

DESCRIPTION

Scale Away is an acid cleaner designed to remove hard water scale build-up on most steel, stainless steel, glass, fiberglass, plastic, concrete and ceramic surfaces.

Scale Away can also remove the unsightly deposits from soap scum, mineral deposits and rust build-up on these surfaces including toilet bowls, urinals, shower stalls, and sinks.

Scale Away contains special inhibitors, which prevent corrosion to steel and stainless steel metals while allowing the scale deposits to be dissolved.

SPECIAL INFORMATION

Strong acid - avoid contact with eyes and skin. Do not breathe **Scale Away's** vapors and keep container tightly closed. Store upright at temperatures above freezing and do not mix with Bleach or any other cleaners. Do not use on soft metals such as Aluminum.

DIRECTIONS

Heavy deposits:

Dilute **Scale Away** at 128 oz per US gallon of water (1000ml/liter) (1:1).

Light to medium scale deposits:

Dilute **Scale Away** at 20 oz per US gallon of water (250 ml/liter) (1:4) and apply solution with an acid-resistant brush or swab.

If deposit is heavy, scrub surface with a brush. Wipe up any excess solution and discard. Rinse thoroughly with water. In difficult cases, repeat the application if necessary.

Be sure to wear eye protection and gloves when using **Scale Away**.

PHYSICAL DATA

Appearance	Clear liquid
Color	Colorless
Foam	Low
Odor	Mild acidic
pH (3.1%)	1.0 - 2.0

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **SCALE AWAY**

Product Use: *Acid scale remover.*

M-chem Technologies Inc.
1607 Derwent Way
Delta, BC V3M 6K8, Canada
Phone: (604) 526-5655

WHMIS CODE: E
Proper Shipping Name: HYDROCHLORIC ACID
Hazard Class: Class 8, P.G. II
UN Number: UN 1789

EMERGENCY PHONE
Canada: Canutec 613-996-6666
U.S.A.: Chemtrec 800-424-9300

HMIS	
3	Health
0	Flammability
0	Reactivity
C	Personal

A=Goggles, B=Goggles & Gloves
C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
HYDROCHLORIC ACID The above item is reported per 40 CFR 372, Section 313 of Emergency Planning & Community Right-to-know Act of 1986.	7647-01-0	5.0-10.0	5 ppm CEILI	5 ppm CEILI
LD50 (oral rat) 900 mg/kg				
LD50 (dermal) N/A				
LC50 3124 ppm. (RAT, 1HR)				
ALCOHOL ETHOXYLATE	68439-46-3	0.5-1.0	N/A	N/A
LD50 (oral rat) 1376 mg/kg				
LD50 (dermal rabbit) >2 g/kg				

SECTION 3 – PHYSICAL DATA

Color and Odor: Light amber, pungent odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 1.5 @ 4.9% solution.
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.05 @ 20°C
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Conditions of Flammability: None.
Unusual Fire and Explosion Hazards: Prolonged contact with reactive (i.e. mild steel, aluminum, zinc, etc.) may form flammable hydrogen gas in confined areas.
Hazardous Combustion Products: Liberates toxic hydrogen chloride and chloride fumes.
Special Fire Fighting: Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.
Incompatibility (material to avoid): Strong oxidizers, alkalis, amines, bleach, chlorinated products, cyanides, and sulfides.
Hazardous Decomposition Products: Flammable hydrogen gas may be produced in contact with some metals. Liberates toxic hydrogen chloride and chloride fumes.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, inhalation.
Irritation of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure can cause skin damage or dermatitis, respiratory disorder or lung damage.
Effects of Acute Exposure to Product: Product exposure may burn eyes and irritate or burn skin. Inhaling vapors or mists may cause respiratory discomfort such as breathing problems, burning, coughing, etc. Ingestion may cause gastrointestinal and abdominal discomfort.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: If product is misted or sprayed, or used in a confined area, use a NIOSH/MSHA approved dust/mist respirator.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural or butyl rubber, nitrile or neoprene gloves.
Eye Protection: Chemical goggles, safety goggles or face shield.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F) and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of natural waters.
Waste Disposal Method: Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.
Special Shipping Information: Do not place adjacent to chlorine/chlorite containing products. Physically separate the containers. Store at temperatures below 30°C (86°F) and keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 07/04/11
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE