







Injection Ready 60% QRS-SLTM Sodium Lactate Quick Release Substrate SAFETY DATA SHEET

Effective Date: 01-01-2020

1. Product Identification

Synonyms: Quick Release Substrate (QRSTM-SL); Sodium Lactate;

Propanoic acid, 2-Hydroxy Monosodium salt; L-Lactic

Acid, Sodium Salt

Recommended Use: Treatment of groundwater contaminated with chlorinated

solvents and other anaerobically degradable compounds.

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2. Hazards Identification

Emergency Overview

Caution: May cause eye irritation.

Health Rating:1 - SlightFlammability Rating:0 - NoneReactivity Rating:0 - NoneContact Rating:1 - Slight

Protective Equipment: Goggles; Proper Gloves **Storage Color Code:** Orange (General Storage)

Potential Health Effects

Inhalation: Not expected to be a health hazard

Ingestion: Not expected to be a health hazard via ingestion

Skin Contact: No adverse effects expected

Eye Contact: May cause irritation, possible reddening

Chronic Exposure: No information found

Aggravation of Pre-existing

Conditions: No information found

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3. Composition/Information on Ingredients

Ingredient	CAS#	Percent	Hazardous
Sodium Lactate	72-17-3	60	Yes
Water	7732-18-5	40	No

4. First Aid Measures

Inhalation: Not expected to require first aid measures. Remove to fresh air.

Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, give water to drink and get

medical advice.

Skin Contact: Not expected to require first aid measures. Wash exposed area

with soap and water. Get medical advice if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15

minutes, lifting upper and lower eyelids occasionally. Get

medical attention if irritation persists.

5. Fire Fighting Measures

Fire: Flash point: 110 C (230 F). Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding

fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-

approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive

pressure mode.

6. Accidental Release Measures

Clean-up personnel may require protective clothing. Absorb in sand, paper towels, "Oil Dry", or other inert material. Scoop up and containerize for disposal. Flush trace residues to sewer with soap and water. Containerized waste may be sent to an approved waste disposal facility.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid long storage times. Containers of this material may be hazardous when empty since they do retain product residues (vapors, liquid). Observe all warnings and precautions listed for the product.









8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: Not expected to require any special ventilation.

Personal Respirators (NIOSH

Approved): Not expected to require personal respirator usage.

Skin Protection: Wear protective gloves and clean body-covering clothing. **Eye Protection:** Use chemical safety goggles and/or a full face shield where

splashing is possible. Provide readily accessible eye wash

stations and safety showers.

Slips, Trips, and Falls: Material is slippery when spilled. Clean up with sand, paper

towels, or other inert material.

9. Physical and Chemical Properties

Appearance: Colorless to yellow liquid.

Odor: Odorless

Solubility: 100% soluble in water.

Specific Gravity (water=1): 1.32. (11.01 pounds per gallon)

pH: 6.5-8.5

% Volatiles by volume

@ 21C (70F): No information found.

Boiling Point: 110 C (230 F) **Melting Point:** 17 C (63 F)

Flash Point (F):
Autoignition Temperature:
No information found
No information found
No information found.

Vapor Density (Air=1): 0.7

Vapor Pressure (mm Hg): 14 @ 20 C (68 F) Evaporation Rate (BuAc=1): No information found Viscosity @23 C (73 F): 100 centipoises

Partition Coefficient

(octanol/water): No information found

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Reactivity: Not reactive under ordinary conditions.

Hazardous Decomposition

Products: Carbon dioxide and carbon monoxide may form when

heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers, acids.

Conditions to Avoid: Incompatibles. Isolate from heat and open flame.

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11. Toxicological Information

Oral rat LD50: 2000 mg/Kg. Irritation Data for Sodium Lactate: (Std Draize, rabbit,

eye): 100 mg - mild.

12. Ecological Information

Environmental Fate: Mobile with water and readily biodegradable

Environmental Toxicity: Ecological injuries are not known or expected under

normal use; (No effect on Daphnia @ 10g/L)

Degradability: This product is completely biodegradable under both aerobic

and anaerobic conditions.

Soil Mobility: This compound will move with groundwater until the adsorbed

onto the soil. Degradation products may be mobile.

Bioaccumulation Potential: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.









15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----Ingredient TSCA EC Japan Australia Sodium Lactate (72-17-3) Yes Yes Yes Yes Yes Yes Yes Water (7732-18-5) Yes -----\Chemical Inventory Status - Part 2\-------Canada--Ingredient Korea DSL NDSL Phil. Sodium Lactate (72-17-3) Yes Yes No Yes Water (7732-18-5) Yes Yes No Yes -----\Federal, State & International Regulations - Part 1\------SARA 302- -----SARA 313-----Ingredient RQ TPQ List Chemical Catg. Sodium Lactate (72-17-3) No No No No Water (7732-18-5) No No No No -----\Federal, State & International Regulations - Part 2\------RCRA- -TSCA-Ingredient CERCLA 261.33 8(d) Sodium Lactate (72-17-3) No No No Water (7732-18-5) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: No (Mixture / Liquid)

16. Other Information

NFPA Ratings: Health: **1** Flammability: **0** Reactivity: **0**

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Revision Information: SDS Section(s) changed since last revision of document

include: None.

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comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the

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