

MATERIAL SAFETY DATA SHEET

INDUSTRIAL CLEANING EQUIPMENT & SUPPLY
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IDENTITY (As listed on label): DESCALE

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components:	OSHA PEL	ACGIG TVL	% RANGE
Hydrogen Chloride	7647-01-0	5 PPM - CELING	99.5%

Dot Hazard Classification: 8 (Corrosive Material)
Sara Hazard: Title III, Section 313

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F°): 108 Specific Gravity (H2O=1.0): 1.16+0.005, Ph: 2.0+0.5
Vapor Pressure (mm Hg): 55 Melting Point:
Vapor Density (air=1): 1.27 Evaporation Rate (Water=1): Same

Solubility in Water: Complete

Appearance and Odor: Clear viscous liquid with acid chemical smell

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None Flammable Limits: N/A LEL: UEL:

Extinguishing Media: None

Special Fire Fighting Procedures: Firefighters should wear a self-contained breathing apparatus with full protective equipment.

Unusual Fire and Explosion Hazards: Acid reacts with most metals to release hydrogen gas which can foam explosive mixtures with air.

SECTION V – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Strong oxidizers and strong alkalis

Hazardous Decomposition or Byproducts: Burning can produce irritating hydrochloric acid fumes.

SECTION VI – HEALTH HAZARD DATA

Acute Effects: Will cause burns of skin and eyes on contact.

Inhalation: Can cause damage to upper respiratory tract and lung tissue

Eyes: Burns of the eyes, Corneal damage likely if contact with eyes is prolonged.

Skin: Burns of the skin

Ingestion: Will cause burns of mucous membranes and internal damage, possibly death

Chronic Effects: Severe eye irritation, severe skin irritation, breathing discomfort

Medical Conditions Generally Aggravated by Exposure: An existing dermatitis

Emergency and First Aid Procedures:

Eyes: Flush with water for at least 15 minutes and call physician

Skin: Wash affected areas with soap and large amounts of water. If irritation persists consult a physician

Ingestion: DO NOT induce vomiting. Dilute by drinking water. Call a physician.

Inhaled: Remove to fresh air. Qualified person may administer oxygen. Call physician

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Flush small spills to drain with excess water. Large spills: Safely stop spill at source, contain spill by diking with soil or other inert material. Mop, pump, or absorb with inert material and put into proper containers for disposal.

Waste Disposal Method: Flush into sewer or dispose of in an approved waste facility according to Federal, State and Local regulations.

Precautions to be taken in handling and storing: HANDLE WITH EXTREME CARE.

WARNING: CORROSIVE LIQUID: Handle all containers carefully. Do not store product in temp. exceeding 111°F. Keep from freezing. Wash thoroughly after handling.

Other Precautions:

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): Provide ventilation. Wear approved respirator

Ventilation: Local exhaust

Protective Gloves: Neoprene, rubber

Eye Protection: Safety glasses/goggles

Other Protective Clothing or Equipment: Do not get on skin. Clothing covering arms and legs, rubber apron.

DATE PREPARED: January 2010

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