

SAFETY DATA SHEET

Revision Date 12/07/2018
Date of the previous version 02/24/2015

SAFETY DATA SHEET
Version 3.0 US

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium L-lactate
Recommended Use	Food additive, Specialty chemical.
Uses advised against	No information available.
Supplier	Lab Alley, LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918
Emergency telephone	Infotrac: 800-535-5053

2. HAZARD(S) IDENTIFICATION

OSHA Regulatory Status	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Signal Word	Not applicable.
Hazard Statements	Not applicable.
Precautionary Statements	Not applicable.
Main symptoms	No acute and delayed symptoms and effects are observed.
Environmental hazard	Contains no substances known to be hazardous for the environment. See Section 12 for additional Ecological Information.
Physical state @20°C	Liquid
Appearance	Aqueous solution
Colour	Light yellow

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Odour	(Almost) Odourless
Interactions with Other Chemicals	Incompatible materials: None in particular.
Hazards Not Otherwise Classified (HNOC)	None known.
Unknown toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS-No	Weight %
Sodium (S)-lactate	867-56-1	10-60

4. FIRST AID MEASURES

General advice	No hazards which require special first aid measures. Wash contaminated clothing before reuse.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Main symptoms	No acute and delayed symptoms and effects are observed.
Notes to physician	Treat symptomatically.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE FIGHTING MEASURES

Flammable properties	The product itself does not burn.
Flash point	Not applicable.
Autoignition temperature	Not applicable.
Suitable Extinguishing Media	Water spray, Foam, Dry powder, Carbon dioxide (CO ₂).
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Special Hazard	Thermal decomposition can lead to release of irritating gases and vapours.
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus and protective suit.
Fire fighting measures	Evacuate non-essential personnel. Move containers from fire area if you can do it without risk. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Large amounts: Prevent further leakage or spillage if safe to do so. Dike to collect large spills. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water. Small amounts: Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Storage	Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	Contains no substances with occupational exposure limit values.
Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Storage	Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place.
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas. Keep at temperatures below 200 °C / 392 °F.
Personal Protective Equipment	
Eye protection	Tightly fitting safety goggles (EN166).
Hand Protection	Protective gloves (EN374): Butyl rubber. Glove thickness: 0.5 mm. Break through time: >8 hours.
Skin and body protection	Long sleeved clothing.
Respiratory protection	None under normal use conditions.
Recommended Filter Type	A, Brown.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.
Environmental Exposure Controls	The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state @20°C	Liquid
Appearance	Aqueous solution
Colour	Light yellow
Odour	(Almost) Odourless
pH	6.5-8.5 (@10-60%) (@25 °C)
Melting/freezing point	No information available
Boiling point/boiling range	105 °C / 221 °F (@50%), 110 °C / 230 °F (@60%)
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	No information available
Flammability Limits in Air	No information available
Explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	No information available
Solubility	
Water solubility	Miscible
Partition Coefficient (n-octanol/water)	<-1.52 (@20 °C)
Autoignition temperature	Not applicable
Decomposition temperature	> 200 °C / > 392 °F
Viscosity, dynamic	80-160 mPa.s (@20°C / 68 °F)
Explosive properties	Not applicable
Oxidising properties	Not applicable
Density	1320-1340 kg/m ³ (@60%) (@20 °C)

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Materials to Avoid	None in particular.
Conditions to Avoid	Temperatures above 200 °C / 392 °F.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerisation	No information available.
Hazardous Reactions	No information available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity	
Ingestion	No known effect.
Skin contact	No known effect.
Inhalation	No known effect.

Substance	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium (S)-lactate	>2000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>7.94 mg/L (Rat) 4h

Skin corrosion/irritation No known effect.

Serious eye damage/irritation No known effect.

Respiratory or skin sensitisation No known effect.

Specific target organ toxicity - Single exposure No known effect.

Aspiration hazard No known effect.

Chronic toxicity

Carcinogenicity Contains no ingredient listed as a carcinogen.

Germ cell mutagenicity Not known to cause heritable genetic damage.

Reproductive toxicity Not known to cause birth defects or have a deleterious effect on a developing fetus Not known to cause heritable genetic damage

Specific target organ toxicity - Repeated exposure No known effect.

Symptoms

Main symptoms No acute and delayed symptoms and effects are observed.

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects Contains no substances known to be hazardous for the environment.

Substance	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium (S)-lactate			LC50: >100 mg/L 3h	

Persistence and degradability Readily biodegradable.

Bioaccumulative potential Does not bioaccumulate.

Substance	Log P _{ow}	Bioconcentration factor (BCF)
Sodium (S)-lactate	<-1.52	

Mobility in soil No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods Dispose of in accordance with local regulations.

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

14. TRANSPORT INFORMATION

According to: US DOT, IMDG, ICAO/IATA, ADR.

Not regulated.

UN Number Not regulated.

Proper shipping name Not regulated.

Hazard class Not regulated.

Packaging group Not regulated.

Environmental hazards Not applicable.
IMDG Marine Pollutant No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable.

15. REGULATORY INFORMATION

International Inventories

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

No information available.

Other information

No information available.

International Regulations

Mexico

Mexico: No information available.

Canada

WHMIS Hazard Class

Not subject to WHMIS classification.

16. OTHER INFORMATION

Revision Date	12/07/2018
Version	3.0
Revision Note	Indication of the changes made to the previous version of the SDS: Company Logo, Company address.
Training Advice	Workers must be trained in the proper use and handling of this product as required under applicable regulations.
Abbreviations/acronyms	ACGIH TLV: American Conference of Governmental Industrial Hygienists - Treshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH: National Institute for Occupational Safety and Health - Immediately Dangerous to Life or Health OSHA: Occupational Safety and Health Administration IARC: International Agency for Research on Cancer NTP: National Toxicity Program SARA: Superfund Amendments and Reauthorization Act ACGIH: American Conference of Governmental Industrial Hygienists CFR: U.S. Code of Federal Regulations ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: Department of Transport IMDG: International Maritime Dangerous Goods Code IATA: International Air Transport Association ICAO: International Civil Aviation Organization WHMIS: Workplace Hazardous Materials Information System CPR: Controlled Products Regulations
SDS No.	CO00008
Subformat	COUS

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet