

Sodium L-Lactate

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.			
NFPA	Health hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health hazard 0	flammability 0	Physical hazard 0	Personal protection B

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.



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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. Keep at temperatures below 200 °C / 392 °F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines

Contains no substances with occupational exposure limit values.

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.



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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	Decomposes
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
Explosion 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)	Log Pow: <-1.52 (@20°C)
Autoignition temperature	Not applicable
Decomposition temperature	> 200 °C / > 392 °F
Viscosity, dynamic	80-160 mPa.s (@20°C)
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.



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11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Acute Toxicity

Ingestion

No known effect.

Skin Contact

No known effect.

Inhalation

No known effect.

Chemical name	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.

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 adversely affect reproductive functions and organs.

STOT-single exposure

No known effect.

STOT-repeated exposure

No known effect.



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12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Contains no substances known to be hazardous for the environment.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Micro-organisms	Toxicity to daphnia and other aquatic invertebrates
Sodium (S)-lactate	EC50: >2.8 g/L 72h Pseudokirchnerella subcapitata EC50: 3.5 g/L 70h Pseudokirchnerella subcapitata	LC50: 130 mg/L 96h Oncorhynchus mykiss LC50: 320 mg/L 96h Danio rerio	LC50: >100 mg/L 3h	EC50: 130 mg/L 48h Daphnia magna EC50: 250 mg/L 48h Daphnia magna

Persistence and degradability

Readily biodegradable.

Bioaccumulative potential

Does not bioaccumulate.

Chemical name	Log Pow	Bioconcentration factor (BCF)
Sodium (S)-lactate	<-1.52	

Mobility in soil

No information available.

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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.

Proper Shipping Name

Not regulated.



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15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL/NDSL
Sodium (S)-lactate	Present	X

TSCA Listed
DSL Listed
NDSL Not listed

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

Canada

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

WHMIS Hazard Class

Not subject to WHMIS classification.



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16. OTHER INFORMATION

Revision date	02/24/2015
Version	2.1
Revision note	Trade name, Canada (Classification).
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 NFPA: National Fire Protection Association HMIS: Hazardous Materials Identification System ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route DOT: Department of Transport IMDG: International Maritime Dangerous Goods Code IATA: International Air Transport Association ICAO: International Civil Aviation Organization
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Disclaimer

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End of Safety Data Sheet