

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

TRADE NAME (as labeled): Adhesive Hardener (Liquid)

Description: Adhesive Hardener (Liquid)

DATE PREPARED/ REVISED:

October 29, 2004

MANUFACTURER'S NAME

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

PREPARER

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II. COMPONENT SAFETY DATA

Chemical Names	CAS Numbers	%	Exposure Limits in Air (give units)		Other (specify)
			ACGH TLV	OSHA PEL	
Acetone	67-64-1	90-98%	750ppm	1000 ppm	
Proprietary Product		<10%	Not Est'd	Not Est'd	

III. PHYSICAL PROPERTIES

Vapor density (air =1): >1
Specify gravity: 0.8, water=1
Solubility in water: Miscible
Vapor pressure, mmHg at 20 °C: 24.7 kpa
Appearance and odor: Clear thin liquid, sweet odor.

Melting point or range, °F
Boiling point or range, °F 133° F
Evaporation rate (butyl acetate =1): 5.6(nBuAc=1)
pH (1% solution): N/A

IV. FIRE AND EXPLOSION

Flash point, °F (give method): 0° F
Auto ignition temperature, °F: 1,004.° F
Flammable limits in air volume %: lower (LEL) 2.1% upper (UEL) 13%
Fire extinguishing materials: water spray foam carbon dioxide dry chemical other _____

Special fire fighting procedures:
Respiratory equipment should be worn to prevent inhalation of vapors.

Unusual fire and explosion hazards:

Handle as a flammable liquid. Vapors from empty containers and manufacturing operations form an explosive mixture in air which can be ignited by many sources, eg. pilot lights, motors, switches and others.

V. REACTIVITY DATA

Stability: Stable Unstable _____

Conditions to avoid:

Incompatibility (materials to avoid):

Strong oxidizing agents.

Hazardous decomposition products (including combustion products):

None expected under normal use conditions.

Hazardous polymerization: May occur _____ Will not occur

Conditions to avoid:

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

Inhaled: Dizziness, breathing difficulty, headaches, and nausea.

Skin: Dry skin, cracks irritation and dermatitis. Eyes: severe irritation, tearing, redness, blurred vision.

Swallowed: May cause gastrointestinal irritation, vomiting, nausea and diarrhea. May cause lung damage if swallowed.

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

Acute: Dizziness, breathing difficulty, headaches, and nausea.

Chronic:

FIRST AID EMERGENCY PROCEDURES:

Eye contact: Flush for 15 minutes with water.

Skin contact: Wash thoroughly with soap and warm water.

Inhaled: Move person to fresh air. If breathing slows, start artificial respiration and get medical attention.

Swallowed: Do not induce vomiting. Contact physician.

CARCINOGENICITY? YES: _____ NO:

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

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing medical conditions. Skin and respiratory system.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Observe precautions in all sections.

Eliminate all sources of ignition. Collect spilled material and cleanup residue using non-sparking tools and/ or explosion proof equipment.

Disposal Methods: Meeting applicable requirements for destruction removal is preferred.

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

VIII. SPECIAL HANDLING PROCEDURES

Respiratory protection (type): Approved fresh air supplying respirator in areas where the vapor rises above TLV's

Ventilation and engineering controls: An explosion proof mechanical exhaust system is suggested.

Eye protection (type): Chemical goggles, safety glasses, or faceshields for eye protection.

Gloves (specify material): Nitrile gloves

Other clothing and equipment: Use impermeable aprons and protective clothing to prevent skin contact.

Work practices, hygienic practices: Always wash hands after handling.

Other handling and storage requirements: Keep container closed when not in use. Keep out of reach of children. For industrial or professional use only.

IX. REPORTING REQUIREMENTS & ADDITIONAL INFORMATION

HMIS Code System Rating = Health 1; Flammability 3; Reactivity 0.

Volatile Organic Compound (VOC) = NA