



Solid lactic acid (on support-LASDL)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

1.1. Product identifier

Product form : Mixture
Product name : Solid lactic acid (on support-LASDL)

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)
Mining (without offshore industries)
Manufacture, processing and distribution of substances and mixtures
Manufacture of pulp, paper and paper products
Manufacture of bulk, large scale chemicals (including petroleum products)
Manufacture of fine chemicals
Manufacture of plastics products, including compounding and conversion
Building and construction work
Health services
Formulation of preparations (mixtures)
Manufacture of food products
(See exposure scenario(s) nr 1)
Private household
(See exposure scenario(s) nr 2)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GALACTIC ESCANAFFLES
Place d'Escanaffles, 23
B-7760 Escanaffles
T +32 (0)69 45 49 21 - F +32 (0)69 45 49 26
MSDS@lactic.com

GALACTIC INC.
2730 W. Silver Spring Drive
Milwaukee, WI 53209
T: 414-462-3916 - F: 414-462-2070
galactic-us@lactic.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166 (public, 8am - 10pm, 7/7)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
USA	American Association of Poison Control Centers	515 King Street, Suite 510 VA 22314 Alexandria	1-800-222-1222

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315

Eye Dam. 1 H318

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Causes skin irritation.

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H315 - Causes skin irritation
H318 - Causes serious eye damage

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of 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
P310 - Immediately call a POISON CENTER/doctor/...
P321 - Specific treatment (see ... on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards

Other hazards not contributing to the classification

: None, to our knowledge.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(L+) lactic acid	(CAS No) 50-21-5 / 79-33-4 (EC no) 200-018-0 / 201-196-2 (REACH-no) 01-2119548400-48-0001 / 01-2119474164-39-0001	20 - 65	Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of H-statements: see section 16

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 case of redness or irritation, call a doctor.

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. Get medical advice/attention.

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

Symptoms/injuries : Burns. Headache. Abdominal pain, nausea. Vomiting.

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

Fire hazard : During combustion : Toxic fumes may be released. Carbon oxides (CO, CO₂).

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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.

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 dust. 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 : Sweep up or vacuum up the product.
- Methods for cleaning up : Wash away residue with large amounts of water.
- Other information : Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Extraction to remove dust at its source. Avoid contact with skin and eyes. Do not breathe dust.
- Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

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

(L+) lactic acid (50-21-5 / 79-33-4)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	592 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	35,4 mg/kg bodyweight/day
Acute - local effects, inhalation	296 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1,3 mg/l
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

- DNEL : (short term - inhalation - worker)
- PNEC : water (fresh water)

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Insulated gloves. Face-shield.

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Hand protection	: Protective gloves made of rubber. Breakthrough time (min) : > 480
Eye protection	: Face-shield
Skin and body protection	: Protective clothing
Respiratory protection	: If the ventilation is suitable, it is not essential to wear respiratory equipment. In case of dust formation use respirator with filter: P2



Environmental exposure controls	: Take all necessary precautions to avoid the accidental release of the product outside, due to the rupture of containers or transfer systems.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: No data available
Odour	: odourless.
Odour threshold	: Not established
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 53 °C (crystal lactic acid)
Freezing point	: Not required
Boiling point	: 110 - 130 °C Liquid
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: > 200 °C
Flammability (solid, gas)	: Non flammable
Vapour pressure	: Negligible.
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

9.2. Other information

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

On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO₂).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

(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)

Skin corrosion/irritation : Causes skin irritation. ((Results obtained on a similar product))
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : Not classified (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)
Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (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)

SECTION 12: Ecological information

12.1. Toxicity

(L+) lactic acid (50-21-5 / 79-33-4)	
LC50 fish	130 mg/l/96h (Lepomis macrochirus)
EC50 Daphnia	130 mg/l/48h (Daphnia magna)
ErC50 (algae)	2800 mg/l/72h (Pseudokirchnerella subcapitata)
NOEC (acute)	1900 mg/l (OECD 201)

12.2. Persistence and degradability

(L+) lactic acid (50-21-5 / 79-33-4)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

(L+) lactic acid (50-21-5 / 79-33-4)	
Log Pow	-0,72 (20 °C)
Bioaccumulative potential	Not bioaccumulable.

12.4. Mobility in soil

(L+) lactic acid (50-21-5 / 79-33-4)	
Mobility in soil	Small adsorption

12.5. Results of PBT and vPvB assessment

Component	
(L+) lactic acid (50-21-5 / 79-33-4)	The product does not meet the PBT and vPvB classification criteria

12.6. 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 / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable

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Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

(L+) lactic acid

SECTION 16: Other information

Indication of changes:

SDS changed section(s) : 2 - 3.

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

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation
H318	Causes serious eye damage

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method

SDS EU (REACH Annex II)

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