

MATERIAL SAFETY DATA SHEET

Flammability 0	Reactivity 3
Health 3	Personal Protection

SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Aluminum Cleaner & Brightener WHMIS Class D-1A,E
Manufacturer Crown Chemical Products Inc. **Supplier's Name**
Street Address 6125 Netherhart Road. **Supplier's Address**
 Mississauga Ontario.
 L5T 1G5
Emergency Tel. (905) 564-0904
Chemical Name **Chemical Family** Acid
Molecular Weight **Material Use**

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	1-5	un 1790	TLV 3ppm HF	LC50 (INHL, RAT) 544 ppm/4 hours
Phosphoric Acid	10-30	un 1805	TLV 1mg/m ³	
Nonionic Surfactant	3-7	9002-92-0	n/av	LD50 (Oral, Rat) 4150 mg/Kg
Butyl Cellosolve	3-7	111.76.2	TLV 60ppm	LD50 530mg/Kg (Oral, Rat)

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 n/ap
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 No. High temperature
Incompatibility to Other Substances Yes. Most metals and many inorganic materials.
Reactivity and Under What Conditions? Reaction with certain metals generate flammable & 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 Irritation to respiratory system and eyes. Poisonous and severe corrosive effect.

Exposure To Product

Effects Of Chronic Bone and joint changes in humans (Fluorosis) EmbryoToxic in the RAT at 0.47-4.98mg/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 Noish approved respirator

Eye Plastic lens goggles

Footwear Chemical resist.

Clothing Rubber apron

Other

Engineering Controls Sufficient ventilation to reduce vapours & acid mists below TLV levels. Wear full protective equipment.

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

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

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