

WILCLEAR
MSDS REPORT (1)

Status: Current
Status Date: 08/08/2003
Product Name: WILCLEAR® SODIUM LACTATE 60% SOLUTION, U.S.P.

Current Company Information:

JRW Bioremediation, LLC
14321 W. 96TH TERRACE
LENEXA, KS 66215.
Fax: 913-438-5554 Emergency: 913-438-5544

MSDS Prepared: 12/07/1994
MSDS Revised: 08/08/2003

Formula: CH₃-CHOH-COONa
Keyword: ORGANIC ACID SALT
Stock Item(s): S-110-2

Physical/Chemical Characteristics

Boiling Point: 105 °C
Specific Gravity: 1.323 H₂O=1 @ 20°C
Vapor Density: Air=1 NA
Evaporation Rate: NA
Melt/Freeze Point: NA
pH: 6.5-7.5
% Volatile: NA
Vapor Pressure: NA
Pour Point: NA
Viscosity: 100cP @ 20°C
Molecular weight: 112.07
Solubility In Water: SOLUBLE
Appearance/Odor: CLEAR AND COLORLESS LIQUID, ODORLESS
Physical State: Liquid

FIRE AND EXPLOSION DATA:

Closed Cup Flash Pt.: NA
Open cup Flash Point: NA
Auto Ignition: NA
Fire Point: NA
LEL/LFL: NA
UEL/UFL: NA

DOT INFORMATION:

DOT hazard class: NA
Label: NA
Proper shipping Name: WilClear® SODIUM LACTATE 60%

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COMPOSITION/INFORMATION ON INGREDIENTS

Component Name: SODIUM LACTATE
Product: Yes Percent: 60
CAS No.: 72-17-3
Exposure Limits
Limit Note: OSHA PPM: NA \ ACGIH PPM: NA \ OSHA STEL PPM: NA

Component Name: WATER
Percent: 40
CAS No.: 7732-18-5
Exposure Limits
Limit Note: OSHA PPM: NA \ ACGIH PPM: NA \ OSHA STEL PPM: NA

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| Hazardous Components (optional) Specific Chemical Identity: Common Name(s) | OSHA PEL | ACGIH TLV | Other Limits | % Recommended |
|--|----------|-----------|--------------|---------------|
| None | | | | |

FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA Flammable Limits: NA LEL: NA UEL: NA
Extinguishing Media: Water, Carbon Dioxide or Dry chemical.
Special Fire Fighting procedures: Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Fire may produce irritating or toxic fumes.

REACTIVITY DATA

Stability: Stable. Conditions to Avoid: NA
Incompatibility (Materials to Avoid): NA
Hazardous Decomposition or Byproducts; NA
Hazardous Polymerization: Will not occur.

HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? Yes Skin? NA Ingestion? Yes
Health Hazards (Acute and chronic): No specific data. Low order of toxicity. The chemical, physical, and toxicological properties have not been thoroughly investigated.
Carcinogenicity: NTP? NA IARC Monographs? NA OSHA Regulated? NA TSCA Registered? Yes
Signs and symptoms of Exposure: NA
Medical Conditions Generally Aggravated by Exposure: NA

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Emergency and First Aid Procedures:

SKIN: In case of contact with skin, immediately wash with soap and water while removing contaminated clothing.

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

INHALATION: If inhaled, remove person from contaminated atmosphere to fresh air

INGESTION: If swallowed, get medical attention.

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Contain spill and place material in drum for disposal. Dispose of according to all local, state and federal regulations at an approved waste treatment facility.

Precautions to Be Taken in Handling and Storing: Store in cool, dry area to preserve product quality.

Other Precautions: NA

CONTROL MEASURES/PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection (Specify Type): None.

Ventilation: General Ventilation: Is recommended.

Local Exhaust: Is recommended.

Other: NA

Protective Gloves: Are recommended.

Eye Protection: Is recommended.

Other Protective Clothing or Equipment: NA

Work/Hygienic Practices: NA

END OF REPORT.