

Trade name: Acid lacticum

Substance number: 203500

Version: 7 / CH

Date revised: 05.08.2025

Replaces Version: 6 / CH

Print date: 05.08.25

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

1.1. Product identifier

Acid lacticum

Item No. 20350000

Substance / product identification

UFI 5RAW-V0V1-M00N-0DTK

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Manufacture of pharmaceutical products

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H314

Causes severe skin burns and eye damage.

EUH071

Corrosive to the respiratory tract.

Precautionary statements

P264.1

Wash hands thoroughly after handling.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 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 or doctor.
 P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains l-(+)-lactic acid

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****l-(+)-lactic acid**

| | | |
|--|-----------------------------|------|
| CAS No. | 79-33-4 | |
| EINECS no. | 201-196-2 | |
| Registration no. | 01-2119474164-39-0000/-0013 | |
| Concentration | >= 50 | % |
| Classification (Regulation (EC) No. 1272/2008) | | |
| | Skin Corr. 1C | H314 |
| | Eye Dam. 1 | H318 |

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Keep warm, calm and covered up. Wash contaminated clothing before re-use. In case of accident or if you feel unwell, seek medical advice immediately.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Remove contaminated, soaked clothing immediately and dispose of safely. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Drink water in small gulps. Summon a doctor immediately.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Symptomatic treatment (decontamination, vital functions), no specific antidote known. If necessary, give oxygen. Symptoms appear mostly after several hours. Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Foam

Non suitable extinguishing media

Full water jet

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Avoid contact with eyes and skin. Avoid breathing vapours. Wear protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains, caverns and basements.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). For small amounts: take up with appropriate instrument and dispose. For tall amounts: Take up mechanically and collect in suitable container for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Provide good ventilation of working area (local exhaust ventilation if necessary). Wear protective equipment. Smoking, eating and drinking should be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Keep under lock and key.

Hints on storage assembly

Do not store with oxidizing agents.

Storage classes

| | | |
|-------------------------------------|----|--|
| Storage class according to TRGS 510 | 8A | Combustible corrosive hazardous substances |
| Storage category (Switzerland) | 8 | Caustic and corrosive substances |

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

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Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes.

Respiratory protection

If vapours occur, use filter type A (= against vapours of organic compounds) according to EN 14387.

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

| | |
|--|----------------------|
| Appropriate Material | Butyl rubber - Butyl |
| Material thickness | 0.5 mm |
| Breakthrough time | > 480 min |
| Hand protection must comply with EN 374. | |

| | |
|--|-----------|
| Appropriate Material | PVC |
| Material thickness | 0.5 mm |
| Breakthrough time | > 480 min |
| Hand protection must comply with EN 374. | |

| | |
|--|----------------------|
| Appropriate Material | nitrile rubber - NBR |
| Material thickness | 0.35 mm |
| Breakthrough time | > 480 min |
| Hand protection must comply with EN 374. | |

| | |
|----------------------|-----|
| Appropriate Material | PVC |
|----------------------|-----|

Eye protection

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry. Boots; apron

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------------|-------------------------|
| Physical state | liquid, clear |
| Colour | colourless to yellowish |
| Odour | characteristic |

Melting point

| | |
|---------|-------------------|
| Remarks | No data available |
|---------|-------------------|

Boiling point or initial boiling point and boiling range

| | | | | |
|----------|------|-----|-----|----|
| Value | 120 | to | 130 | °C |
| Pressure | 1013 | hPa | | |

Flash point

| | |
|---------|----------------|
| Value | °C |
| Remarks | Not applicable |

Ignition temperature

| | | |
|-------|-------|----|
| Value | > 400 | °C |
|-------|-------|----|

Decomposition temperature

| | | |
|-------|-------|----|
| Value | > 200 | °C |
|-------|-------|----|

pH value

| | | |
|-------------|-------|----|
| Value | < 1.2 | |
| Temperature | 25 | °C |

Viscosity

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| | | | | |
|-------------|----|----|----|-------|
| Value | 5 | to | 60 | mPa.s |
| Temperature | 25 | °C | | |

Vapour pressure

Remarks Not applicable

Density and/or relative density

| | | | | |
|-------------|-----|----|-----|-------------------|
| Value | 1.1 | to | 1.3 | g/cm ³ |
| Temperature | 20 | °C | | |

9.2. Other information**Solubility in water**

Remarks Completely miscible

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Protect from heat and direct sunlight. Strong UV radiation

10.5. Incompatible materials

Oxidising agents, Bases, Acids, Metals

10.6. Hazardous decomposition products

Toxic gases/vapours, Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****I-(+)-lactic acid**

| | | |
|---------|-----------------|-------|
| Species | rat (female) | |
| LD50 | 3543 | mg/kg |
| Method | US EPA OPP 81-1 | |

