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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 I - Product Identification

Isopropanol. Synonyms are 2-propanol and isopropyl alcohol.

Section II - Hazards Identification

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

Safety Ratings

Health: Slight *Flammability:* Extremely 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 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 aggravate.

Section III - Composition/Information on Components

Ingredients	CAS#	OSHA PeI	ACGIH TLV	Other Limits	%
Isopropanol	67-63-0	400 ppm TWA	400 ppm STEL		70.1% v/v
Deionized water	7732-18-5	Not applicable	Not applicable		32.6% v/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.

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 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

Volatile Organic Compounds: 550 g/l

Appearance and Odor: A clear, colorless 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

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

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), 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</u>	<u>TSCA</u>	<u>Ca. Prop. 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>		<u>261.33</u>	<u>8(D)</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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