

MATERIAL SAFETY DATA SHEET

Flammability	Reactivity
Health	Personal Protection

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Rust Remover
Manufacturer Crown Chemical Products Inc. **Supplier's Name**
Street Address 6125 Netherhart Rd **Supplier's Address**
 Mississauga Ontario
 L5T 1G5
Emergency Tel. (905) 564-0904
Chemical Name n/ap **Chemical Family** Strong Acid
Molecular Weight n/av **Material Use** Rust Remover

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentration %	C.A.S. N.A. or U.N. Numbers	Exposure Limits	LD ₅₀ /LC ₅₀ 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	OSHA PEL ACGIH 215 (F) 2.5 (F)	LD50 N/AV

SECTION III - PHYSICAL DATA FOR MATERIAL

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

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability (If yes, under which conditions:) No
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. High Temperature
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 Absorptior Eye Contact Inhalation Acute Inhalation Chronic Ingestior

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

Effects Of Chronic Bone and joint changes in humans (Fluorosis) embryo toxic in the rat at
Exposure To Product 0.74-4.98mg/cu.m/4hr 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. Phone Number (905) 564-0904 Date August 1, 2006