

Product: **LACTIC ACID (EUR. PH.)**

Product code: 0065

Page 1 of 7

Emission date: 22/07/2026

Version: 0065_MSDS_ENG_0126

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product name: **LACTIC ACID (EUR. PH.)**
Product code: 0065
Nº CAS: 79-33-4
Nº EC: 201-196-2

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

Relevant identified uses: Pharmaceutical or cosmetic excipient

1.3. Details of the supplier of the safety data sheet

Company: **METAPHARMACEUTICAL INDUSTRIAL SLU**
JOSEP PLA 163 2º 5ª
08020 BARCELONA
SPAIN
Phone number: (0034) 933 089 976
Contact e-mail: info@metaph.es
Web page: www.metaph.com

1.4. Emergency telephone number

National Institute of Toxicology of Madrid: (0034) 915 620 420

2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP).

Skin Corr. 1C, H314

Eye Dam. 1, H318

2.2. Label Elements

Signal word (CLP): DANGER

Hazard statements:

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

Precautionary statements:

P264: Wash thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

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

P310: Immediately call a POISON CENTER/doctor/...

P501: Dispose of contents/container to...

Product: **LACTIC ACID (EUR. PH.)**

Product code: 0065

Page 2 of 7

Emission date: 22/07/2026

Version: 0065_MSDS_ENG_0126

**2.3. Other hazards**

No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Product name:	LACTIC ACID
Synonyms:	L-(+)-ÁCIDO LÁCTICO, L-(+)-LACTIC ACID
IUPAC name:	(2S)-2- Hydroxypropanoic acid
Nº CAS:	79-33-4
Nº EC:	201-196-2
Molecular formula:	C ₃ H ₆ O ₃

3.2. Mixtures

Not applicable.

4. FIRST AID MEASURES**4.1. Description of first aid measures**

General advises:	Consult a doctor. Show the safety data sheet to the doctor on duty.
Inhalation:	Take outdoors. If breathing is irregular, call a doctor immediately. Only apply artificial respiration if breathing stops or under medical supervision.
Skin contact:	Wash immediately with plenty of soap and water for at least 15 minutes. Take off all contaminated clothing immediately. Get medical attention if irritation develops and persists.
Eye contact:	Remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	If conscious, give victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the substances, see Section 11.

4.3. Indication of any immediate medical attention and special treatment needed

In case of doubt, or if symptoms of discomfort persist, seek medical attention.

5. FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing methods:	Foam, dry chemical powder, carbon dioxide, sand, water spray/mist
Unsuitable extinguishing methods:	Direct water jet.
Neighboring fires (containers exposed to fire):	Water spray or water mist.

5.2. Special hazards arising from the substance or mixture

Avoid inhalation of combustion products (carbon oxides, toxic pyrolysis products, etc.).

The product is combustible and, when dust is dispersed in the air at sufficient concentrations in the presence of an ignition source, explosive dust-air mixtures may form. Fire may intensify or spread due to the combustible solid, particularly if containers are exposed to high temperatures or ignition sources.

Product: **LACTIC ACID (EUR. PH.)**

Product code: 0065

Page 3 of 7

Emission date: 22/07/2026

Version: 0065_MSDS_ENG_0126

**5.3. Advice for firefighters**

General information:

Cool containers with water to prevent product decomposition and development of potential health hazards. Always use full fire protection. Collect the water that should not enter the sewer. Eliminate the contaminated water used to extinguish and the remains of the second current regulations.

Equipment:

Helmet with visor, flame retardant clothing (jacket and trousers with braces around the arms, legs and waist, EN 469), gloves (fire and dielectric proof, EN 659), a mask with a full-face mask. operator's face or car (protective car) in the case of large amounts of smoke, a self-contained breathing apparatus (EN 137).

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

For exposure controls and personal protection measures, see Section 8.

Provide cleanup personnel with appropriate protective equipment. Ventilate the area. Evacuate unnecessary personnel.

6.2. Environmental precautions

Prevent release into the environment. Avoid entry into sewers and waterways. If the product reaches drains or public watercourses, notify the relevant authorities.

6.3. Methods and material for containment and cleaning up

Store away from other materials. If spilled on the ground, sweep up or collect using a shovel or similar tool and place in suitable containers. Minimize dust generation.

6.4. Reference to other sections

For exposure controls and personal protective measures, see Section 8.

For disposal recommendations, see Section 13.

7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid releasing the product into the environment. Smoking, eating, and drinking must be prohibited in the application area. Comply with applicable occupational health and safety regulations. Keep the product only in containers made of the same material as the original packaging.

7.2. Conditions for safe storage, including any incompatibilities

The product does not require special storage conditions.

Keep containers tightly closed in a cool, dry place away from flames and sparks.

7.3. Specific end use(s)

No additional information available beyond that provided in Section 1.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Exposure controls/personal protection**

No data available.

8.2. Exposure controls

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation in the workplace by means of effective local suction. When choosing personal protective equipment, ask your chemical suppliers if necessary. Personal protective equipment must bear the CE marking that certifies compliance with the applicable regulations. Arrange an emergency shower with a visco-elastic tray.



