

# MATERIAL SAFETY DATA SHEET

(10148)

Flammability	Physical Hazards
Health	Personal Protection

## SECTION I - MATERIAL IDENTIFICATION AND USE

**Material Name** Master Plumber Industrial Strength Delimiting Solution  
**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** Hydrochloric Acid **Chemical Family** Acid  
**Molecular Weight** 36.5 **Material Use** Scale Delimer

## 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
Muriatic acid	10-30	7647.01.0	TLV-TWA 5ppm 7mg/m <sup>3</sup>	470ppm for 30min. (INHLATION, RAT)

**APPROVED MATERIAL**

APR 01 2013

MSDS # 10148

APPROVED BY *[Signature]*

## SECTION III - PHYSICAL DATA FOR MATERIAL

**Physical State** Liquid **Odour and Appearance** sharp, pungent odour, green  
**Specific Gravity** 1.08 **Evaporation Rate** n/ap **Boiling Point (°C)** 99  
**Freezing Point (°C)** 0 **Solubility in Water (20°C)** completely **% Volatile (by volume)** n/ap  
**pH** n/ap **Density (g/ml)** n/av **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** n/ap  
**Special Procedures** protect firefighters against corrosive fumes and liquid if released  
**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** UN 1789, PKG.III, Class8  
**Hazardous Combustion Products** Hydrogen when in contact with metal.  
**Explosion Data - Sensitivity to Chemical Impact** reacts with metals **Rate of Burning** n/av  
**Explosive Power** n/av **Sensitivity to Static Discharge** n/av

## SECTION V - REACTIVITY DATA

**Chemical Stability** Yes. Bowl cleaner loses hydrogen chloride gas upon heating.  
**Incompatibility to Other Substances** Yes. Organic amines, oxides and polyerizable monomers.  
**Reactivity and Under What Conditions?** Reacts with most common metals. May react violently with many inorganic materials. Do not mix with organic amines, oxides and polymerizable monomers.  
**Hazardous Decomposition Products** Hydrogen when in contact with metals; hydrogen chloride gas upon heating.

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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** Skin - severe burns. Eyes - severe irritation to mucous membranes. Inhalation - coughing, choking. Ingestion - corrosion of mucous membranes esophagus, stomach, nausea vomiting. Circulatory collapse and death may occur.

**Effects Of Chronic** Skin - Dermatitis & photosensitization may occur. Eyes - Permanent visual damage may occur.  
**Exposure To Product** Inhalation - Inflammation and ulceration of respiratory tract may occur.

**Irritancy Of Product** n/av

**Exposure Limits Of Product** n/av

**Sensitization To Product** n/av

**Synergistic Materials** n/av

Carcinogenicity  Reproductive Effects  Teratogenicity  Mutagenicity

No known systemic effects with above.

## SECTION VII - PREVENTIVE MEASURES

**Personal Protective Equipment**

**Gloves** Rubber Gloves

**Respiratory** Canister Type

**Eye Goggles**

**Footwear** Rubber Boots

**Clothing** Rubber if possible

**Other** Safety Apron

**Engineering Controls** Local exhaust - prevent condensate of moisture. Control HCL fumes below TLV.

**Leak And Spill Procedure** Neutralize with soda ash, caustic soda, or lime and wash down with excess water.

**Waste Disposal** In accordance with local, provincial, and federal by-laws.

**Handling Procedures And Equipment** Do not use ammonia due to potential fuming problems.

**Storage Requirements** Keep containers closed, use with adequate ventilation. Keep out of sun and away from direct sources of heat, metals and oxidizing.

**Special Shipping Information** Materials (particularly nitric acid and chlorates)

## SECTION VIII - FIRST AID MEASURES

**Skin** Remove contaminated clothing immediately and flush with clean water for at least 15 minutes. Get medical help promptly.

**Eye** Hold eyelids open and wash thoroughly with clean water for at least 15 minutes. Get medical help immediately.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Give oxygen by qualified personnel if breathing is difficult. Get medical help immediately.

**Ingestion** Get medical help immediately. Patient should drink large amounts of water or milk. Do not induce vomiting.

**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**

**Prepared By:** Crown Chemical Products Inc. **Phone Number** (905) 564-0904 **Date** January 21, 2013