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Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section 1 - Product Identification

Ethyl alcohol denatured with acetone and methyl isobutyl ketone.

### Section II - Composition/Information on Components

| Ingredients            | CAS#     | OSHA Pel       | ACGIH TLV     | Other Limits  | %    |
|------------------------|----------|----------------|---------------|---------------|------|
| ethyl alcohol          | 64-17-5  | 1000 ppm       | 1000 ppm      |               | 64%  |
| acetone                | 67-64-1  | 1000 ppm (TWA) | 750 ppm (TWA) |               | 5.9% |
| methyl isobutyl ketone | 108-10-1 | 100 ppm (TWA)  | 50 ppm (TWA)  | 75 ppm (STEL) | 1%   |

### Section III - Hazards Identification

*Overview:* Toxic by inhalation absorption or ingestion. Can not be made nontoxic. Causes CNS depression, headache, intoxication, dilation of the pupils, convulsions nausea, and dizziness. Unconsciousness and death may result.

#### Safety Ratings

*Health:* Hazardous    *Flammability:* Flammable    *Reactivity:* Slight    *Contact:* Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: Room Temperature away from sources of ignition.

#### NFPA Ratings

Health = 2    Flammability = 4    Reactivity = 0



#### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other aliphatic alcohols.

*Inhalation:* Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

*Ingestion:* Inhalation will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

*Skin contact:* Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking.

*Eye contact:* May be irritating

*Chronic Exposure:* Unknown

*Aggravation of preexisting conditions:* Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated.

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#### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise administer 2 glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

*Skin Contact:* In case of irritation, remove contaminated clothing and wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* In case of eye contact, flush with water and get medical attention if irritation continues.

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#### Section V - Fire Fighting Measures

*Flash point:* 4°C (40°F) TCC

*Flammable Limits (for ethanol):* LEL 3% UEL 19%

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Alcohol type foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

*Special information:* Pyrolysis will release toxic oxides such as carbon monoxide.

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#### Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

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#### Section VII - Handling and Storage

Store in a closed container, away from open flames or other sources of ignition.

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#### Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section II

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

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#### Section IX - Physical and Chemical Properties

*Boiling Point:* 133°C

*Vapor pressure (mm Hg):* 52 @ 20°C

*Vapor Density (air = 1):* 2

*Appearance and Odor:* A clear colorless liquid with the characteristic odor of alcohol and ketone.

*Density:* 0.80 g/ml

*Evaporation Rate (Ethanol = 1):* 1

*Solubility:* Infinitely miscible with water

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#### Section X - Stability and Reactivity

*Stability:* Freezes at very low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Oxidizers.

*Conditions to avoid:* heat, flame and sources of ignition.

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**Section XI - Toxicological Information**

Chronic consumption of ethanol is believed to be linked to liver disease, cancer and birth defects.

Cancer lists

| Ingredient             | Known Carcinogenicity? | NTP? | Anticipated? | IARC Category |
|------------------------|------------------------|------|--------------|---------------|
| Ethanol                | no                     | no   | no           | none          |
| Acetone                | no                     | no   | no           | none          |
| Methyl Isobutyl Ketone | no                     | no   | no           | none          |

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**Section XII - Ecological Information**

*Environmental Fate:* Biodegradable

*Environmental Toxicity:* None expected

Ethanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for ethanol in the atmosphere is one to ten days.

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**Section XIII Disposal**

The preferred disposal method is incineration. Many localities restrict the amount of alcohol that may be flushed down the drain. Insure compliance with all government regulations.

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**Section XIV Transportation information**

DOT Shipping name: Ethyl alcohol solution

Hazard Class: 3 Packaging Group II

DOT Hazard Label: Flammable liquid

DOT Identification Number: UN1170

Bottles smaller than 32 Fl. Oz. are eligible to be shipped under ORM-D or limited quantity exemptions [49 CFR section 173.150(b)(2) and 173.150(C)].

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**Section XV - Regulatory Information****Chemical Inventory Status**

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| Ingredient             | TSCA | EC  |
|------------------------|------|-----|
| Ethanol                | Yes  | Yes |
| Acetone                | Yes  | Yes |
| Methyl Isobutyl Ketone | Yes  | Yes |

**Federal, State and International Regulations**

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| Ingredient             | SARA 302 |     | SARA 313 |          | RCRA   | TSCA |
|------------------------|----------|-----|----------|----------|--------|------|
|                        | RQ       | TPQ | List     | Category | 261.33 | 8(D) |
| isopropanol            | No       | No  | Yes      | No       | No     | No   |
| Acetone                | No       | No  | Yes      | No       | U002   | No   |
| Methyl Isobutyl Ketone | No       | No  | Yes      | No       | U161   | No   |

Chemical Weapons Convention: No TSCA 12(b): Yes CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes, Fire: Yes

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**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Prepared by: P. B. Revision Date: Feb. 21, 2006