Product: **LACTIC ACID (EUR. PH.)**

Product code: 0065

Page 4 of 7

Emission date: 22/07/2026

Version: 0065_MSDS_ENG_0126



Eye and face protection:	Protection masks and safety glasses according to EN 165, EN 166, EN 167, EN 168.
Hands protection:	Handle with gloves. The selected protective gloves must comply with the specifications of the EU Directive 89/686/EEC and the standards EN 374-1, EN 374-2, EN 374-3, EN 420 derived from it.
Respiratory protection:	Where risk assessment shows that air purifying respirators are appropriate, use type N95 (USA) or type P1 (EN 149) dust mask. Use respirators and components tested and approved under the appropriate government standards such as NIOSH (USA) or CEN (EU).
Skin protection:	Choose body protection based on the amount and concentration of the dangerous substance in the workplace.
Hygiene measures:	Handle with adequate industrial hygiene precautions, and respect safety practices. Wash your hands before breaks and after finishing the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Aspect:	Liquid
Color:	Colorless to slightly yellow
Molecular weight:	90.01 g/mol
pH (1%):	4.5 – 6.0
Boiling point (°C):	125
Flash point (°C):	112
Density (25 °C):	1.215 g/mL
Viscosity (25 °C):	60 mPa·s
Water solubility (20 °C):	Soluble
n-Octanol/Water Partition Coefficient (20 °C):	LogPow -0.62

9.2. Other information

No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No special conditions. Stable under the recommended handling and storage conditions (see Section 7).

10.2. Chemical stability

Stable under the recommended handling and storage conditions (see Section 7).

10.3. Possibility of hazardous reactions

Hazardous reactions are not expected under normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However, observe the usual precautions applicable to chemical products.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

When heated or in the event of fire, the product may release gases and vapors that are hazardous to health.

Product: **LACTIC ACID (EUR. PH.)**

Product code: 0065

Page 5 of 7

Emission date: 22/07/2026

Version: 0065_MSDS_ENG_0126



11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (LD50, rat):	4,875 mg/kg
Acute inhalation toxicity (LD50, rat)	7.94 mg/L/4 h
Acute skin toxicity (LD50, rabbit):	> 2,000 mg/kg
Skin corrosion/irritation:	May cause skin irritation.
Serious eye damage/eye irritation:	May cause ocular irritation.
Skin or respiratory sensitization:	May cause respiratory irritation.
Germ cell mutagenicity:	No additional information available (Lack of data)
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% has been identified as a known, probable, or possible human carcinogen.
Reproductive toxicity:	The product is classified as toxic for reproduction.
STOT – single exposure:	No additional information available (Lack of data)
STOT – repeated exposure:	No additional information available (Lack of data)
Aspiration Hazard:	No additional information available (Lack of data)

Potential Health Effects

Inhalation:	Harmful if inhaled. May cause moderate irritation of the upper respiratory tract.
Ingestion:	Harmful if swallowed. May cause adverse health effects including stomach pain, heartburn, nausea, and vomiting.
Skin:	Harmful if absorbed through the skin. May cause irritation, erythema, edema, dryness, and skin cracking.
Eyes:	May cause serious eye damage, including corneal opacity, iris injury, and irreversible eye discoloration.
Signs and Symptoms of Exposure:	No additional information available (Lack of data)

11.2. Information on other hazards

No additional information available.

12. ECOLOGICAL INFORMATION

Use in accordance with good work practices, avoiding dispersing the product in the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

12.1. Toxicity

Toxicity (EC ₁₀ , crustaceans):	240 mg/L/48h Daphnia magna
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12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Low bioaccumulation potential.

12.4. Results of PBT and vPvB assessment

According to available data, the product does not contain any PBT or vPvB substances in concentrations above 0.10%.

12.5. Endocrine disrupting properties

No data available.

12.6. Other adverse effects

No additional information available.

Product: **LACTIC ACID (EUR. PH.)**

Product code: 0065

Page 6 of 7

Emission date: 22/07/2026

Version: 0065_MSDS_ENG_0126



13.DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product: Consider all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14.INFORMACIÓN RELATIVA AL TRANSPORTE

The product should not be considered hazardous according to the applicable regulations for the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code), and air (IATA).

14.1. UN Number

Not classified as dangerous for transport.

14.2. UN proper shipping name

Not classified as dangerous for transport.

14.3. Transport hazard class(es)

Not classified as dangerous for transport.

14.4. Packing group

Not classified as dangerous for transport.

14.5. Environmental hazards

Not classified as dangerous for transport

14.6. Special precautions for user

Not classified as dangerous for transport.

14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous for transport.

15.REGULATORY INFORMATION

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

The Safety Data Sheet complies with the requirements of Regulation (EU) 2020/878 of the Commission of June 18, 2020, by which Annex II of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council is modified, relating to the registration, evaluation, authorization and restriction of chemical substances and mixtures (REACH).

15.2. Chemical safety assessment

No additional information available.

Product: **LACTIC ACID (EUR. PH.)**

Product code: 0065

Page 7 of 7

Emission date: 22/07/2026

Version: 0065_MSDS_ENG_0126



16. OTHER INFORMATION

Abbreviations and acronyms:

PBT: Persistent, bioaccumulative and toxic

mPmB: Very persistent and very bioaccumulative

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals

Data sources used:

Regulation (CE) No. 1272/2008 of the European Parliament and of the Council, of December 16, 2008, on the classification, labeling and packaging of substances and mixtures, and by which Directives 67/548/CEE and 1999 are modified and repealed /45/CE and modifies Regulation (CE) No. 1907/2006.

Regulation (EU) 2020/878 of the Commission of June 18, 2020, by which Annex II of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, regarding registration, evaluation, authorization and the restriction of chemical substances and mixtures (REACH)

Safety Data Sheet according to Annex II of REACH Regulation (EU) 2020/878

Department issuing the Safety Data Sheet:

Technical Department

The information in this Product Safety Data Sheet is based on current knowledge and current EC and national laws, as far as the working conditions of users are beyond our knowledge and control. The product must not be used for purposes other than those specified, without first having a written instruction on its handling. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established in the legislation.