



Lactic acid

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 5/6/2011 Revision date: 1/18/2022 Supersedes version of: 3/13/2018 Version: 6.0

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

1.1. Product identifier

Name : Lactic acid / (L+) lactic acid
Trade name : Lactic acid
EC Index-No. : - / 607-743-00-5
EC-No. : 200-018-0 / 201-196-2
CAS-No. : 50-21-5 / 79-33-4
REACH registration No : 01-2119548400-48-0001 / 01-2119474164-39-0001

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Agriculture, forestry, fishery
Mining, (including offshore industries)
Offshore industries
Manufacture of food products
Manufacture of bulk, large scale chemicals (including petroleum products)
Manufacture of fine chemicals
General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
Building and construction work
Electricity, steam, gas water supply and sewage treatment
Manufacture of textiles, leather, fur
Manufacture of wood and wood products
Manufacture of pulp, paper and paper products
Printing and reproduction of recorded media
Manufacture of rubber products
Manufacture of plastics products, including compounding and conversion
Manufacture of other non-metallic mineral products, e.g. plasters, cement
Manufacture of furniture
Health services

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr. 1C H314
Eye Dam. 1 H318

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

:



GHS05

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P260 - Do not breathe mist, vapours, spray.
P280 - Wear protective gloves, protective clothing, eye protection.
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER, a doctor.
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

2.3. Other hazards

Other hazards which do not result in classification : Corrosive to the respiratory tract.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lactic acid / (L+) lactic acid	CAS-No.: 50-21-5 / 79-33-4 EC-No.: 200-018-0 / 201-196-2 EC Index-No.: - / 607-743-00-5 REACH-no: 01-2119548400-48-0001 / 01-2119474164-39-0001	> 10	Skin Corr. 1C, H314 Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If irritation persists, consult a doctor.
First-aid measures after skin contact	: Remove all contaminated clothing and footwear. Rinse immediately with plenty of water. If skin burns appear, call a doctor immediately.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms.
First-aid measures after ingestion	: Rinse mouth out with water. Never attempt to induce vomiting. Call a physician immediately.

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

Symptoms/effects	: Burns. Headache. Abdominal pain, nausea. Vomiting.
Symptoms/effects after inhalation	: Corrosive to respiratory system. Causes burns.
Symptoms/effects after skin contact	: Causes severe skin burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Carbon dioxide (CO₂). Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Firefighting instructions	: Cool down the containers exposed to heat with a water spray. Contain the extinguishing fluids by bunding.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Do not breathe vapours. In case of important spillage : Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Contain the spilled material by bunding. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

For containment : Liquid spill: take up in sand, earth, vermiculite.
Methods for cleaning up : Wash non-recoverable remainder with large amounts of water.
Other information : Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure adequate ventilation. Segregation of the emitting process. Effective contaminant extraction. Minimisation of manual phases. Avoid contact with skin and eyes. Do not breathe vapours. Avoid contact with contaminated tools and objects.
Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. Regular cleaning of equipment and work area. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Storage conditions : Keep container tightly closed and dry. Protect from heat and direct sunlight. Keep away from ignition sources.
Incompatible products : Strong oxidizing agents. Acids.

7.3. Specific end use(s)

Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety goggles. Face shield. (EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing. If there is a risk of liquid being splashed : Chemical resistant apron

Hand protection:

Protective gloves made of rubber. Butyl rubber. Chloroprene rubber. Polyvinylchloride (PVC). Nitrile rubber. Fluoroelastomer (FKM). Breakthrough time (min) : > 480

8.2.2.3. Respiratory protection

Respiratory protection:

If the ventilation is suitable, it is not essential to wear respiratory equipment. If mist is formed : Full face mask (ABEK/P2)

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Appearance	: Viscous.
Odour	: Odourless.
Odour threshold	: Not established
Melting point	: 53 °C (crystal lactic acid)
Freezing point	: Not available
Boiling point	: 216.6 °C Quantitative structure-activity relationship (QSAR)
Flammability	: Not available
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: No data available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Auto-ignition temperature	: ≥ 400 °C
Decomposition temperature	: > 200 °C
pH	: < 2 (25 °C)
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: 5 – 60 mPa·s
Solubility	: Water: Soluble

