

# 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

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

## 2. HAZARD(S) IDENTIFICATION

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

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<b>Odour</b>	( Almost ) Odourless
<b>Interactions with Other Chemicals</b>	Incompatible materials: None in particular.
<b>Hazards Not Otherwise Classified (HNOC)</b>	None known.
<b>Unknown toxicity</b>	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

<b>General advice</b>	No hazards which require special first aid measures. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Rinse mouth. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur.
<b>Main symptoms</b>	No acute and delayed symptoms and effects are observed.
<b>Notes to physician</b>	Treat symptomatically.
<b>Protection of first-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

## 5. FIRE FIGHTING MEASURES

<b>Flammable properties</b>	The product itself does not burn.
<b>Flash point</b>	Not applicable.
<b>Autoignition temperature</b>	Not applicable.
<b>Suitable Extinguishing Media</b>	Water spray, Foam, Dry powder, Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special Hazard</b>	Thermal decomposition can lead to release of irritating gases and vapours.
<b>Protective Equipment and Precautions for Firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Fire fighting measures</b>	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.
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	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.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	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

<b>Handling</b>	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.
<b>Storage</b>	Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	Contains no substances with occupational exposure limit values.
<b>Handling</b>	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.
<b>Storage</b>	Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place.
<b>Appropriate engineering controls</b>	Ensure adequate ventilation, especially in confined areas. Keep at temperatures below 200 °C / 392 °F.
<b>Personal Protective Equipment</b>	
<b>Eye protection</b>	Tightly fitting safety goggles (EN166).
<b>Hand Protection</b>	Protective gloves (EN374): Butyl rubber. Glove thickness: 0.5 mm. Break through time: >8 hours.
<b>Skin and body protection</b>	Long sleeved clothing.
<b>Respiratory protection</b>	None under normal use conditions.
<b>Recommended Filter Type</b>	A, Brown.
<b>Hygiene Measures</b>	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.
<b>Environmental Exposure Controls</b>	The product should not be allowed to enter drains, water courses or the soil.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

<b>Acute toxicity</b>	
<b>Ingestion</b>	No known effect.
<b>Skin contact</b>	No known effect.
<b>Inhalation</b>	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.

## 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 <sub>ow</sub>	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/NDSL - 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

<b>Revision Date</b>	12/07/2018
<b>Version</b>	3.0
<b>Revision Note</b>	Indication of the changes made to the previous version of the SDS: Company Logo, Company address.
<b>Training Advice</b>	Workers must be trained in the proper use and handling of this product as required under applicable regulations.
<b>Abbreviations/acronyms</b>	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
<b>SDS No.</b>	CO00008
<b>Subformat</b>	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