

Section 1 - Identification

Product Name: **Descaler LM** An inorganic acid cleaner.

Revised: 6/12/15

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Section 2 - Hazards Identification

Hazard categories: Skin Corrosion/Irritation 1; Eye Corrosion/Irritation 1; Corrosive to metals 1

Hazard statements: Causes severe skin burns and eye damage.
 May be corrosive to metals.

Signal word: Danger

Pictogram: Corrosion

Precautionary statements

Prevention

Do not breath dusts or mists. Wash hands thoroughly after handling.
 Wear protective gloves such as latex and protective clothing such as an apron.
 Wear eye protection such as safety glasses with side shields.
 Keep only in original container.



Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER for medical advice.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
 Absorb spillage to prevent material damage.

Storage: Store in corrosive resistant container with a resistant inner liner. Store locked up.

Disposal: Dispose of contents in accordance with local, regional, national, and international regulations.

Section 3 - Composition / Information on Ingredients

Ingredient	C.A.S. No.	Concentration
Water	7732-18-5	95%
Hydrochloric acid	7647-01-0	5%

The remaining ingredients are not reportable as described in Appendix D to Sec. 1910.1200 Table D.1.

Section 4 - First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, lifting upper and lower eyelids occasionally. Immediately call a POISON CENTER.

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 several 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

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.

Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Concentration	TWA(source)	STEL	Ceiling
Hydrochloric acid	7647-01-0	5%	-	-	5 ppm(1,2,3,4)

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hour Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous
 Ingredients not shown either have no known limits or are below reportable levels in section 3 above.

Ventilation: Good room ventilation.

Respiratory Protection: None when used as directed.

Protective Gloves: Use rubber or latex gloves.

Eye Protection: Wear safety glasses with side shields.

Other Protective Equipment: None when used as directed.

Section 9 - Physical and Chemical Properties

Appearance and Odor: Clear liquid with acidic odor.	
Odor Threshold: Not Available	Vapor Pressure: Not Available
pH: concentrate 1.0± 0.5	Vapor Density: 1.2 (Air = 1).
Melting Point: Not Available	Relative Density (Specific Gravity): 1.09
Freezing Point: Not Available	Solubility(ies): Water: 100%
Boiling Point, Initial: 220° F.	Partition coefficient: Not Available
Boiling Range: Not Available	Auto-ignition Temperature: Not Available
Flash Point: None. (ASTM D-56 closed cup)	Decomposition Temperature: Not Available
Evaporation Rate: ~1 (Water = 1)	Viscosity: Same as water.-
Flammability: (solid, gas): Not Applicable	Volatiles Percent: 99%
Upper Explosive Limit: None	V.O.C.: 0% - 0 grams/liter
Lower Explosive Limit: None	

Section 10 - Stability and Reactivity

Incompatibility: Alkalis, bleach, oxidizers, reactive metals. **Hazardous Decomposition Products:** None

Section 11 - Toxicological Information

Primary Routes of Entry: Skin contact; Skin absorption; Inhalation; 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 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.

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 16 - Other Information

Replaces sheet dated 6/27/12. GHS conversion.

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.