MSDS for isopropanol
Catalog # 104B

Medical chemical Corp.
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Torrance, CA 90501

Customer Service: Phone (310)787-6800
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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 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		100% v/v

Section III - Hazards Identification

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

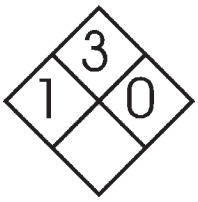
Safety Ratings

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 = 3 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: 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.

Section V - Fire Fighting Measures

Flash point: 12°C (53°F) TCC

Flammable Limits: LEL 2% UEL 13%

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.

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.

Section VII - Handling and Storage

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

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.

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
Density: 0.786 g/ml
Evaporation Rate (n-butyl alcohol = 1): 1
Solubility: Infinitely miscible with water
Appearance and Odor: A clear, colorless liquid with the characteristic odor of isopropanol.

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.

Section XI - Toxicological Information

oral rat LD_{50} = 5.05 g/kg
inhalation rat LD_{LO} = 1200 ppm/8 hours

Cancer lists

Ingredient	*Known Carcinogenicity?*	*NTP?*	*Anticipated?*	*IARC Category*
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

	SARA 302		SARA 313			RCRA	TSCA
Ingredient	RQ	TPQ	List	Category	CERCLA	261.33	8(D)
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: Oct. 28, 2005