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Date Signed: 3-1-04

Transportation: Chemtrec

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**MATERIAL SAFETY DATA SHEET**

**I. IDENTIFICATION**

PRODUCT NAME: Laidlaw Powder Rust Sour  
CHEMICAL NAME: Laundry Sour  
CAS NUMBER: MIXTURE  
EMERGENCY TELEPHONE NUMBER: (618) 524-9394

**II. COMPONENTS AND HAZARD INFORMATION**

HAZARDOUS COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
Sodium Fluorosilicate	16893-85-9	2.5 mg/m <sup>3</sup>	N/A	65.00%
Sodium Bifluoride	1333-83-1	2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>	20.00%

D.O.T. Hazard Classification: Sodium Fluorosilicate, 6.1, UN 2674, PG III  
Hazardous Materials Identification System (HMIS)

Health 1	Flammability 0	Reactivity 0	BASIS Recommended by Laidlaw BASIS Calculated TLV REF ACGIH
TLV for Total Product Not determined.			

**III. PHYSICAL DATA**

Boiling Point N/A pH (1.0% Solution) 3.4 ± .5  
Vapor Pressure N/A Percent Volatiles Not Applicable  
Specific Gravity 1.78 (H20=1) Evaporation Rate N/A

**IV. FIRE AND EXPLOSION DATA**

Flash Point (°F TCC) N/A  
Extinguishing Media N/A

Special Firefighting Procedures Do not use water to fight nearby fire since in its presence of water, product will react with some metals to liberate hydrogen, a flammable gas.

Unusual Fire & Explosion Hazards N/A

National Fire Protection Association (NFPA) - Hazard Identification

Health 1	Flammability 0	Reactivity 0	BASIS Recommended by Laidlaw
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**V. HEALTH HAZARD DATA**

Effects of Overexposure:

Eyes: May aggravate existing eye conditions on contact. Causes irritation and burning of the eyes.

Skin: May aggravate existing skin conditions on contact. The effect of local dermal exposure may consist of superficial destruction of the skin or primary irritant dermatitis.

Breathing: Can cause irritation of the nose and throat. High concentrations may cause coughing and choking and damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.

Swallowing: Poisonous if swallowed.

LIDLAW POWDER RUST SOUR

First Aid Procedures:

- Swallowing: Drink large amounts of water to dilute. Do not induce vomiting. Several glasses of milk or several ounces of milk of magnesia may be given for their soothing effect. Take victim to a medical facility immediately.
- Skin: Remove victim from the contaminated area and immediately wash the burned area with plenty of water for at least 15 minutes or until medical aid arrives. Remove contaminated clothing while washing continuously.
- Inhalation: Remove to fresh air. Keep victim lying down, quiet, and warm. Get medical attention immediately.
- Eyes: Irrigate for at least 15 minutes with copious quantities of water, keeping eyelids apart and away from eyeballs during irrigation.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized.

**VI. REACTIVITY DATA**

- Hazardous Polymerization: Will not occur.
- Stability: Stable.
- Incompatibility: Avoid contact with acids.
- Hazardous Decomposition Products: Hydrogen gas from contact with some metals. May also liberate hydrogen fluoride or silicone tetrafluoride.

**VII. SPILL OR LEAK PROCEDURES**

Steps to be taken in case material is released or spilled:

Cleanup personnel must wear proper protective equipment. If material is spilled, steps should be taken to contain liquids and prevent discharges to streams or sewer systems. Spills or releases should be reported, if required, to the appropriate local, state, and federal regulatory agencies.

**VIII. PROTECTION AND PRECAUTIONS**

Respiratory Protection: NIOSH / MSHA approved respirator for particulates. Local exhaust and ventilation as needed.

Ventilation: General mechanical ventilation or local exhaust should be used to keep concentrations below TLV.

Protective Gloves: Neoprene gloves should be worn. Wash after use with soap and water.

Eye Protection: Safety glasses or goggles should be worn in dusty areas.

Other Protective Equipment: Protective clothing may be worn in dusty areas, but is generally not required.

Store in a cool, dry, and well ventilated area. Protect from humidity.

Incompatible materials. Do not puncture, drag, or slide containers. Do not smoke in any chemical handling or storage area.

**IX. PRECAUTIONS OR OTHER COMMENTS**

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.

The information and recommendations accumulated herein are to the best of Laidlaw's knowledge and belief, accurate and reliable as of the date issued. Laidlaw does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof.

HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these systems together with Laidlaw's interpretation of the available data.

Information from the manufacturer of this product has also been incorporated in the data presented in this document.