

SAFETY DATA SHEET



1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Identifier:	Wilclear Sodium Lactate 60% Solution
Other Name(s):	sodium lactate
Recommended Use:	In-situ Bioremediation
Recommended Restrictions:	none known
Supplier Name:	JRW Bioremediation, LLC
Address:	14321 W. 96 th Terrace Lenexa, KS 66215
Telephone:	913-438-5544
EMERGENCY Telephone:	800-779-5545 x 116 (Mon-Fri 9am-5pm CST) 913-961-6644 (afterhours)

2. HAZARD IDENTIFICATION

Health & Physical Hazards:

This product contains no substances in their current physical state that are considered to be hazardous to health and has a low order of toxicity. No acute or delayed symptoms or effects have been observed.

Flammability Hazards:

This is a Non-Flammable liquid

Reactivity Hazards:

This product is considered stable. There are no known physical or chemical hazards, incompatibilities, hazardous decomposition or byproducts.

OSHA Hazards: L

This material is not considered hazardous by OSHA. No labels or signage are known to be required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	% by Weight	Hazard Classification
Sodium lactate	72-17-3	60%	none
Water	7732-18-5	40%	none

4. FIRST-AID MEASURES

Inhalation:

Inhalation of mist may cause mild irritation of respiratory system. Move to fresh air.

Skin Contact:

In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. Seek medical attention if skin Irritation develops or persists.

Eye Contact:

In case of contact with eyes, immediately flush eyes with water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get medical attention if necessary.

Ingestion:

If swallowed, rinse mouth. Should symptoms occur, get medical attention.

Signs and symptoms of exposure:

None determined. Treat symptomatically.

Medical Conditions aggravated by exposure:

None determined. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water, carbon dioxide, foam, or dry chemical.

Unsuitable Extinguishing Media:

Do not use heavy water stream as it may spread or scatter.

Specific hazards from substance/mixture:

Thermal decomposition may lead to release of irritating or toxic gases and vapors.

General fire hazards:

No unusual fire or explosion hazards noted

Special protective equipment / precautions for fire-fighters:

Wear full protective clothing and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Methods and Materials for containment and clean up:

Contain spill with absorbent materials such as vermiculite or soil; shovel and place material in drum for disposal. Flush area with water. Surfaces may become slippery after spillage. Dispose of according to all local, state, and federal regulations at an approved waste treatment facility.

Personal precautions / Protective equipment:

Use personal protective equipment. Prevent spills, contamination, and leakage.

Environmental precautions:

No special environmental precautions required.

7. HANDLING AND STORAGE

Precautions for safe handling:

Observe good work and industrial hygiene practices. Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Avoid breathing mists and vapors. Wash hands after use of this product. Do not eat, drink, or smoke while using product. Prevent spills, contamination, and leakage.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Keep in properly labeled containers. Store in a well ventilated, cool, dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: No exposure or biological limits noted for ingredients(s).

Appropriate engineering controls: Use adequate mechanical ventilation, especially in confined spaces. Local exhaust is recommended.
Temperatures best kept below 200⁰ C or 390⁰ F.

Individual protection measures, such as Personal Protective Equipment (PPE):

Eye/Face protection:	Chemical goggles recommended.
Skin / hand / body protection:	Chemical resistant gloves recommended. Suitable protective clothing as defined by employer.
Respiratory protection:	None required under normal use.
General considerations:	Use good industrial hygiene and best safety practices. When using material, do not eat, drink, or smoke. Remove and wash any contaminated clothing before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to light yellow
Physical state:	liquid
Odor:	slight to no odor
Odor threshold:	not applicable
pH:	6.0 - 8.5
Melting point/freezing point:	decomposes
Initial boiling point:	221°F
Closed cup Flash point:	not applicable
Evaporation rate:	not determined
Flammability (solid, gas):	not determined
Upper/lower flammability or explosive limits:	not determined
Vapor pressure (Mg Hg):	not determined
Vapor density (air = 1):	not determined
Density:	1320-1340 kg/m ³
Viscosity	100cP @ 20 ⁰
Molecular Weight:	112.07
Solubility in water:	soluble
Auto-ignition temperature:	not determined
Decomposition temperature:	>200 ⁰ C / >392 °F
Specific Gravity (H₂O = 1):	1.32 H ₂ O=1 @ 20°C

10. STABILITY AND REACTIVITY

Reactivity:	Non-reactive under conditions of normal use, storage & transport.
Chemical stability:	Stable under conditions of normal use, storage and transport.
Possibility of hazardous reactions:	
Conditions to avoid:	Temperatures above >200 ⁰ C / >392 °F
Incompatible materials:	None in particular.
Hazardous decomposition products:	None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is used as intended and in accordance with this Safety Data Sheet.

- Inhalation:** No known effects but if symptoms are experienced, remove source of contamination or move to fresh air.
- Ingestion:** If swallowed, get medical attention.
- Skin:** In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. No known effect but seek medical attention if skin irritation develops or persists.
- Eye contact:** In case of contact with eyes, immediately flush eyes with water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get medical attention if necessary.

Signs & symptoms of exposure:

- Carcinogenicity:** Contains no known ingredient listed as carcinogen.
- Mutagenicity:** No known effect.
- Reproductive Toxicity:** No known effect.

12. ECOLOGICAL INFORMATION

- Ecotoxicity:** Product is not considered environmentally hazardous and is not expected to cause significant harm to aquatic, animal, or plant life.
- Persistence/degradability:** Readily biodegradable.
- Bioaccumulative potential:** Not expected to bioconcentrate or bioaccumulate.
- Mobility in soil:** No specific information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Contain spill with absorbent materials such as clay or soil and shovel and place material in drum for disposal. Surfaces may become slippery after spillage. Dispose of according to all local, state, and federal regulations at an approved waste treatment facility.

14. TRANSPORTATION INFORMATION

DOT hazard class:	Not Applicable, non-regulated
Labeling:	Not Applicable
Proper Shipping Name:	Wilclear® Sodium Lactate 60% Solution
NMFC#:	46400.02
Class	70

15. REGULATORY INFORMATION

Restrictions on use: None.

Other regulations: No information available or not applicable.

16. OTHER INFORMATION

The information in this SDS summarizes to the best of our knowledge at the date of issue, the chemical health and safety hazards of this material and general guidance for safe handling, use, processing, storage, transportation, disposal, and release. This information is not intended to be considered a warranty or quality specifications. The information contained relates only to the specific material designated and may not be valid if used in conjunction with other materials or in any other processes other than intended use. If further clarification or information is required, please contact JRW Bioremediation.