-No. Substance name**

79-33-4 Lactic acid (20%) GHS05, H314

· **EINECS-No:** 201-196-2

· **REACH Reg. No.:** 01-2119474164-39-0000

· **INCI-Name:** Lactic Acid

**CAS-No. Substance name**

7732-18-5 Wasser (80%)

· **EINECS-No.:** 231-791-2


· **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.

· **INCI-Name:** Aqua

## 4 First aid measures

· **after inhalation:** not relevant

· **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water

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and soap.

- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If irritation continues, call in ophthalmologist.
- **after swallowing:** Drink plenty of water. Avoid vomiting. 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, but not flammable. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **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. Disposal according to Chapter 13 of this MSDS. Clean up with water.

## 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:** Not required
- **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:** < 0 °C
- **Boiling point / boiling range:** 105 °C
- **Flash point:** not determined
- **Density:** (20 °C) 1,05 g/cm³
- **Solubility in / Miscibility with**
- **Water:** completely miscible
- **pH-range:** (50 g/l, 20 °C) 2,8

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Strong heating.
- **Hazardous decomposition products:** none.

## 11 Toxicological information

- **Acute toxicity:**  
**LD/LD50-data relevant for hazard classification:**  
79-33-4 Lactic acid  
Oral: LD50: 3543 mg/kg (rat)
- **Primary irritant effect:**
- **on skin:** Slight irritations.
- **on eyes:** Irritations.
- **after swallowing:** Irritations in esophagus and stomach.

## 12 Ecological information

- **Information about elimination (persistence and degradability):**  
BSB5: 0,64 g/g; BSB 22% von ThSB/5d.
- **Log pOW:** -0,62.
- **Aquatic toxicity:**  
Toxic for water organisms. Harmful effect due to pH-shift.  
Fish toxicity: *S.gairdnerii* LC50: 100 mg/l/24h.
- **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 does not need to be labelled according to GHS-regulations.
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12

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- **Storage class TRGS 510:** 12
- **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.