

<b>HAZARD RATING</b> 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT	Fire	0	Reactivity
	Health	3	Special
	COR		
		0	

# MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910.1200)

Date Prepared: 4-11-12

## SECTION 1 - PRODUCT IDENTIFICATION

Company Name Multi-Steam	Emergency Telephone No. 203-626-7759
Address Wallingford, Connecticut	Information Telephone No. 203-626-7759
Product Name / ID# Descaler (1179)	Product Type Delimer <input checked="" type="checkbox"/> Proprietary Product

## SECTION 2 - HAZARDOUS INGREDIENTS

Chemical Name/Common Name	Cas No.	Percent (optional)	TLV (Source)
Hydrochloric Acid	7647-01-0	< 20%	C5 ppm (OSHA) as Hydrogen Chloride
Hydroxyacetic Acid	79-14-1	< 10%	3 ppm

\* Substances  Contains no substances - subject to the reporting requirements of SARA 313 and 40 CFR Part 372.

## SECTION 3 - PHYSICAL DATA

Boiling Point (°F) approx. 212°F	Specific Gravity (H <sub>2</sub> O=1.0) 1.0996 ± ± 0.005	pH < 1.0	% VOC (ww) 0%
Solubility in Water	<input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable or (Dispersible) <input type="checkbox"/> Slight (or Partial)		
Evaporation Rate (vs H <sub>2</sub> O)	<input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same	Vapor Pressure NA	Vapor Density NA

Appearance and Odor Clear colorless thin liquid, chlorine odor.

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.)  None to boiling Flammable Limits Upper NA Lower NA

Extinguishing Media NA

Special Fire Fighting Procedures NA

Unusual Fire Explosion Hazards Non-flammable, but hydrochloric acid may form hydrogen gas and cause fire.

## SECTION 5 - REACTIVE DATA

Stability Stable Incompatibility Cyanides, alkalis, common metals

Hazardous Decomposition Products NA

## SECTION 6 - HEALTH HAZARDS

Threshold Limit Value Product See Section 2 for Ingredients TLV  None Established  Not Applicable Primary routes of Exposure  Eyes  Skin  Oral  Inhalation

Signs Symptoms of Over-exposure (Acute) May cause severe irritation or burns to the eyes. Contact with skin may cause severe burns. Inhalation of excessive concentrations of vapor may cause severe irritation of the upper respiratory tract, burning of the throat, and a sensation. Ingestion may cause severe burns of the mucous membranes of the mouth, esophagus, and stomach.

Signs Symptoms of Over-exposure (Chronic) NA

Medical Conditions Aggravated by Over-exposure Unknown

Carcinogen/Suspected Carcinogen Ingredients:  NTP  IARC  OSHA  None

## SECTION 7 - FIRST AID PROCEDURES - (If any Condition persists - Consult a physician.)

Eyes Flush with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin Wash with water for 15 minutes. Remove any contaminated clothing and wash before reuse. Get medical attention if irritation

Ingestion Drink plenty of water to dilute stomach contents. Do NOT induce vomiting. Seek immediate medical attention.

Inhalation Remove to fresh air. If qualified, give oxygen or artificial respiration as needed and/or seek medical help.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection Ventilate to keep air below TLV

Ventilation requirements  Local Exhaust  Mechanical

Protective Gloves Acid resistant rubber gloves Eye Protection Chemical safety goggles

Other Protective Clothing Wear clothing designed to reduce the possibility of skin contact.

## SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled Avoid breathing of vapors or skin contact. Neutralize with soda ash or other mild base.

Vacuum up soak up on inert material and place in suitable container(s) for disposal. Flush residue with plenty of water.

Waste Disposal Methods Check all government regulations. Probable to flush neutralized material to sanitary sewer.

## SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in handling and Storage Store in cool place. Keep out of reach of children. Wash thoroughly after handling.