

# SAFETY DATA SHEET



## 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

<b>Product Identifier:</b>	Wilclear Plus <sup>®</sup> Lactate with Accelerite <sup>®</sup>
<b>Recommended Use:</b>	In-situ Bioremediation
<b>Recommended Restrictions:</b>	none known
<b>Supplier Name:</b>	JRW Bioremediation, LLC
<b>Address:</b>	14321 W. 96 <sup>th</sup> Terrace Lenexa, KS 66215
<b>Telephone:</b>	913-438-5544
<b>EMERGENCY Telephone:</b>	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. While the chemical, physical, and toxicological properties have not been thoroughly examined, no acute or delayed symptoms or effects have been observed to date.

### Flammability Hazards:

This is a Non-Flammable liquid but it is recommended to avoid temperatures above 150°C.

### Reactivity Hazards:

This product is considered stable. Thermal decomposition may lead to release of irritating gases and vapors. Hazardous polymerization is not expected to occur. Fermentation can occur when diluted with water.

### OSHA Hazards:

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
Sodium lactate	72-17-3	33-40%
Sodium propionate	137-40-6	0-8%
Sodium acetate	127-09-3	0-8%
Sodium butyrate	156-54-7	0-8%
<b>Total sodium carboxylates</b>		<b>45-50%</b>
Carbohydrates & fermentation metabolites	68476-78-8	15-20%
Water	7732-18-5	40%

### 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, get medical attention.

**Signs and symptoms of exposure:**

Mild irritation to skin and eyes upon contact; mild irritation to respiratory system upon inhalation.

**Medical Conditions aggravated by exposure:**

None determined. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water, carbon dioxide, or dry chemical.
<b>Unsuitable Extinguishing Media:</b>	Do not use heavy water stream as it may spread or scatter.
<b>Specific hazards from substance/mixture:</b>	Thermal decomposition may lead to release of irritating or toxic gases and vapors.
<b>General fire hazards:</b>	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

<b>Control parameters:</b>	No exposure or biological limits noted for ingredients(s).
<b>Appropriate engineering controls:</b>	Use adequate mechanical ventilation, especially in confined spaces. Temperatures best kept below 150 <sup>0</sup> C.
<b>Individual protection measures, such as Personal Protective Equipment (PPE):</b>	
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 in well ventilated area.
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

<b>Appearance:</b>	light to medium brown
<b>Physical state:</b>	liquid
<b>Odor:</b>	slight sweet yeast-like aroma
<b>Odor threshold:</b>	not applicable
<b>pH:</b>	not determined
<b>Melting point/freezing point:</b>	not determined
<b>Initial boiling point:</b>	>100°C
<b>Closed cup Flash point:</b>	not applicable
<b>Evaporation rate:</b>	not determined
<b>Flammability (solid, gas):</b>	not determined
<b>Upper/lower flammability or explosive limits:</b>	not determined
<b>Vapor pressure (Mg Hg):</b>	not determined
<b>Vapor density (air = 1):</b>	not determined
<b>Density:</b>	not determined
<b>Viscosity</b>	not determined
<b>Solubility in water:</b>	completely soluble
<b>Auto-ignition temperature:</b>	not determined
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	>1

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Non-reactive under conditions of normal use, storage & transport.
<b>Chemical stability:</b>	Stable under conditions of normal use, storage and transport.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	Temperatures above >150 <sup>0</sup> C.
<b>Incompatible materials:</b>	Fermentation can occur when diluted with water.
<b>Hazardous decomposition products:</b>	Thermal decomposition may lead to release of irritating gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

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

<b>Inhalation:</b>	Inhalation of mist may cause mild irritation of respiratory system. Move to fresh air.
<b>Ingestion:</b>	If swallowed, get medical attention.
<b>Skin:</b>	In case of contact with skin, immediately wash with plenty of soap and water while removing contaminated clothing. May cause mild irritation. Seek medical attention if skin irritation develops or persists.
<b>Eye contact:</b>	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.
<b>Signs &amp; symptoms of exposure:</b>	Mild irritation to skin and eyes upon contact; mild irritation to respiratory system upon inhalation.
<b>Carcinogenicity:</b>	Contains no known ingredient listed as carcinogen.
<b>Mutagenicity:</b>	No known effect.
<b>Reproductive Toxicity:</b>	No known effect.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Product is not considered environmentally hazardous and is not expected to cause significant harm to aquatic, animal, or plant life.
<b>Persistence/degradability:</b>	Readily biodegradable.
<b>Bioaccumulative potential:</b>	Not expected to bioconcentrate or bioaccumulate.
<b>Mobility in soil:</b>	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

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

## 15. REGULATORY INFORMATION

<b>Restrictions on use:</b>	None.
<b>Other regulations:</b>	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.