

# MATERIAL SAFETY DATA SHEET

## I. GENERAL INFORMATION

TRADE NAME (as labeled): GR-13  
Description: General Purpose Solvent

DATE PREPARED/ REVISED:

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### MANUFACTURER'S NAME

Chemical Consultants, Inc.  
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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	
2-Butoxyethanol	111-76-2	<10	25 ppm (skin)	25 ppm (skin)	
Diacetone Alcohol	123-42-2	<10	50 ppm	50 ppm	
Aromatic Petroleum Distillate	64742-94-5	>10	100 ppm	100 ppm	
Esters	Mixture	<10	Not Est'd	Not Est'd	
Detergents	Mixture	<10	Not Est'd	Not Est'd	

## III. PHYSICAL PROPERTIES

Vapor density (air =1): >1  
Specify gravity: 0.898  
Solubility in water: Partial  
Vapor pressure, mmHg at 20 °C: 12.7(calc)  
Appearance and odor: Clear, mobile liquid with strong aromatic odor.

Melting point or range, °F: Unknown  
Boiling point or range, °F: 225  
Evaporation rate (butyl acetate =1): <1  
pH (1% solution): 7.15

## IV. FIRE AND EXPLOSION

Flash point, °F (give method): 118(TCC)  
Auto ignition temperature, °F: Unknown  
Flammable limits in air volume %: lower (LEL) Unknown upper (UEL) Unknown  
Fire extinguishing materials: water spray  foam  carbon dioxide  dry chemical  other \_\_\_\_\_

### Special fire fighting procedures:

Caution. Combustible. Do NOT enter confined fire space without full bunker gear, including a positive pressure NIOSH approve self-contained breathing apparatus. Cool fire exposed containers with water.

### Unusual fire and explosion hazards:

Containers exposed to intense heat should be cooled with water to prevent vapor pressure build up, which could result in container rupture.

## V. REACTIVITY DATA

Stability: Stable  Unstable \_\_\_\_\_

### Conditions to avoid:

Keep away from heat, flame and sparks.

### Incompatibility (materials to avoid):

Strong oxidizing agents, and alkalis

### Hazardous decomposition products (including combustion products):

CO, CO<sub>2</sub>, and unidentified organic compounds.

Hazardous polymerization: May occur \_\_\_\_\_ Will not occur

### Conditions to avoid:

None known.

## VI. HEALTH HAZARD INFORMATION

### SYMPTOMS OF OVEREXPOSURE for each potential route of exposure.

**Inhaled:** Mist may cause irritation of mucous membranes, nose eyes, and throat.

**Skin:** May cause irritation or dermatitis in some individuals upon prolonged contact.

**Swallowed:** May cause irritation of mouth and throat. Nausea and possible vomiting.

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

**Acute:** Skin irritation, defatting of natural oils to dermal area. Vapors can cause nausea and headaches.

**Chronic:** Vapors can be absorbed in toxic amounts with continued over exposure.

### FIRST AID EMERGENCY PROCEDURES:

**Eye contact:** Flush immediately with fresh water for at least 15 minutes. Contact a physician if irritation persists.

**Skin contact:** Remove contaminated clothing. Wash with soap and water. If irritation occurs, seek medical aid.

**Inhaled:** Remove victim to fresh air. Provide oxygen breathing is difficult. Seek medical aid.

**Swallowed:** Do not induce vomiting. Drink large quantities of milk or water. 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:** Pre-existing skin conditions. Pre-existing respiratory conditions.

## VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spill response procedures (include employee protection measures):** Absorb small spills onto suitable absorbent. Contain large spills by diking. Eliminate sources of ignition.

**Disposal Methods:** RCRA Class: Regulated. EPA Hazardous substance reportable quantity: 100,000 lbs or more per year. This product is slowly biodegradable but should not be disposed of in municipal sewer systems.

**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

**Ventilation and engineering controls:** Local exhaust to maintain below PEL

**Eye protection (type):** Safety glasses.

**Gloves (specify material):** Nitrile or neoprene gloves to prevent direct skin contact.

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

**Work practices, hygienic practices:** Wash thoroughly after handling

**Other handling and storage requirements:** Store away from ignition sources, and in a cool, dry area  
Combustible, keep soiled rags in a proper container.

## IX. REPORTING REQUIREMENTS & ADDITIONAL INFORMATION

HMIS Code System Rating = Health 1; Flammability 2; Reactivity 0.

NFPA 704 Code System Rating = Health 1; Flammability 2; Reactivity 0;

VOC (Volatile Organic Compound) = 728gms/liter or 6.07 lbs./gal

Contains no chlorinated hydrocarbons.

This product contains materials which are required to be reported under SARA Title III, Section 313

This product contains no Proposition 65 designated chemicals.

Non-Photochemically reactive.