



## Chemical Specialties Manufacturing Corporation

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# MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910.1200)

Degree of hazard: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant

Health 2  
Flammability 0  
Reactivity 0

### SECTION I: PRODUCT IDENTIFICATION

**PRODUCT NAME:** Rust Remover

**DATE REVIEWED:** October 2, 2003

**DOC CODE:** Rust Remover

**CHEMICAL FAMILY:** Mixture.

**EMERGENCY 24-HOUR TELEPHONE #** 1-800-424-9300 (CHEMTREC)

N/A = Not applicable or Not available.

N/D = Not determined.

### SECTION II: COMPOSITION/ INFORMATION ON INGREDIENTS

This product has not been tested as a whole for health effects on animals or humans. According to the OSHA Hazardous Communications Standard (29 CFR 1910.1200) any hazardous ingredients that comprise >1.0% of the material and any carcinogenic ingredients that comprise >0.1% must be listed on the MSDS. When individually tested at 100% ingredients in the make-up of this product posed the following health hazards.

#### SECTION II a: HAZARDOUS INGREDIENTS >1.0%

Chemical Name	CAS #	PEL	TLV
Ammonium Hydrogen Fluoride	1341-49-7	N/A	N/A

#### SECTION II b: CARCINOGENIC INGREDIENTS AT >0.1%

None.

### SECTION III: HAZARDS IDENTIFICATION

EYES: Corrosive to eyes.  
SKIN: Corrosive to skin.  
INHALATION: None expected.  
INGESTION: May cause abdominal discomfort, nausea and diarrhea.

### SECTION IV: FIRST AID PROCEDURES

EYES: Flush with water for at least 15 minutes. If irritation persists consult physician.  
INGESTION: Drink 1 to 2 glasses of water. Consult physician.  
INHALED: Remove to fresh air. If symptoms persist or are severe seek prompt medical assistance.  
SKIN: Remove contaminated clothing. Thoroughly wash exposed area with soap and water.  
PHYSICIAN: Treatment based on judgment of attending physician.

*Rust Remover*

### SECTION V: FIRE AND EXPLOSION DATA

FLASH POINT: N/A  
AUTO-IGNITION TEMPERATURE: N/D  
EXPLOSIVE LIMITS - UEL: N/D LEL: N/D  
EXTINGUISHING MEDIA: Alcohol foam, water fog, CO<sub>2</sub> or dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH/MSHA approved self-contained positive pressure breathing apparatus and protective clothing where this material is involved in a fire.  
UNUSUAL FIRE AND EXPLOSION HAZARD: None known.

Soak up spilled material with absorbant clay and dispose according to local, state and federal regulations.

## SECTION VII: HANDLING AND STORAGE

No special precautions required.

## SECTION VIII: PROTECTION MEASURES

VENTILATION: Local exhaust or dilution ventilation is necessary in poorly ventilated areas.  
GLOVES: Rubber gloves.  
RESPIRATORY: Not usually required.  
EYE: Safety glasses. Wear splash goggles when mists or aerosols are anticipated.  
OTHER PROTECTIVE EQUIPMENT: Body-covering clothing should be worn.

## SECTION IX: PHYSICAL/CHEMICAL DATA

APPEARANCE AND ODOR: Clear colorless liquid with low odor.  
WATER SOLUBILITY, % BY WT.: > 95  
SPECIFIC GRAVITY: 1.03  
WT/GAL: 8.6 lbs.  
% VOLATILE BY WT.: 90 - 95  
BOILING POINT: Approximately 212 F  
pH: 4.5 - 5.5

## SECTION X: REACTIVITY DATA

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur.  
INCOMPATIBILITY: Strong Acids  
HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: Possibly oxides of carbon and other unidentified organic compounds.

## SECTION XI: TOXICOLOGICAL INFORMATION OF INGREDIENTS

Ammonium Hydrogen Fluoride: Oral rat LD50 is 350 mg/kg.

## SECTION XII: ECOLOGICAL INFORMATION

Ready to use solution is biodegradable. No other information is available.

## SECTION XIII: SPILL, LEAK AND DISPOSAL PROCEDURES

WASTE DISPOSAL: In accordance with Federal, state and local regulations.  
NEUTRALIZING CHEMICALS: Water.

*Rust Remover*

## SECTION XIV: TRANSPORT INFORMATION PER 49 CFR 172.101

GROUND TRANSPORTATION:  
12-1 QUART CASE – ORM-D.

Corrosive, Toxic (Ammonium Hydrogendifluoride), Class 8, UN 2817, PG III.

**AIR TRANSPORTATION:**

Corrosive, Toxic (Ammonium Hydrogendifluoride), Class 8, UN 2817, PG III.

Quantity Limitations: 5L. Aircraft: Passenger.

Quantity Limitations: 60 L. Aircraft: Cargo.

**MARITIME TRANSPORTATION:**

Corrosive, Toxic (Ammonium Hydrogendifluoride), Class 8, UN 2817, PG III.

IMDG PAGE #: 8112.

**SECTION XV: REGULATORY INFORMATION**

**Domestic:**

TSCA: All ingredients are listed on the TSCA chemical substance inventory.

SARA Section 313 Ingredients: None.

California Prop 65 Ingredients: None.

**International:**

European:

Symbol: Corrosive.

R-Sentences: C; R34.

S-Sentences: S2, S24, S25, S26, S37, S39.

Canadian:

WHMIS Hazard Class: E

**SECTION XVI: OTHER INFORMATION**

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

**DISCLAIMER OF LIABILITY**

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof.