

Safety Data Sheet
According to Regulation (EU) 830/2015

1034 L(+)-Lactic Acid

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

1.1 Product identifier

Name:

L(+)-Lactic Acid

Synonym:

(S)-2-Hydroxypropanoic Acid

REACH Registration Number: 01-2119474164-39-XXXX

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

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e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Eye Irrit. 2

Skin Irrit. 2

2.2 Label elements:

Hazard Pictograms



Signal word

Hazard statements

H319 Causes serious eye irritation.

H315 Causes skin irritation.

Precautionary statements

P264 Wash...thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

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

P321 Specific treatment (see on this label).

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Name: L(+)-Lactic Acid

Formula: C₃H₆O₃ M.= 90,08 CAS [79-33-4]

EC number (EINECS): 201-196-2

REACH Registration Number: 01-2119474164-39-XXXX

3.2 Mixtures

4. First aid measures

4.1 Description of first aid measures

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Swallowing:

Drink large amounts of water. Induce vomiting. Call for medical help.

Inhaling:

Take the person out into the fresh air.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. In the event of irritation, seek medical assistance.

5. Firefighting measures**5.1 Extinguishing media:**

Water. Alcohol resistant foam. Dry powder. Carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture:

Combustible.

5.3 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the fumes.

6.2 Environmental precautions:

Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

6.4 Reference to other sections

Not applicable

7. Handling and storage**7.1 Precautions for safe handling:**

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. Dry atmosphere. Away from light.

Recommended storage temperature: Room temperature.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection**8.1 Control parameters:**

Data not available.

8.2 Exposure controls

No special indications.

Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection.

Hand protection:
Use suitable gloves

Eye/face protection:
Use safety glasses.

Individual hygiene measures:
Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: Colourless
Granulometry: N/A
Odour: Odourless.
pH: ~2,8
Melting point/freezing point: 18 °C
Initial boiling point and boiling range: 122 °C
Flash point: 110 °C
Flammability (solid, gas):
N/A
Upper/lower flammability or explosive limits:
N/A
Vapour pressure: N/A
Vapour density: N/A
Relative density: (20/4) 1,209 g/ml
Solubility: Miscible with water
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: N/A
Kinematic viscosity: N/A
Dynamic viscosity:
N/A

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

No specific data.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

High temperatures.

10.5 Incompatible materials:

No specific data.

10.6 Hazardous decomposition products:

Toxic gases.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 oral rat : 3.543 mg/kg

LD50 ipr mus : 3.194 mg/kg

Dangerous effects for health:

Upon contact with the skin: irritations burns Through contact with the eyes:

irritations burns If swallowed: Burns in the oesophagus and stomach. If swallowed

in large quantities: May cause: kidney problems

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Fish (Salmo gairdneri) 100 mg/l

Classification:

Highly toxic

- Receptor medium:

Risk for the land environment

Low

- Observations:

The ecotoxicity is due to the pH deviation.

12.2 Persistence and Degradability :

- Test:

BOD5 = DOBD22 D % ThOD 5d. 0,64 g/g
(anhydrous product)

- Biotic degradation classification:

BOD5/COD

Biodegradability

High, over 1/3

- Abiotic degradation depending on pH:

- Observations:

Easily biodegradable product.

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

Non-bioaccumulable product.

12.4 Mobility in soil :

Repartition: log P(oct)= -0,62

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

13. Disposal considerations

13.1 Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

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

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14. Transport information

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

Not applicable

16. Other information

Other precautionary statements

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

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In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.