

# Material Safety Data Sheet

Number: **DMN0531**

## Product Name: **Descaler LM**

An inorganic acid cleaner.

Revised: 12/29/11

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### Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Hydrogen chloride	7647-01-0	10%	No

### Section 3 - Hazards Identification

**Emergency Overview:** Liquid is irritating to the skin and corrosive to the eyes. Excessive inhalation of vapors may cause irritation. Product is water based and does not burn. Product has a low pH and more than 2 gallons should not be allowed into sewers (sanitary or storm) without neutralizing. A clear liquid with acidic odor.

**Health Hazards:** Skin Irritant, Eye Corrosive

**Physical Hazards:** Reactive

**Primary Routes of Entry:** X Skin contact; \_\_\_ Skin absorption; X Inhalation; X Ingestion

#### Potential Health Effects:

**Eyes** - causes severe irritation, redness, tearing, blurred vision, and possibly damage.

**Skin** - causes irritation, redness, possibly dermatitis.

**Swallowing** - causes gastrointestinal irritation and burns, nausea, vomiting.

**Breathing** - excessive inhalation of vapors may cause irritation of the mouth, nose, throat and respiratory passages.

### Section 4 - First Aid Measures

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

**Skin Contact:** If there is no redness or irritation wash with soap and water. If there is redness or irritation flush skin with running water for 15 minutes. Remove contaminated clothing and shoes. If irritation persists, get medical attention. Wash clothing before reuse.

**Inhalation:** Move affected person to fresh air. If irritation persists get medical attention.

**Ingestion:** If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Get medical attention immediately.

### Section 5 - Fire-Fighting Measures

**Flash Point:** None (ASTM D-56 closed cup)

**Lower Explosive Limit:** Not Applicable

**Upper Explosive Limit:** Not Applicable

**Extinguishing Media:** Any

**Special Fire Fighting Procedures:** None.

**Unusual Fire And Explosion Hazards:** Contact with reactive metals will form hydrogen gas.

### Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Clean up small spills with a rag or mop. Wash the area with an alkaline detergent or a 50% solution of baking soda. Spills of 2 gallons or less can be washed to the sanitary sewer with plenty of water. Dike larger spills to prevent spreading and then collect into clean pails or drums.

### Section 7 - Handling and Storage

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet and on label. Keep container closed.

If this product contacts bleach or a cleaner containing bleach, it could produce a dangerous gas (chlorine). If your facility uses bleach, or a cleaner containing bleach, look at the MSDS on the bleach product now, to learn what to do if chlorine is accidentally produced. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your emergency preparedness plan. Contact Damon Industries if more information is needed.

### Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Hydrogen chloride (1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA	7647-01-0	10%	-	STEL=15 minute TWA	5 ppm(1,2,3,4) Ceiling=Instantaneous

**Ventilation:** Good room ventilation.

**Respiratory Protection:** None when used as directed.

**Protective Gloves:** Use rubber or latex gloves.

**Eye Protection:** If eye contact is possible, wear safety glasses with side shields.

**Other Protective Equipment:** None when used as directed.

### Section 9 - Physical and Chemical Properties

**Boiling Point:** 220° F.

**Specific Gravity:** 1.09

**Percent Volatiles:** 100%

**Solubility In Water:** Complete

**Appearance and Odor:** Clear liquid with acidic odor.

**Vapor Pressure:** Not Available.

**Vapor Density:** 1.2 (Air = 1).

**Evaporation Rate:** Same as water.

**pH:** concentrate 1.0± 0.5

### Section 10 - Stability and Reactivity

**Incompatibility:** Alkalis, bleach, oxidizers, reactive metals.

**Hazardous Decomposition Products:** None

### Section 11 - Toxicological Information

**Target Organs:** None.

### Section 12 - Ecological Information

Do not dispose of in the environment.

### Section 13 - Disposal Considerations

**Waste Disposal Method:** Up to 2 gallons may be rinsed to the sanitary sewer with a large amount of water.

Larger amounts should be neutralized to within pH limits of your waste water system and then disposed of in the sanitary sewer.

### Section 14 - Transport Information

**D.O.T. Hazard Class:** Hydrochloric Acid, Solution, 8, UN 1789, P.G. II

### Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

**Section 313 Supplier Notification:** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% By Weight</u>	<u>Lbs./Gallon</u>
Hydrogen chloride	7647-01-0	10%	0.88

### Section 16 - Other Information

**NFPA:** H:2 F:0 I:0 **HMIS® III:** H:2 F:0 P:0 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.