

Safety Data sheet

According to Directive 1907/2006

0130 L(+)-LACTIC ACID

Creation Date: 01/12/2010 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 0130 Product name: L(+)-LACTIC ACID Use of the substance: Analysis and chemical-pharmaceutical production.

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

36/38 Irritating to eyes and skin.

S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Labelling in accordance with directive 1272/2008



H-phrases

319 Causes serious eye irritation.

315 Causes skin irritation.

P-phrases

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

305+351 If in eyes: Rinse cautiously with water for several minutes.

338 Remove contact lenses, if present and easy to do. Continue rinsing.

Signal word : WARNING
IRRITANT
R-phrases:
Irritating to eyes and skin.

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 79-33-4
Molecular Weight: 90,08
Chemical formula: $\text{CH}_3\text{CHOHCOOH}$
EC-No.: 200-018-0
R-phrases 36/38

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air
After skin contact:
Rinse with abundant water (or have a shower)
Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)
Call the ophthalmologist

After swallowing:

Drink lots of water
Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Water
Dust
Foam
Carbon dioxide

Special risks:

Fireproof

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.
In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols
Avoid contact with the substance
Ventilation in closed spaces

Procedures for cleaning/absorption:

To gather with absorbents
To come to the elimination of the remainders
Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed
Dry place.

8. Exposure controls/personal protection

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Needed

Protection gloves:

Nitrile rubber

Nitrile rubber

Eye protection:

Needed

Skin and body protection:

Suitable protective clothing

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Odourless

pH value: 2,8 (10 g/l H₂O)

Dynamic viscosity: 20-40 mPa*s

Melting point: 17°C

Boiling point: 122°C

Vapour pressure: 0,1 hPa

Density (g/cm³): 1,200

Solubility: soluble (water)

log P(ow): -0,62

10. Stability and reactivity

Substances to be avoided:

Oxidizing agents.

Strong bases.

Hazardous decomposition products:

Toxic gases.

Further information:

Strong heating (decomposition).

11.Toxicological information

Acute toxicity:

LD50 (dermal, rabbit): > 2000 mg/kg; LD50 (oral, rat): 3730 mg/kg

After eye contact:

Irritation

Risk of serious damage to eyes

After skin contact:

Irritations

After inhalation:

Irritation of: respiratory tract

After swallowing:

Irritations of mucous membranes in the mouth

Irritations of pharynx

Irritations of oesophagus

Irritations of gastrointestinal tract

Damage of kidneys

Further toxicological information:

Other dangerous characteristics are not discarded

Take the usual precautions for handling chemical products

12.Ecological information

Fishes: Brachydanio rerio LC50: 320 mg/l /96 h

Daphnia: Daphnia magna EC50: 240 mg/l /48 h

Algae: Selenastrum capricornutum IC50: 3500 mg/l /72 h

Log P(ow): -0,62

BOD5 0,45 g/g

COD 0,9 mg/g

TOD 0,9 mg/g

Biodegradability: High

Bioaccumulation: No bioaccumulation is to be expected (log Pow < 1).

Other harmful effects:

Harmful effect due to pH shift

Do not allow to enter waters, waste water, or soil

13.Disposal considerations

Product:

Dispose as regulated in the communitary countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.

For contaminated packaging the same measures must be adopted as for the contaminated product.

Not contaminated packaging must be disposed of as domestic residues or recycled material.

European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14.Transport information

Overland transport ADR/RID

Sea transport IMDG

Air transport ICAO-IATA-DGR

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3

36/38 Irritating to eyes and skin.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.