

# MATERIAL SAFETY DATA SHEET

## I. GENERAL INFORMATION

**TRADE NAME (as labeled):** CHEM CON ADHESIVE HARDENER

Description: Adhesive Hardener (AEROSOL)

**DATE PREPARED / REVISED:**

November 18, 1999

**MANUFACTURER'S NAME:**

Chemical Consultants, Inc.  
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**TELEPHONE NUMBER:**

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## II. COMPONENT SAFETY DATA

CHEMICAL NAMES	CAS Numbers	% RANGE	Exposure Limits in Air (give units)	
			ACGH TLV	OSHA PEL
Acetone	67-64-1	> 75 %	500 ppm	750 ppm
Propane	74-98-6	16 %	1000 ppm	1000 ppm
Butane	106-97-8	8 %	800 ppm	800 ppm

## III. PHYSICAL PROPERTIES

<b>Specific Gravity at 77 degree F:</b>	.793	<b>Boiling Point:</b>	(acetone) 133.0 F (56.1 C)
<b>Vapor Pressure:</b>	185 mmHg	<b>pH:</b>	not applicable
<b>Specific Vapor Density:</b>	> 1.00 @ AIR=1	<b>Percent Volatiles:</b>	100
<b>Appearance and odor:</b>	Liquid, homogeneous solution	<b>Evaporation Rate:</b>	Slower than Ethyl Ether
<b>Liquid Density:</b>	8.600 lbs./gal. @ 77.0 F		

## IV. FIRE AND EXPLOSION

<b>Flash Point / Method:</b>	< -25 F / TCC
<b>Auto ignition Temperature:</b>	No data
<b>Explosive Limit:</b>	Lower 2.6% Upper 12.8%
<b>Hazardous Products of Combustion:</b>	May form: Carbon dioxide and carbon monoxide, various hydrocarbons.
<b>Appropriate Extinguishers:</b>	Use foam, dry chemical and carbon dioxide.
<b>Special fire fighting procedures:</b>	Full protective equipment including self-contained breathing apparatus to avoid inhalation of vapors should be used. Water spray should not be used except to keep down vapors or cool closed containers to prevent build-up of pressure. If water is used, fog nozzles are preferred.
<b>Fire and explosion hazards:</b>	Contents under pressure. Do not use or store near sources of heat, sparks or open flame. Keep away from any source of heat such as sunlight, heaters or stoves that could cause the container to burst. Do not puncture or incinerate. Do not crush or place in a garbage compactor. Do not store above 120 degree F. Aerosol containers may explode when exposed to extreme heat. Product vapors are heavier than air and may travel a long distance to a source of ignition and flashback.

## V. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spills:** Remove all sources of ignition. Avoid heat, sparks, flames, and anything which could cause fire. Ventilate area of spill and adjacent low-lying areas. Avoid breathing solvent vapors. Remove with inert absorbent materials and non-sparking tools.

**Disposal:** Place in closed containers.

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

**Adhesive Hardener(Aerosol) Page 2****VI. HEALTH HAZARD INFORMATION**

- Inhalation:** Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Maintain concentration below recommended exposure limits.
- Skin Contact:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.
- Eye Contact:** Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.
- Swallowing:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts maybe harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.
- Symptoms of Exposure:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, high blood sugar, coma.
- Primary Route(s) of Entry:** Inhalation, skin absorption, skin contact, eye contact, ingestion.

**FIRST AID PROCEDURES**

- Inhalation:** If symptoms develop, move the individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
- Eye:** If symptoms develop, flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.
- Skin:** Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.
- Swallowing:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**SUSPECTED CANCER AGENT?**

NO:  This product's ingredients are not found on the list below.  
 YES:  Federal OSHA  NTP  IARC

**VII. REACTIVITY DATA**

- Stability:** Stable
- Incompatibility:** Avoid contact with: acids, strong oxidizing agents.
- Hazardous decomposition:** May form: carbon dioxide and carbon monoxide, various hydrocarbons.
- Hazardous polymerization:** Product will not undergo hazardous polymerization.

**VIII. SPECIAL HANDLING PROCEDURES**

- Respiratory Protections:** If workplace exposure limits are exceeded for any component(see section 2 for hazardous components and exposure limits), a NIOSH/OSHA approved respirator suitable for components listed is recommended.
- Ventilation:** Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGIH's TLV limit.
- Eye Protection:** Chemical splash goggles with side shields or face shield are recommended if contact with eyes is likely.
- Skin Protection:** Chemical resistant plastic or rubber gloves are recommended for prolonged or repeated contact. Appropriate impervious clothing is recommended if prolonged or repeated contact is likely.
- Hygienic Practices:** Wash hands before eating or smoking. Smoke in designated areas only.

**IX. REPORTING REQUIREMENT & ADDITIONAL INFORMATION**

NFPA 704 Code System =Health 2; Flammability 4; Reactivity 0.