

MATERIAL SAFETY DATA SHEET

Flammability 0	Physical Hazards 3
Health 3	Personal Protection E

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Rust Remover WHMIS Class D1A, E

Manufacturer Crown Chemical Products Inc.

Supplier's Name

Street Address 6125 Netherhart Rd
Mississauga Ontario
L5T 1G5

Supplier's Address

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	Tlv 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	Odour and Appearance Pungent odour, water white.
Specific Gravity 1.1	Evaporation Rate n/av
Freezing Point (°C) 0	Boiling Point (°C) 100
pH n/ap	Solubility in Water (20°C) Complete
Density (g/ml)	% 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

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.

MATERIAL SAFETY DATA SHEET

Material Name Rust Remover WHMIS Class D1A, E

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

Date January 12, 2017