

MATERIAL SAFETY DATA SHEET

PRODUCT Liquid Rust Sour



HMIS HAZARD RATINGS:

Health 2
Flammability 0
Physical hazards 1



SECTION 1: PRODUCT INFORMATION

Manufacturer: CK Enterprises, Inc., 1204 SW Jefferson St., Lee's Summit, MO 64063
EMERGENCY TELEPHONE NUMBERS: CHEMTREC (800) 424-9300 24 HRS 7 DAYS A WEEK; ADCO (800) 821-7556 (8-5 M-F)
Intended Product Use: Laundry sour
Synonyms:

SECTION 2: HAZARDOUS INGREDIENTS

Table with 5 columns: Chemical Name, %, CAS #, OSHA PEL, LD 50. Rows include Ammonium bifluoride and Hydrofluorosilicic acid.

SECTION 3: PHYSICAL DATA

Appearance: Water white liquid
Odor: Odorless
Specific Gravity (20° C): 1.20
pH: No data
Boiling Point: 220°F
Solubility in Water: Soluble
Vapor Pressure (mm Hg): No data
Vapor Density: No data

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): N/A
Upper Flammable Limit: N/A
Lower Flammable Limit: N/A
Extinguishing Media: For fires involving this product, water spray, carbon dioxide, foam or dry chemical may be used.
Special Fire Fighting Procedures: Self-contained positive pressure breathing apparatus and protective clothing should be worn.
Unusual Fire and Explosion Hazards: None

SECTION 5: REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Heat, sparks and flames. Temperatures above 250°C
Incompatibility (materials to avoid): Material attacks glass
Hazardous Decomposition Products: Hydrogen fluoride, ammonia
Hazardous Polymerization: Will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Slight
Effects of Overexposure: Acute: Can cause severe skin irritation and corrosion. Causes irritation and burning of the eyes. If ingested, can cause nausea and vomiting. Coughing and difficulty of breathing can result if inhaled. Chronic: None known.
Carcinogenicity: None of the ingredients of this mixture have been identified as a carcinogen or probable carcinogen by ACGIH, IARC, or OSHA.

†Hazard ratings and other information are based on latest available information from tests on product or ingredients of mixtures. The data and evaluations are accurate to the best of ADCO's knowledge. No guarantee or liability is expressed or implied.

EXPOSURE LIMITS 2.5 mg/m <sup>3</sup> (ammonium bifluoride)	IRRITANCY OF PRODUCT Severe eye and skin	SENSITIZATION TO PRODUCT None reported	CARCINOGENICITY No components are listed by ACGIH, IARC, or OSHA
TERATOGENICITY No effects reported	REPRODUCTIVE TOXICITY No effects reported	MUTAGENICITY None reported	SYNERGISTIC PRODUCTS None reported

Based on known toxicity of components. No test data available on mixture.

## SECTION 7: PREVENTATIVE MEASURES

### SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use self-contained breathing apparatus in high vapor concentrations.

Ventilation: General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV.  
Ventilation equipment should be explosion proof.

Protective Gloves: Chemical resistant rubber or neoprene gloves are recommended. Rubber aprons should be used.

Eye Protection: Chemical splash goggles or face shield is recommended.

Eye wash and safety shower recommended to be available in work areas.

### STORAGE AND HANDLING:

Keep container tightly closed when not in use. Store at moderate temperatures. Do not contaminate.  
Keep from freezing. Have eyewash accessible to use in handling areas.

### SPILL OR LEAK PROCEDURES:

Restrict access to the area until completion of cleanup. Use acid suits and acid-resistant containers for possible reuse. Absorb the remaining material with sand, vermiculite, or other absorbent material, or neutralize with soda ash, sodium bicarbonate, limestone, or lime, until acidity is neutralized.

### WASTE DISPOSAL METHOD:

Dispose of in accordance with all Federal, State, and Local pollution control regulations.

### RECOMMENDED PRECAUTIONARY LABELING:

#### CAUTION:

Use with adequate ventilation. Avoid prolonged breathing of vapors. Avoid contact with skin and eyes as severe irritation and corrosion can occur.

#### FIRST AID:

Flush eyes with water for 15 minutes, holding lids open. Rinse skin with plenty of water. Wash contaminated clothing before reuse. Remove person to fresh air. If ingested, give large quantities of water if conscious. Do NOT induce vomiting. Get medical attention for eye contact or ingestion. Treat in all cases like hydrofluoric acid contact.

**KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**

This product is intended for professional use only by trained personnel.

## SECTION 8: FIRST AID

Inhalation: Remove person to fresh air. Begin CPR if breathing has stopped, and seek immediate medical attention.

Eyes: Flush immediately with plenty of clean water for at least 15 minutes. Seek immediate medical attention.

Skin: Flush immediately with plenty of clean water. If burns or rash develop, seek medical attention.

Ingestion: **DO NOT** induce vomiting. Give victim milk or water **ONLY** if conscious. **NEVER** give anything orally to unconscious person. Keep victim warm. Seek immediate medical attention.

Treat in all cases like hydrofluoric acid contact.

## SECTION 9: SARA TITLE III

NOTE: This product does not contain any components which are under the reporting requirements of SARA Title III, Section 313.

## SECTION 10: PREPARATION DATE

This information is provided for guidance only based on information we have compiled. No guarantee of accuracy or completeness is expressed or implied.

ADCO RESEARCH DEPARTMENT

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