



State of the Art Ingredients • Fast Friendly Service

Sodium Lactate

SECTION 1 :: PRODUCT IDENTIFICATION

Product Name: Sodium Lactate

INCI Name: Sodium Lactate

SECTION 2 :: INGREDIENTS

Chemical name of the substance Sodium-L(-)-2-hydroxy propionate aqueous solution.

Synonyms Sodium Lactate, Sodium-L(-)-2-hydroxy propionate
CAS-No. 867-56-1 EC-No 212-762-3

SECTION 3 :: HAZARDS IDENTIFICATION

Most important hazards
May cause eye irritation with susceptible persons.

SECTION 4 :: FIRST AID MEASURES

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Move to fresh air.
Skin contact	Wash off with plenty of water.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids
Ingestion	Drink plenty of water.
Major effects of exposure	May cause eye irritation with susceptible persons.

SECTION 5 :: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water, carbon dioxide (CO ₂), foam,
Extinguishing media which must not be used for safety reasons	None.
Specific hazards	Burning produces irritant fumes.
Special protective equipment for firefighters	None.
Specific methods	Standard procedure for chemical fires

SECTION 6 :: ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with eyes. Use personal protective equipment.
Environmental precautions	No special environmental precautions required
Methods for cleaning up	Flush with water.



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SECTION 7 :: HANDLING AND STORAGE

Handling
Technical measures/Precautions No special technical protective measures required.

Safe handling advice
Handle in accordance with good industrial hygiene and safety practice.

Storage
Technical measures/ Keep tightly closed in a dry place
Storage conditions Avoid long storage times.
Packaging material Steel and plastic packages

SECTION 8 :: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure
Insure adequate ventilation, especially in confined areas.

Control parameters None.

Personal protection equipment
Respiratory protection Not applicable.
Hand protection Not applicable.
Eye protection Safety glasses.
Skin and body protection Not applicable

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 :: PHYSICAL AND CHEMICAL PROPERTIES

Form aqueous solution Color light yellow
Odor slight / none pH 6.5 - 8.5 (10 - 60% aqueous solution) @ 77 deg F (25 deg C)
Molecular Weight not applicable Boiling point/range 221 deg F (105 deg C) (50% solution), 230 deg F (110 deg C) (60% solution)
Decomposition temperature >392 deg F(200 deg C)
Autoignition temperature not applicable
Flash point not applicable
Explosion limits not applicable
Density 1320 - 1340kg/m3 @ 68 deg F (20 deg C) (60 % solution)
Solubility Water solubility: completely soluble
Viscosity 80 - 160 mPa s @ 68 deg F (20 deg C)

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SECTION 10 :: STABILITY AND REACTIVITY

Stability	Stable at normal conditions.
Materials to avoid	None
Hazardous decomposition Products	Carbon oxides

SECTION 11 :: TOXICOLOGICAL INFORMATION

Acute toxicity
Health injuries are not known or expected under normal use
LD50/intraperitoneal/rat = 2000 mg/kg
LD50/oral/rat 2000 mg/kg.

Local effects
May cause eye irritation with susceptible persons.

Specific effects
Based on tests with L-lactic acid and its salts, there is no evidence to suggest carcinogenic nor mutagenic properties from lactic acid itself nor from the lactate portion of its metal salts

Further information
Natural product in the body.

SECTION 12 :: ECOLOGICAL INFORMATION

Mobility	Completely soluble in water.
Persistence / degradability	Product is a salt of lactic acid which is readily biodegradable.
Bioaccumulation	Unlikely.
Ecotoxicity	Ecological injuries are not known or expected under normal use.(No effect on Daphnia @ 10g/L.)

SECTION 13 :: DISPOSAL CONSIDERATIONS

Waste from residues / unused products
Can be disposed as waste water, when in compliance with local regulations.
Can be landfilled or incinerated, when in compliance with local regulations

Contaminated packaging
Clean container with water.
Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14 :: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations



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SECTION 15 :: REGULATORY INFORMATION

US Regulations

TSCA Inventory Status: Y (Sodium Lactate)

SARA III: N

California Proposition 65: N

Carcinogenic status. OSHA: N. NTP: N, IARC: N FDA. GRAS

EU Status

Not a hazardous substance or preparation according to EC-directives

67/548/EEC or 99/45/EC

EU Food additive (Sodium Lactate E325)

SECTION 16 :: OTHER INFORMATION

CAS-No.	72-17-3 (general)	EC-No	200-772-0 (general)	
NFPA Ratings (Scale 0-4)	0(health)-	0(flammability)-		0(reactivity)
HMIS Rating	0(health)- (protective equipment)	0(flammability)-		0(reactivity)-A

Further information on the safety assessment of sodium lactate and lactic acid can be obtained in a CFTA Report of June 6th 1997.

Disclaimer

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