I-(+)-lactic acid

| | | |
|---------|--------------------|-------|
| Species | Rats (male/female) | |
| LD50 | 4239.5 | mg/kg |
| Method | OECD 401 | |

Acute dermal toxicity (Components)**I-(+)-lactic acid**

| | | |
|---------|--------|-------|
| Species | rabbit | |
| LD50 | > 2000 | mg/kg |
| Method | EPA | |

Acute inhalative toxicity (Components)**I-(+)-lactic acid**

| | | |
|----------------------|--------|------|
| Species | rat | |
| LC50 | > 7.94 | mg/l |
| Duration of exposure | 4 h | |

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| | |
|---------------------|-----------|
| Administration/Form | Dust/Mist |
| Method | OECD 403 |
| Remarks | Corrosive |

Skin corrosion/irritation (Components)**I-(+)-lactic acid**

| | |
|---------|---------------------|
| Species | rabbit |
| Method | OECD 404 |
| Remarks | Irritating to skin. |

I-(+)-lactic acid

| | | |
|----------------------|-----------|---|
| Duration of exposure | 1 | h |
| evaluation | corrosive | |

Serious eye damage/irritation (Components)**I-(+)-lactic acid**

| | |
|----------------------|---|
| Species | dog |
| Duration of exposure | 10 s |
| evaluation | irritant - risk of serious damage to eyes |
| Method | OECD 438 |

Sensitization (Components)**I-(+)-lactic acid**

| | |
|------------|-----------------|
| evaluation | non-sensitizing |
|------------|-----------------|

Mutagenicity (Components)**I-(+)-lactic acid**

| | |
|------------|--|
| evaluation | No experimental indications on genotoxicity in vivo found. |
|------------|--|

Reproduction toxicity (Components)**I-(+)-lactic acid**

| | |
|------------|---------------------|
| evaluation | No negative effects |
|------------|---------------------|

Carcinogenicity (Components)**I-(+)-lactic acid**

| | |
|------------|---------------------|
| evaluation | No negative effects |
|------------|---------------------|

Specific Target Organ Toxicity (STOT) (Components)**I-(+)-lactic acid**

| | |
|---------|----------------|
| Remarks | Not applicable |
|---------|----------------|

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****I-(+)-lactic acid**

| | |
|----------------------|--|
| Species | rainbow trout (<i>Oncorhynchus mykiss</i>) |
| LC50 | 130 mg/l |
| Duration of exposure | 96 h |
| Method | EPA-660/3-75-009 |

Daphnia toxicity (Components)**I-(+)-lactic acid**

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| | | |
|----------------------|---------------|------|
| Species | Daphnia magna | |
| EC50 | 130 | mg/l |
| Duration of exposure | 48 | h |
| Method | OECD 202 | |

Algae toxicity (Components)**I-(+)-lactic acid**

| | | |
|----------------------|---------------------------------|-----|
| Species | Pseudokirchneriella subcapitata | |
| EC50 | > 2.8 | g/l |
| Duration of exposure | 72 | h |

I-(+)-lactic acid

| | | |
|----------------------|--------------------------|------|
| Species | Raphidocelis subcapitata | |
| EC50 | > 3500 | mg/l |
| Duration of exposure | 72 | h |
| Method | OECD 201 | |

Bacteria toxicity (Components)**I-(+)-lactic acid**

| | | |
|----------------------|-------|------|
| LC50 | > 100 | mg/l |
| Duration of exposure | 3 | h |

I-(+)-lactic acid

| | | |
|----------------------|------------------|------|
| Species | activated sludge | |
| EC50 | > 88.2 | mg/l |
| Duration of exposure | 3 | h |
| Method | OECD 209 | |

12.2. Persistence and degradability**Biodegradability (Components)****I-(+)-lactic acid**

| | |
|------------|-----------------------|
| evaluation | Readily biodegradable |
|------------|-----------------------|

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****I-(+)-lactic acid**

| | |
|---------|----------|
| log Pow | -0.54 |
| Method | OECD 107 |

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

In general not water hazardous.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|--|---|
| Tunnel restriction code | E | | |
| 14.1. UN number | 3265 | 3265 | 3265 |
| 14.2. UN proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (l-(-)-lactic acid) | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (l-(-)-lactic acid) | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (l-(-)-lactic acid) |
| 14.3. Transport hazard class(es) | 8 | 8 | 8 |
| Label |  |  |  |
| 14.4. Packing group | III | III | III |
| Limited Quantity | 5 l | | |
| Transport category | 3 | | |

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
CLP categories listed in Chapter 3
 Eye Dam. 1 Serious eye damage, Category 1
 Skin Corr. 1C Skin corrosion, Category 1C
Supplemental information

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Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.