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Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: -0.72 – -0.54 (20 °C)
Vapour pressure	: Negligible.
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.04 – 1.25
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable.
Particle size distribution	: Not applicable.
Particle shape	: Not applicable.
Particle aspect ratio	: Not applicable.
Particle aggregation state	: Not applicable.
Particle agglomeration state	: Not applicable.
Particle specific surface area	: Not applicable.
Particle dustiness	: Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Can react violently with : Strong oxidizing agents.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)	
LD50 oral rat	3543 mg/kg (EPA OPP 81-1)
LD50 dermal rabbit	> 2000 mg/kg (EPA OPP 81-2)
LC50 inhalation rat	> 7.94 mg/l/4h (OECD 403)

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Skin corrosion/irritation	: Causes severe skin burns. pH: < 2 (25 °C)
Additional information	: (OECD 404 method)
Serious eye damage/irritation	: Causes serious eye damage. pH: < 2 (25 °C)
Additional information	: (equivalent or similar to OECD Guideline 438)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)

Skin sensitisation	Classification criteria are not met (EPA OPP 81-6)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)

Viscosity, kinematic	Not applicable.
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)

LC50 fish	130 mg/l/96h (Lepomis macrochirus) (EPA-669/3-75-009)
EC50 Daphnia	130 mg/l/48 h (Daphnia magna) (OECD 202 method)
ErC50 algae	≈ 3500 mg/l/72 h (Pseudokirchnerella subcapitata) (OECD 201 method)
NOEC chronic algae	1900 mg/l/72 h Pseudokirchneriella subcapitata (OECD 201 method)

12.2. Persistence and degradability

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)

Partition coefficient n-octanol/water (Log Pow)	-0.72 – -0.54 (20 °C)
Bioaccumulative potential	Not bioaccumulable.

12.4. Mobility in soil

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)

Mobility in soil	Small adsorption
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12.5. Results of PBT and vPvB assessment

Lactic acid / (L+) lactic acid (50-21-5 / 79-33-4)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3265	UN 3265	UN 3265	UN 3265	UN 3265
14.2. UN proper shipping name				
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Lactic acid)	Corrosive liquid, acidic, organic, n.o.s. (Lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Lactic acid)
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Special transport precautions : No additional information available

Overland transport

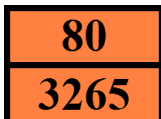
Classification code (ADR) : C3
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I

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Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel restriction code (ADR) : E

Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SGG1, SG36, SG49

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

Inland waterway transport

Classification code (ADN)	: C3
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: C3
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN

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Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Lactic acid / (L+) lactic acid is not on the REACH Candidate List

Lactic acid / (L+) lactic acid is not on the REACH Annex XIV List

Lactic acid / (L+) lactic acid is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Lactic acid / (L+) lactic acid is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
1.1	EC Index-No.	Added	
1.2	Use of the substance/mixture	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	EUH-statements	Added	
2.2	Hazard statements (CLP)	Modified	
2.3	Other hazards not contributing to the classification	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after ingestion	Modified	
4.2	Symptoms/injuries after ingestion	Added	

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Indication of changes			
Section	Changed item	Change	Comments
4.2	Symptoms/effects after inhalation	Added	
4.2	Symptoms/injuries after skin contact	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Modified	
8.2	Respiratory protection	Modified	
8.2	Other information	Added	
8.2	Hand protection	Modified	
8.2	Skin and body protection	Modified	
8.2	Eye protection	Modified	
9.1	Boiling point	Modified	
9.1	Log Pow	Modified	
9.1	Auto-ignition temperature	Modified	
10.3	Possibility of hazardous reactions	Modified	
11.1	Reason for no classification	Modified	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	ATE (oral)	Added	
12.1	NOEC chronic algae	Added	
12.1	ErC50 (algae)	Modified	
12.1	EC50 Daphnia	Modified	
12.1	LC50 fish	Modified	
12.3	Log Pow	Modified	
14	Transport information	Added	
16	Abbreviations and acronyms	Added	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ErC50	EC50 in terms of reduction of growth rate
IATA	International Air Transport Association
	EPA (Environmental Protection Agency)
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances

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Abbreviations and acronyms:

PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources : CSR (Chemical safety report). IUCLID. HSDB (Hazardous Substances Data Bank).

Full text of H- and EUH-statements:

EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.