

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Sodium-L-lactate

Version 1.1

Revision Date 27.07.2016

Print Date 06.08.2017

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

1.1 Product identifier

Trade name : Sodium-L-lactate
Substance name : sodium-L-lactate aqueous solution
Molecular formula : C3-H5-O3-Na
Chemical identity : Sodium (S)-2-hydroxypropanoate
CAS-No. : 867-56-1
EC-No. : 212-762-3
REACH No. : 01-2119971048-33-0002

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

Use of the Sub- : Food/ feedstuff additives, Pharmaceutical substance, Person-
stance/Mixture : al care, Cleaning agent, Industrial use
Recommended restrictions : None known.
on use

1.3 Details of the supplier of the safety data sheet

Company : Gracefruit Limited
209 Glasgow Road
Longcroft
Bonnybridge
FK4 1QQ

Telephone :
Telefax :
Responsible/issuing person :

1.4 Emergency telephone number 01324 841353

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution

Chemical name	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Non-hazardous ingredients :			
Sodium-L-lactate	867-56-1 212-762-3 01-2119971048-33		60
H2O	7732-18-5 231-791-2 REACH - Annex IV - Exemptions		40

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where possible).
Show this safety data sheet to the doctor in attendance.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Immediately flush skin with large amounts of water.

In case of eye contact : If easy to do, remove contact lens, if worn.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : If swallowed, DO NOT induce vomiting.
If symptoms persist, call a physician.
Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : None known.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapour or mist.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.
- Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Eye protection : In case of splash hazard, please wear protective goggles.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the re-

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	sistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: Not required; except in case of aerosol formation. Use NIOSH approved respiratory protection.
Protective measures	: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Aqueous solution
Colour	: colourless, light yellow
Odour	: slight, characteristic
pH	: 6,5 - 7,5, 20 % (25 °C) (as aqueous solution)
Melting point/range	: No data available
Boiling point/boiling range	: 115 °C
Flash point	: does not flash
Evaporation rate	: No data available
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: No data available
Vapour density	: No data available
Density	: 1.260 - 1.340 g/cm ³ (20 °C)
Water solubility	: completely miscible
Auto-ignition temperature	: Not applicable
Thermal decomposition	: > 200 °C
Viscosity, dynamic	: 80 - 160 mPa.s (20 °C)
Explosive properties	: Not applicable

9.2 Other information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid

Conditions to avoid : Temperature > 200 °C

10.5 Incompatible materials

Materials to avoid : No data available
Avoid contact with other chemicals.

10.6 Hazardous decomposition products

Hazardous decomposition products : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Sodium-L-lactate:

Acute oral toxicity : LD50 Oral Rat: 2.000 mg/kg

Acute toxicity (other routes of administration) : LD50 Rat: 2.000 mg/kg
Application Route: i.p.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Components:

Sodium-L-lactate:

: Contact with eyes may cause irritation.

Respiratory or skin sensitisation

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Components:

Sodium-L-lactate:

: No known sensitising effect.

Germ cell mutagenicity

Components:

Sodium-L-lactate:

Germ cell mutagenicity- Assessment : No data available

Carcinogenicity

Components:

Sodium-L-lactate:

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

Reproductive toxicity

Components:

Sodium-L-lactate:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

Components:

Sodium-L-lactate:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Sodium-L-lactate:

Toxicity to daphnia and other aquatic invertebrates : Ecological injuries are not known or expected under normal use.

12.2 Persistence and degradability

Product:

Biodegradability : Test substance: L(+)-Lactic acid

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Readily biodegradable.

12.3 Bioaccumulative potential

Components:

Sodium-L-lactate:

Bioaccumulation : The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Partition coefficient: n-octanol/water : log Pow: -1,52 (20 °C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Components:

Sodium-L-lactate:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations. Do not dispose of together with household waste.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.2 Proper shipping name

ADR : Not dangerous goods
RID : Not dangerous goods
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14.3 Transport hazard class

ADR : Not dangerous goods

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RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.4 Packing group

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.5 Environmental hazards

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

The components of this product are reported in the following inventories:

EINECS : On the inventory, or in compliance with the inventory
TSCA : On TSCA Inventory
AICS : On the inventory, or in compliance with the inventory
DSL : All components of this product are on the Canadian DSL
NZIoC : On the inventory, or in compliance with the inventory
KECI : On the inventory, or in compliance with the inventory
ENCS : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory
REACH : Notification number: 01-2119971048-33-000

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

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This safety datasheet only contains information relating to safety and does not replace any product information or product specification.