

# MATERIAL SAFETY DATA SHEET

Flammability	Physical Hazards
Health	Personal Protection

## SECTION I - MATERIAL IDENTIFICATION AND USE

<b>Material Name</b> Rust Remover / Quality Cleaning <b>Manufacturer</b> Crown Chemical Products Inc. <b>Street Address</b> 6125 Netherhart Rd Mississauga Ontario L5T 1G5 <b>Emergency Tel.</b> (905) 564-0904 <b>Chemical Name</b> n/ap <b>Molecular Weight</b> n/av	<b>Supplier's Name</b> Quality Cleaning Supplies and Services 2000 Inc. <b>Supplier's Address</b> 1800 Courtney Park East, Unit #1 Mississauga, On L5T 1W1 <b>Chemical Family</b> Strong Acid <b>Material Use</b> Rust Remover
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## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentration %	C.A.S. N.A. or U. N. Numbers	Exposure Limits	LD <sub>50</sub> /LC <sub>50</sub> Specify Species and Route
Hydrofluoric Acid	10-30	7664-398-3	Tiv 3PPM HF	LD50 N/AV LC50 544ppm/4H (INHL, RAT)
Ammonium Bifluoride	10-30	1341-49-7	<u>OSHA PEL</u> <u>ACGIH</u> 215 (F) 2.5 (F)	LD50 N/AV

## SECTION III - PHYSICAL DATA FOR MATERIAL

<b>Physical State</b> Liquid	<b>Odour and Appearance</b> Pungent odour, water white.	
<b>Specific Gravity</b> 1.1	<b>Evaporation Rate</b> n/av	<b>Boiling Point (°C)</b> 100
<b>Freezing Point (°C)</b> 0	<b>Solubility in Water (20°C)</b> Complete	<b>% Volatile (by volume)</b> Unknown
<b>pH</b> n/ap	<b>Density (g/ml)</b>	<b>Coefficient of Water/Oil Distribution</b> n/av

## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

**Flammability (If yes, under which conditions:)** Yes.

**Means of Extinction** Use water or suitable agent for adjacent fires.

**Special Procedures** Keep containers cool by water spray-use self contained breathing apparatus.

**Flashpoint (°C) and Method** n/ap      **UEL (% By Vol.)** n/ap      **LEL (% By Vol.)** n/ap

**Auto Ignition Temp. (°C)** n/ap      **TDG Flammability Classification** n/ap

**Hazardous Combustion Products**

**Explosion Data - Sensitivity to Chemical Impact** n/av      **Rate of Burning** n/av

**Explosive Power** n/av      **Sensitivity to Static Discharge** n/av

## SECTION V - REACTIVITY DATA

**Chemical Stability** Yes.

**Incompatibility to Other Substances** Yes Most metals and many inorganic materials.

**Reactivity and Under What Conditions?** Reaction with certain metals generate flammable and potentially explosive Hydrogen gas.

**Hazardous Decomposition Products** Hydrogen when in contact with metals;, HF gas can be released.

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## SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

**Route Of Entry**  Skin Contact  Skin Absorption  Eye Contact  Inhalation Acute  Inhalation Chronic  Ingestion

**Effects Of Acute** Severe irritation to respiratory system, skin, eyes and digestive tract. Extremely corrosive and  
**Exposure To Product** poisonous.

**Effects Of Chronic** Bone and joint changes in humans (Fluorosis) embryo toxic in the rat at 0.74-4.98mg/cu.m/4hr  
**Exposure To Product** daily or duration of gestation.

**Irritancy Of Product** High

**Exposure Limits Of Product** n/av

**Sensitization To Product** n/av

**Synergistic Materials** n/av

Carcinogenicity  Reproductive Effects  Teratogenicity  Mutagenicity

No information available.

## SECTION VII - PREVENTIVE MEASURES

### Personal Protective Equipment

**Gloves** Rubber or plastic

**Respiratory** Use a NIOSH approved respirator

**Eye** Plastic lens goggles

**Footwear** Chem'l resistance

**Clothing** Rubber apron

**Other**

**Engineering Controls** Sufficient ventilation to reduce vapours & Acid mists Below TLV levels.

**Leak And Spill Procedure** Neutralize with soda ash and wash with water. Wear full protective equipment

**Waste Disposal** Flush residue in accordance with applicable disposal regulations.

**Handling Procedures And Equipment** Eye and face protection recommended. Rinse affected parts with water immediately.

**Storage Requirements** Store away from metals and oxidizing materials.

**Special Shipping Information** Danger / Poison.

## SECTION VIII - FIRST AID MEASURES

**Skin** Remove contaminated clothing . Flush with water. Get medical help.

**Eye** Rinse with water for at least 15 minutes. Get medical help.

**Inhalation** Remove to fresh air.

**Ingestion** Get medical help immediately. Drink lots of water.

**General Advise** See attached first aid treatment .

## SECTION IX - PREPARATION DATE OF M.S.D.S.

**Additional Information/Comments** The information herein is given in good faith but no warranty, expressed or implied, is made.

### Sources Used

**Prepared By:** Crown Chemical Products Inc.

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