

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

ACIDUM LACTICUM

EN

FORM-06-14-01 (V00)

Page 1/9

Publication: 19/02/2022

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Version: 00



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	Lactic acid Acidum lacticum Melkzuur Lactique (acide) Milchsäure
N° CAS:	79-33-4
N° EC:	201-196-2

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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1.3 Details of the supplier of the safety data sheet

Company:	FAC SECUNDUM ARTEM NV Oostmalsebaan 1c (unit 5) 2960 Sint-Lenaarts Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Skin Irrit. 2	H315
Eye Dam. 1	H318

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger

Hazard statements:

H315	Causes skin irritation.
H318	Causes serious eye damage.

Precautionary statements:

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor.
P321	Specific treatment (see on this label).

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 2/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



ACIDUM LACTICUM

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362

Take off contaminated clothing.

P332+P313

If skin irritation occurs: Get medical advice/attention.

Additional applicable label elements:

Not applicable.

2.3 Other hazards

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Lactic acid
IUPAC name:	(2S)-2- Hydroxypropanoic acid
Synonyms:	L-(+)-Lactic acid L-Lactic acid (S)-(+)-Lactic acid (S)-Lactic acid
N° CAS:	79-33-4
N° EC:	201-196-2
Molecular Formula:	$C_3H_6O_3$
Content:	88.0 per cent <i>m/m</i> to 92.0 per cent <i>m/m</i> of $C_3H_6O_3$

Mixture of 2-hydroxypropanoic acid, its condensation products, such as lactoyl-lactic acid and polylactic acids, and water. The equilibrium between lactic acid and polylactic acids depends on the concentration and temperature. It is usually the racemate ((RS)-lactic acid).

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes:	Consult a doctor. Show the safety data sheet to the doctor on duty.
After inhalation:	Take to fresh air. If breathing is irregular, call a doctor immediately. Only give artificial respiration if breathing stops or under medical supervision.
After skin contact:	Wash immediately with plenty of soap and water for at least 15 minutes. Remove all contaminated clothing immediately. Get medical attention if irritation develops and persists.
After eye contact:	Remove contact lenses and rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Get medical attention.
After ingestion:	If conscious, give the 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 due to substances, see section 11.

4.3 Indication of any immediate medical attention and special treatment needed

In cases of doubt, or when symptoms of discomfort persist, seek medical attention.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

ACIDUM LACTICUM

EN

FORM-06-14-01 (V00)

Page 3/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Foam, dry powder, carbon dioxide, sand, water mist. Neighbouring fires (containers exposed to fire): Water spray or fog.
Unsuitable extinguishing media:	Direct water jet.

5.2 Special hazards arising from the substance/mixture

Avoid inhalation of combustion products (carbon oxides, toxic pyrolysis products, etc.). The product is combustible and, when dusts are dispersed in air in sufficient concentrations, and in the presence of an ignition source, may give explosive mixtures with air. Fire may grow or be further ignited by the solid, by removing containers when elevated temperatures are reached or by contact with ignition sources.

5.3 Advice for firefighters

Surrounding fires:	Cool containers with water to prevent decomposition of product and development of potential health hazards. Always use full fire protection. Collect water that should not enter the sewage system. Dispose of contaminated water used for extinguishing and residues in accordance with current regulations.
Protection against fire:	Helmet with visor, flame retardant clothing (jacket and trousers with straps around the arms, legs and waist, EN 469), gloves (fireproof and dielectric, EN 659), a mask with face mask covering the whole face of the operator or the car (self protective) in case of large amounts of smoke, a self-contained breathing apparatus (EN 137).
Hazardous combustion products:	Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) or heat from the area where the leak occurred. Avoid dust, spray with water, if there are no contraindications.

In case of airborne dust, use respiratory protection. Stop leak if there is no risk. Do not handle damaged or spilled containers unless wearing appropriate protective equipment. For more information on environmental and health hazards, respiratory protection, ventilation and personal protective equipment, see other sections of this sheet.

For emergency responders

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) or heat from the area where the leak occurred. Avoid dust, spray with water, if there are no contraindications.

In case of airborne dust, use respiratory protection. Stop leak if there is no risk. Do not handle damaged or spilled containers unless wearing appropriate protective equipment. For more information on environmental and health hazards, respiratory protection, ventilation and personal protective equipment, see other sections of this sheet.

6.2 Environmental precautions

Prevent product from entering sewers, surface water, ground water and neighbouring areas.

6.3 Methods and material for containment and cleaning up

Absorb spilled product with inert absorbent material (sand, vermiculite, diatomaceous earth, diatomaceous earth, etc.). Sweep up most of the material and place it in containers for disposal. Dispose of waste with water if there are no contraindications. Ensure adequate ventilation of the leakage site. Disposal of contaminated material should be in accordance with section 13.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 4/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



ACIDUM LACTICUM

6.4 Reference to other sections

For exposure control and personal protective measures, see section 8.

For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling: Not available.

Personal protection: For personal protection, see section 8.

Technical protective measures: Not available.

Handling: Not available.

7.2 Conditions for safe storage, including any incompatibilities

Storage: The product does not require special storage measures.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed, in a cool, dry place, away from flames and sparks.

Storage – away from: Not available.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

Appropriate engineering control

Since the use of appropriate technical measures must always take precedence over personal protective equipment, ensure good ventilation at the workplace by effective local suction.

When choosing personal protective equipment, ask your chemical suppliers if this is necessary.

Personal protective equipment must be CE-marked for compliance with applicable regulations.

Provide an emergency shower with a viscoelastic tray.

Hygiene measures: Handle with proper industrial hygiene precautions, and observe safety practices. Wash hands before breaks and after finishing work.

Individual protection measures

Eye/face protection: Protective face shields and safety goggles according to EN166.

Skin protection: Choose body protection according to the quantity and concentration of the hazardous substance in the workplace.

Hand protection: Handle with gloves.

The selected protective gloves must comply with the specifications of EU Directive 89/686/EEC and the derived EN 374 standard.

Respiratory protection: Where risk assessment shows that air-purifying respirators are appropriate, use dust mask type N95 (USA) or type P1 (EN 143).

Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN (EU).

Thermal hazards: Not determined.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 5/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



ACIDUM LACTICUM

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Colourless or slightly yellow, syrupy liquid.
Odour:	Not available.
Odour threshold:	Not available.
pH:	(1%): 4.5 - 6.0
Melting/freezing point:	Not available.
Initial boiling point:	125 °C
Boiling range:	Not available.
Flash point:	112 °C
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	1.20 to 1.21 g/mL
Solubility:	Miscible with ethanol (96 per cent).
Solubility in water:	Miscible with water.
Partition coefficient (n-octanol/water):	LogPow -0.62 (20 °C)
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	60 mPa·s (25 °C)
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

Molecular weight: 90.01 g/mol
Density (25 °C): 1.215 g/mL

SECTION 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 recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Under normal conditions of use and storage, hazardous reactions are not predictable.

10.4 Conditions to avoid

None in particular. However, follow the usual precautions against chemicals.

10.5 Incompatible materials

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 6/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



ACIDUM LACTICUM

Not available.

10.6 Hazardous decomposition products

When heated or in the event of fire it can release gases and vapours that are hazardous to health.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Acute oral toxicity (LD ₅₀ , rat): 4875 mg/kg Acute inhalation toxicity (LD ₅₀ , rat): 7.94 mg/L/4 hr. Acute dermal toxicity (LD ₅₀ , rabbit): > 2000 mg/kg
Skin corrosion/irritation:	May cause skin irritation.
Serious eye damage/irritation:	May cause eye irritation.
Respiratory/skin sensitisation:	May cause respiratory irritation.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	No component of this product is identified as a probable, possible or confirmed human carcinogen at levels greater than or equal to 0.1%.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	May cause severe eye damage and may cause corneal opacity, iris lesions, irreversible eye discolouration.
Skin contact:	Harmful if absorbed through skin. May cause irritation, erythema, oedema, dryness and cracked skin.
Inhalation:	Harmful if inhaled. May cause moderate upper respiratory tract irritation.
Ingestion:	Harmful if swallowed. May cause health problems, including stomach pain with heartburn, nausea and vomiting.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity (EC₁₀, crustaceans): 240 mg/L/48 hours *Daphnia magna*

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

ACIDUM LACTICUM

EN

FORM-06-14-01 (V00)

Page 7/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

Contaminated container: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : It is not dangerous in transport.

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : It is not dangerous in transport.

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : It is not dangerous in transport.

14.4 Packing group

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : It is not dangerous in transport.

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : It is not dangerous in transport.

14.6 Special precautions for user

It is not dangerous in transport.

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

Not available.

14.8 Additional transport information

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

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases:

Corrosive

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

Page 8/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



ACIDUM LACTICUM

Safety phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

15.2 Chemical safety assessment

A chemical safety assessment of the product has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.
<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available.

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

ACIDUM LACTICUM

EN

FORM-06-14-01 (V00)

Page 9/9

Publication: 19/02/2022

Revision: 19/02/2022

Version: 00



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16.8 Department issuing MSDS

Quality Department

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