



Medical chemical Corp.  
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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

Isopropanol. Synonyms are 2-propanol and isopropyl alcohol.

### Section II - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	%
isopropanol	67-63-0	400 ppm TWA	400 ppm STEL		70% v/v
FD&C Blue #1	3844-45-9	not applicable	not applicable		0.00007% w/v

### Section III - Hazards Identification

Overview: Flammable liquid. May be harmful if swallowed. Irritating to skin eyes and respiratory tract.

#### Safety Ratings

Health: Slight      Flammability: Severe      Reactivity: None      Contact: Slight

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

Storage: General storage

#### NFPA Ratings

Health = 1      Flammability = 4      Reactivity = 0



#### Potential Health Effects

The toxicology of isopropanol has not been completely examined. It is presumed that the toxicity of this item is similar to other aliphatic alcohols. FD&C blue is relatively nontoxic.

*Inhalation:* May be irritating. Exposure to high concentrations can cause unconsciousness and death. Widespread and prolonged exposure may result in absorption of harmful amounts, particularly in infants

*Ingestion:* Ingestion may cause drowsiness and loss of consciousness. Stomach cramps, pain, vomiting and diarrhea may also occur.

*Skin contact:* Concentrations above the TLV may cause local redness, dryness and cracking of the skin.

*Eye contact:* Irritating to eyes. Prolonged contact may produce corneal burns.

*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.

### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure, assist breathing and get medical attention.

*Ingestion:* Never give anything by mouth to an unconscious person. Administer large quantities of fluids and get medical help.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* 22°C (72°F) TCC

*Flammable Limits:* LEL 2% UEL 13%

*Explosion:* Not normally an explosion hazard.

*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

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal. The preferred disposal method is incineration. Many localities restrict the amount of isopropanol that may be flushed down the drain. Insure compliance with all government regulations.

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## Section VII - Handling and Storage

Store in a closed container, away from sources of ignition at controlled room temperature.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section II

*Ventilation System:* Local exhaust, such as chemical fume hoods, are recommended to control vapors. 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 recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 180°F (82°C)

*Vapor pressure (mm Hg):* 33 @ 20°C

*Vapor Density (air = 1):* 2.1

*VOC:* 330 g/l

*Appearance and Odor:* A clear, blue liquid with the characteristic odor of isopropanol.

*Density:* 0.845 g/ml @ 20°C

*Evaporation Rate (n-butyl alcohol = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Stable.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Strong oxidizers.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

oral rat LD<sub>50</sub> = 5.05 g/kg for pure isopropanol

inhalation rat LD<sub>LO</sub> = 1200 ppm/8 hours for pure isopropanol

Cancer lists

<i>Ingredient</i>	<i>Known Carcinogenicity?</i>	<i>NTP?</i>	<i>Anticipated?</i>	<i>IARC Category</i>
isopropanol	no	no	no	3

**Section XII - Ecological Information**

Environmental Fate: Biodegradable  
 Environmental Toxicity: Not expected to be toxic to fish.

**Section XIII - Disposal**

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

**Section XIV - Transportation information**

*DOT Shipping name:* Isopropanol  
*DOT Hazard Class:* 3  
*Packaging Group:* II  
*Hazard Label:* Flammable Liquid  
*DOT Identification Number:* UN 1219

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)].

**Section XV - Regulatory Information**

**Chemical Inventory Status**

Ingredient	TSCA	EC
isopropanol	Yes	Yes

**Federal, State and International Regulations**

Ingredient	SARA 302		SARA 313		Cercla	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	List	Category			
isopropanol	No	No	Yes	No	No	No	No
Chemical Weapons Convention: No			TSCA 12(b): No		CDTA: Yes		
SARA 311/312: Acute: Yes			Chronic: Yes		Fire: Yes		

**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.

Prepared by: P. B.                      Revision Date: Jan. 25, 2006