

Trade name: Acid lacticum

Substance number: 203500

Version: 5 / CH

Date revised: 20.12.2022

Replaces Version: 4 / CH

Print date: 20.12.22

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

### **1.1. Product identifier**

Acid lacticum

Item No. 20350000

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

#### **Use of the substance/preparation**

food additive, Chemical

### **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.

##### **Precautionary statements \*\*\***

P264.1 Wash hands thoroughly after handling.

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.

Trade name: Acid lacticum

Substance number: 203500

Version: 5 / CH

Date revised: 20.12.2022

Replaces Version: 4 / CH

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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  $\geq$  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.). Take medical treatment.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Consult a physician if necessary.

**SECTION 5: Firefighting measures****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**

Trade name: Acid lacticum

Substance number: 203500

Version: 5 / CH

Date revised: 20.12.2022

Replaces Version: 4 / CH

Print date: 20.12.22

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****Recommended storage temperature**

Value < 200 °C

**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

**Hints on storage assembly**

Do not store with oxidizing agents.

**Storage classes**

Storage class according to TRGS 510	8B	Non-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**

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

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Gas filterA.

**Hand protection**

Protective gloves	
Appropriate Material	Butyl rubber - Butyl

Trade name: Acid lacticum

Substance number: 203500

Version: 5 / CH

Date revised: 20.12.2022

Replaces Version: 4 / CH

Print date: 20.12.22

Material thickness		0.5	mm
Breakthrough time	>	8	h
Not suitable			
Appropriate Material		Natural Latex	
Appropriate Material		nitrile rubber - NBR	
Appropriate Material		Fluoro carbon rubber - FKM	
Appropriate Material		PVC	

**Eye protection**

Safety glasses with side protection shield

**Body protection**

Protective clothing

**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**

<b>Physical state</b>		liquid, clear		
<b>Colour</b>		colourless to yellowish		
<b>Odour</b>		characteristic		
<b>Melting point</b>				
Remarks		No data available		
<b>Boiling point or initial boiling point and boiling range</b>				
Value		120	to	130 °C
Pressure		1013	hPa	
<b>Flash point</b>				
Value				°C
Remarks		Not applicable		
<b>Ignition temperature</b>				
Value	>	400		°C
<b>Decomposition temperature</b>				
Value	>	200		°C
<b>pH value</b>				
Value	<	1.2		
Temperature		25		°C
<b>Viscosity</b>				
Value		5	to	60 mPa.s
Temperature		25	°C	
<b>Partition coefficient n-octanol/water (log value)</b>				
log Pow		-0.62		
<b>Vapour pressure</b>				
Remarks		Not applicable		
<b>Density and/or relative density</b>				
Value		1.2		g/cm <sup>3</sup>
Temperature		20		°C

**9.2. Other information****Solubility in water**

Remarks Completely miscible

Trade name: Acid lacticum

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## **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**

No decomposition if stored and applied as directed.

### **10.5. Incompatible materials**

Oxidising agents

### **10.6. Hazardous decomposition products**

None known

## **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

#### **Acute dermal toxicity (Components)**

##### **I-(+)-lactic acid**

Species	rabbit	
LD50	> 2000	mg/kg

#### **Acute inhalative toxicity (Components)**

##### **I-(+)-lactic acid**

Species	rat	
LC50	> 7.94	mg/l

#### **Skin corrosion/irritation (Components)**

##### **I-(+)-lactic acid**

Species	rabbit
Method	OECD 404
Remarks	Irritating to skin.

#### **Serious eye damage/irritation (Components)**

##### **I-(+)-lactic acid**

evaluation	irritant - risk of serious damage to eyes
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#### **Sensitization (Components)**

##### **I-(+)-lactic acid**

evaluation	non-sensitizing
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#### **Mutagenicity (Components)**

##### **I-(+)-lactic acid**

evaluation	No experimental indications on genotoxicity in vivo found.
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#### **Reproduction toxicity (Components)**

Trade name: Acid lacticum

Substance number: 203500

Version: 5 / CH

Date revised: 20.12.2022

Replaces Version: 4 / CH

Print date: 20.12.22

**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	

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

Species	Daphnia magna		
EC50	130		mg/l
Duration of exposure	48	h	

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

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

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

LC50	>	100	mg/l
Duration of exposure	3	h	

**12.2. Persistence and degradability****Biodegradability**

evaluation Readily biodegradable

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

evaluation Readily biodegradable

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

log Pow -0.62

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

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Replaces Version: 4 / CH

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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




#### 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      Not water hazardous

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(Germany)

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**

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.