

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

TRADE NAME (as labeled): ProChem HardenX

Description: Emulsion Hardener

MANUFACTURER'S NAME

Chemical Consultants, Inc.
1850 Wild Turkey Circle
Corona, CA 92880-1799 USA

DATE PREPARED/ REVISED:

October 19, 2006

PREPARER

H.S.D.

PHONE NUMBER:

(951)735-5511

II. COMPONENT SAFETY DATA

Chemical Names	CAS Numbers	%	Exposure Limits in Air (give units)		Other (specify)
			ACGH TLV	OSHA PEL	
Hydrochloric Acid	7647-01-0	1-3	5 ppm (7mg/m3,ceiling)	5 ppm (7mg/m3,ceiling)	
Surfactants	Mixture	< 2	Not Est'd	Not Est'd	

III. PHYSICAL PROPERTIES

Vapor density (air =1):	same as water	Melting point or range, °F	n/a
Specify gravity:	1.03	Boiling point or range, °F	212
Solubility in water:	complete	Evaporation rate (butyl acetate =1):	same as water
Vapor pressure, mmHg at 20 °C:	same as water	pH (1% solution):	1-2
Appearance and odor:	Clear odorless liquid		

IV. FIRE AND EXPLOSION

Flash point, °F (give method):	None		
Auto ignition temperature, °F:	n/a		
Flammable limits in air volume %:	n/a	lower (LEL) n/a	upper (UEL) n/a
Fire extinguishing materials:	water spray <input checked="" type="checkbox"/>	carbon dioxide _____	other _____
	foam _____	dry chemical _____	

Special fire fighting procedures:

Keep personnel removed and upwind of fire. Use water spray to cool containers and control vapors. Neutralize with sodium bicarbonate or soda ash to prevent corrosion of metals and formation of hydrogen. Firefighters should wear full protective gear.

Unusual fire and explosion hazards:

Most foams will react with the material and possible release corrosive/toxic gases. If evaporated to dryness, the solid residue may pose a slight to minimal fire hazard.

V. REACTIVITY DATA

Stability: Stable Unstable _____

Conditions to avoid:

Keep away from heat, flames and sparks. Do not store or mix with incompatible materials.

Incompatibility (materials to avoid):

Most metals, hydroxides, amines, alkalis, cyanides, sulfides, strong oxidizers, carbonates, hypochlorites and formaldehyde.

Hazardous decomposition products (including combustion products):

Heat can cause evolution of gaseous hydrogen chloride.

Hazardous polymerization: May occur _____ Will not occur

Conditions to avoid:

VI. HEALTH HAZARD INFORMATION**SYMPTOMS OF OVEREXPOSURE for each potential route of exposure.**

Inhaled: Inhalation of vapors or mists may cause respiratory irritation. May cause chemical burns to the respiratory tract.

Skin: This product may cause irritation or burns to the skin. / Eye Contact: Low concentrations of mists or vapors can be irritating, causing redness. Concentrated mists, vapors or splashed liquid can cause severe irritation, burns and possible permanent damage.

Swallowed: Ingestion may produce burns to the lips, mouth, upper airway, esophagus, and stomach.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: Explain in lay terms.

Acute: Causes strong irritation and burns on skin and mucous membranes.

Chronic: Can cause teeth erosion. Prolonged skin contact can cause dermatitis.

FIRST AID EMERGENCY PROCEDURES:

Eye contact: Immediately flush eyes with fresh water for at least 15 minutes. If irritation persists, seek medical aid.

Skin contact: Immediately wash skin with soap and water. Remove all contaminated clothing.

Inhaled: Immediately remove affected person to fresh air. If breathing is difficult, give oxygen. Seek medical aid.

Swallowed: Do not induce vomiting. Give large quantities of water only if victim is conscious. Seek medical aid.

CARCINOGENICITY? YES: _____ **NO:**

This product's ingredients are found in this list. Federal OSHA _____ **NTP** _____ **IARC** _____ **ACGIH** _____

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Dermatitis, respiratory conditions.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Small spills should be wiped. Large spills should be contained and recovered for use or disposal. Spillage should be neutralized and treated as waste fluid. Persons should wear appropriate protective equipment (respiratory, eyes, and skin).

Disposal Methods: May be supplied to a biological treatment plant. Follow all relevant regulations for disposal.

NOTE: Dispose of all wastes in accordance with federal, state, and local regulations.

VIII. SPECIAL HANDLING PROCEDURES

Respiratory protection (type): None required under normal use conditions. In situations where vapor concentrations exceed the exposure limits, a NIOSH approved air-purifying respirator with acid gas cartridge(s) in combination with a high-efficiency particulate filter is recommended.

Ventilation and engineering controls: General ventilation recommended to maintain below exposure limits..

Eye protection (type): Safety glasses.

Gloves (specify material): Rubber gloves

Other clothing and equipment: Adequate protective clothing to prevent skin contact.

Work practices, hygienic practices: Avoid breathing vapors or mists. Wash thoroughly with soap and water after handling.

Other handling and storage requirements: Keep product in original container. Do not store or mix with incompatible materials. Store in a cool, dry well ventilated area away from heat and sunlight.

IX. REPORTING REQUIREMENTS & ADDITIONAL INFORMATION

HMIS Code System Rating = Health 2; Flammability 0; Reactivity 0.

NFPA 704 Code System Rating = Health 2; Flammability 0; Reactivity 0.

Volatile Organic Compound (VOC) = None

This Product contains a chemical which may be subject to the reporting requirements of SARA Title Section 313.