



MATERIAL SAFETY DATA SHEET

I. PRODUCT AND COMPANY INFORMATION

TRADE NAME: Rust Control
CHEMICAL FAMILY: Liquid Sour

Date Prepared: 10/18/2007
Version: 2

HCS (Division of Washing Systems, LLC)
5579 Spellmire Dr.
Cincinnati, OH 45246
513-870-4830
EMERGENCY CONTACT: CHEMTREC (800-424-9300)

II. HAZARDOUS INGREDIENTS

The materials listed in this data sheet are classified as **HAZARDOUS** in accordance with the definition set forth by the Occupational Safety and Health Administration in 29 CFR 1910.1200.

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>EXPOSURE LIMIT</u>
Ammonium Bifluoride	Ammonium Hydrogen Fluoride	2.5 mg/m ³ TLV (as F)
Hydrofluoric Acid	Hydrofluoric Acid	2.5 mg/m ³ TLV (as F)

III. PHYSICAL/CHEMICAL CHARACTERISTICS

<u>APPEARANCE & ODOR</u>	<u>VAPOR DENSITY (AIR=1)</u>	<u>BOILING POINT</u>	<u>SOLUBILITY IN WATER</u>
Clear, Colorless, Odorless Liquid	UNK	ND	Soluble (> 1%)
<u>SPECIFIC GRAVITY</u>	<u>EVAPORATION RATE (N-Butyl Acetate=1)</u>	<u>VAPOR PRESSURE (mmHg)</u>	<u>MELTING POINT</u>
1.050	ND	UNK	N/A

IV. FIRE AND EXPLOSION DATA

<u>FLASHPOINT</u>	<u>FLAMMABLE LIMITS</u> (lower limit) (upper limit)	<u>AUTO IGNITION TEMP</u>
>200°F	N/A N/A	N/A

EXTINGUISHING AGENTS: Product is not combustible.

SPECIAL FIRE FIGHTING PROCEDURES: Thermal decomposition can lead to release of irritating gases and vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: For fires in areas where this material is stored, do not enter any enclosed or confined space without proper protective equipment, including self-contained breathing apparatus.

V. REACTIVITY DATA

<u>STABILITY</u>	<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>	<u>MATERIALS TO AVOID</u>	<u>HAZARDOUS POLYMERIZATION</u>
Stable	None reasonably foreseen	Chlorites, Combustible Solids, Organic Peroxides, Certain Metals, Strong Alkalies	Will not occur.

VI. HEALTH HAZARD DATA

- SKIN:** ACUTE Corrosive, May cause permanent damage. Very toxic in contact with skin.
CHRONIC Permanent damage.
- EYES:** ACUTE Causes severe burns that result in damage to the eyes and possibly blindness.
CHRONIC None Known
- INHALATION:** ACUTE Inhalation of fumes may result in irritation of the nose, throat, and respiratory tract.
CHRONIC None Known
- INGESTION:** ACUTE Causes burns to the mouth, throat, and digestive tract. If ingested, ammonium bifluoride may disrupt the body's electrolyte balance by binding essential metal ions such as magnesium and calcium with may disrupt normal health and nervous system functions. Effects may be delayed as much as 4 hours after exposure.
CHRONIC Can cause death.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Persons with pre-existing skin disorders may be more susceptible to irritating effects.

CARCINOGENICITY

OSHA: NO

IARC MONOGRAPHS: NO

NTP: NO

EMERGENCY AND FIRST AID PROCEDURES

- SKIN:** Responders should put on appropriate personal protective equipment to protect themselves before assisting victims. Remove all contaminated clothing. Immediately flush the affected area for five minutes with large amounts of water. While the victim is being rinsed with water, have someone call to arrange medical treatment. Immediately after flushing with water, start massaging 2.5% calcium glucagon gel into the burn site. Responders must wear gloves when applying the gel to prevent secondary HF burns to their hands. Apply the gel every 15 minutes. Call a physician immediately.
- EYES:** Immediately flush with plenty of cool water under low pressure. Flush continuously for at least 15 minutes. Hold eyelids open and move eye while flushing. Seek medical attention immediately. If possible, apply ice water compresses during transport.
- INHALATION:** Remove to fresh air. Seek medical attention immediately. Inhalation of HF fumes may cause swelling in the respiratory tract up to 24 hrs after exposure. Persons who have inhaled HF fumes may need prophylactic oxygen treatment and should be seen by a physician as soon as possible.
- INGESTION:** Never give anything by mouth to an unconscious person. **DO NOT INDUCE VOMITING.** If conscious give large quantities of water. If vomiting occurs spontaneously, keep airway clear. | Call a physician immediately.

VII. SPILL OR LEAK PROCEDURES

Earthen dikes may be constructed to contain the spill. Cover contaminated area with sodium bicarbonate or a mixture of equal parts soda ash and slaked lime. Dispose of in a manner approved by local, state, and federal regulations. Contains no phosphates.

SPECIAL PRECAUTIONS

Store in a cool, well-ventilated area away from alkalies and chlorine containing compounds.

VIII. CONTROL MEASURES

<u>RESPIRATORY PROTECTION</u>	<u>EYE PROTECTION</u>	<u>PROTECTIVE GLOVES</u>	<u>OTHER PROTECTIVE EQUIPMENT</u>
No special requirements under normal use conditions.	Safety Goggles plus Full Face Shield	Rubber	Impervious protective clothing and chemically resistant safety shoes
	<u>VENTILATION:</u> <u>Mechanical</u>	<u>Local</u>	<u>Special</u>
	Normal Air Dilution	None	None

N/A = Not Applicable
 ND = Not Determined
 UNK = Unknown at This Time
 TLV = Threshold Limit Value

RUST CONTROL