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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 I - Product Identification

Isopropanol. Synonyms are 2-propanol and isopropyl alcohol.

Section II - Hazards Identification

Danger: Extremely 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.

Safety Ratings

Health: Slight Flammability: Severely flammable liquid and vapor 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 = 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 III - 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 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: 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.

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 well ventilated place. 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 III.

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

VOC: 330 g/l

Density: 0.845 g/ml @ 20 °C

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

Solubility: Infinitely miscible with water

Appearance and Odor: A clear, blue 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 LD₅₀ = 5.05 g/kg for pure isopropanol

inhalation rat LD_{LO} = 1200 ppm/8 hours for pure isopropanol

Cancer lists

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

Section XII - Ecological Information

Environmental Fate: Biodegradable

Environmental Toxicity: Not expected to be toxic to fish.

Section XIII - Disposal Considerations

Incineration at a licensed chemical disposal facility is the preferred disposal method. Local governments often restrict the amounts of alcohols and other 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 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), 173.150(C) and IATA Y341].

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

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Isopropanol	Yes	Yes

Federal, State and International Regulations

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>Cercla</u>	<u>RCRA 261.33</u>	<u>TSCA 8(D)</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>				
Isopropanol	No	No	Yes	No	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 warranted as such, nor does it purport to be all inclusive.

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