

MATERIAL SAFETY DATA SHEET

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|--------------|---------------------|
| Flammability | Reactivity |
| Health | Personal Protection |

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Rust Remover WHMIS Class D1A, E

Manufacturer Crown Chemical Products Inc.

Street Address 6125 Netherhart Rd
Mississauga Ontario
L5T 1G5

Emergency Tel. (905) 564-0904

Chemical Name n/ap

Molecular Weight n/av

Supplier's Name

Supplier's Address

Chemical Family Strong Acid

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 | <u>OSHA PEL</u> <u>ACGIH</u> 215 (F) 2.5 (F) | LD50 N/AV |

SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State Liquid

Specific Gravity 1.1

Freezing Point (°C) 0

pH n/ap

Odour and Appearance Pungent odour, water white.

Evaporation Rate n/av

Solubility in Water (20°C) Complete

Density (g/ml)

Boiling Point (°C) 100

% Volatile (by volume) Unknown

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

Auto Ignition Temp. (°C) n/ap

Hazardous Combustion Products

Explosion Data - Sensitivity to Chemical Impact n/av

Explosive Power n/av

UEL (% By Vol.) n/ap

LEL (% By Vol.) n/ap

TDG Flammability Classification n/ap

Rate of Burning 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.

Phone Number (905) 564-0904

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