Medical Chemical Corp.
19430 Van Ness Ave.
Torrance, CA 90501
Customer Service: Phone (310)787-6800
FAX (310)787-4464
CHEMTREC Emergency Response Telephone Number: (800)424-9300
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 I - Product Identification
A mixture of acetone, ethyl alcohol, isopropanol and methanol

Section II - Hazards Identification
Danger: Highly flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires. Store in a cool, well ventilated place. Dispose of contents and container in accord with all applicable regulations.

Safety Ratings
Health: Moderate  Flammability: Severe  Reactivity: None  Contact: Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves
Storage: Keep cool, away from sources of ignition in a well ventilated area.
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. Methanol has shown genetic toxicity in some animals.

Section III - Composition/Information on Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>750 ppm</td>
<td>1000 ppm</td>
<td></td>
<td>75%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>1000 ppm (TWA)</td>
<td>1000 ppm (TWA)</td>
<td></td>
<td>22.5%</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>400 ppm (TWA)</td>
<td>400 ppm (STEL)</td>
<td></td>
<td>1.25%</td>
</tr>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>200 ppm (TWA)</td>
<td>200 ppm (TWA)</td>
<td></td>
<td>1.25%</td>
</tr>
</tbody>
</table>
Section IV - First Aid Measures

_Inhalation:_ Remove from source of exposure and get medical attention for any breathing difficulty.

_Ingestion:_ Do not induce vomiting. Aspiration of acetone into the lungs may produce death. Get immediate medical attention even if symptoms improve.

_Skin Contact:_ In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

_Eye Contact:_ In case of eye contact, flush with water for at least 15 minutes and get medical attention.

Section V - Fire Fighting Measures

_Flash point:_ -20 °C (-4 °F) TCC

_Flammable Limits (for ethanol):_ LEL 3%  UEL 19%

_Fire:_ Water is ineffective against alcohol fires but may be used to cool adjacent containers.

_Fire Extinguishing Media:_ Alcohol foam, carbon dioxide or dry chemical.

_Special information:_ Pyrolysis will release toxic carbon monoxide.

Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent and dispose.

Section VII - Handling and Storage

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

Section VIII - Exposure Control/Personal Protection

_Airborne Exposure Limits:_ See section III.

_Ventilation System:_ Local exhaust such as explosion proof chemical fume hoods are recommended. 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 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.

Section IX - Physical and Chemical Properties

- **Boiling point:** 56 °C
- **Density:** 0.80 g/ml
- **Vapor pressure (mm Hg):** 184 @ 20 °C
- **Evaporation Rate (n-butyl alcohol = 1):** 11.6
- **Vapor density (air = 1):** 2
- **Solubility:** Infinitely miscible with water
- **Appearance and odor:** A clear colorless liquid with the characteristic odor of alcohol and acetone.

Section X - Stability and Reactivity

_Stability:_ Stable.

_Hazardous Decomposition Products:_ Nothing unusual.

_Hazardous polymerization:_ Will not occur.

_Incompatibilities:_ Oxidizers.

_Conditions to avoid:_ heat, flame and sources of ignition.

Section XI - Toxicological Information

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>Ethanol</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>Methanol</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>none</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>3</td>
</tr>
</tbody>
</table>

### Section XII - Ecological Information

**Environmental Fate:** Biodegradable  
**Environmental Toxicity:** None expected  
Acetone and alcohols 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.

### Section XIII - Disposal Considerations

Incineration at a licensed chemical disposal facility is the preferred disposal method. Local governments may restrict the amounts of flammable liquids that may be flushed down the drain. Dispose of contents and container in accord with all applicable regulations.

### Section XIV - Transportation Information

**DOT/IATA Shipping name:** Acetone  
**Hazard Class:** 3  
**Packing Group:** II  
**Hazard Label:** Flammable Liquid  
**Identification Number:** UN 1090  
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), 173.150(C) and IATA Y341].

### Section XV - Regulatory Information

**Chemical Inventory Status**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Acetone</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Methanol</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Federal, State and International Regulations**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302 RQ</th>
<th>SARA 313 TPQ</th>
<th>SARA 313 List</th>
<th>SARA 313 Category</th>
<th>RCRA 261.33</th>
<th>TSCA 8(D)</th>
<th>Ca. Prop 65</th>
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</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>No</td>
<td>No</td>
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<td>No</td>
<td>U002</td>
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<td>No</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Isopropanol</td>
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<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Methanol</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>U154</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Chemical Weapons Convention: No  
TSCA 12(b): No  
CDTA: Yes  
SARA 311/312: Acute: Yes  
Chronic: No  
Fire: Yes  
Pressure: No  
Reactivity: No

### Section XVI - Other Information

This information is believed to be correct but is not waranteed as such, nor does it purport to be all inclusive.  
Revision Date: Nov. 2, 2017

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