


## Section 1: Identification

<b>Common Name/Trade Name</b>	ISOPROPYL ALCOHOL 70% USP	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	Isopropanol; Isopropyl Alcohol; 2-Propanol; sec-propyl alcohol; dimethylcarbinol; sec-propanol; Rubbing alcohol; 1-70%; propan-2-olMethylethanol; IPA	
<b>Relevant Use(s) of Product</b>	Laboratory Chemical	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Eye irritation (Category 2A), Flammable Liquids (Category 2), Specific target organ toxicity - single exposure (Category 3)	
<b>Signal Word</b>	Danger	
<b>Hazard Statement(s)</b>	H225 H319 H336	Highly flammable liquid and vapour Causes serious eye irritation May cause drowsiness or dizziness
<b>Pictogram(s)</b>		
<b>Precautionary Statement(s)</b>	P102 P210 P233 P240 P241 P242 P243 P261 P264 P271 P280 P303+P361+P353 P304+P340 P305+P351+P338 P312 P337+P313 P370+P378 P403+P233 P403+P235 P405 P501	Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/light/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists Get medical advice/attention. In case of fire Use for extinction. Store in a well ventilated place. Keep container tightly closed. Store in a well ventilated place. Keep cool. Store locked up. Dispose of contents/container to an approved waste disposal plant.
<b>Hazards Not Otherwise Classified</b>	No data available	
<b>Ingredient(s) with Unknown Toxicity</b>	No data available	

## Section 3: Composition/Information on Ingredients

Chemical Name	sopropanol; Isopropyl Alcohol; 2-Propanol; sec-propyl alcohol; dimethylcarbinol; sec-propanol; Rubbing alcohol; 1-70%; propan-2-olMethylethanol; IPA		
Common Name	Isopropyl Alcohol 70%		
CAS Number	67-63-0		
Material		Percent	CAS
Isopropyl Alcohol		0.63	67-63-0
Water		0.37	7732-18-5
Impurities and/or Stabilizing Additives	No data available		

## Section 4: First Aid Measures

<b>General Advice</b>	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous.
<b>If Inhaled</b>	Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.
<b>In Case of Skin Contact</b>	Immediately flush affected area with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. Contact a doctor. If irritation persists, get medical attention.
<b>In Case of Eye Contact</b>	Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.
<b>If Swallowed</b>	DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.
<b>Most Important Symptoms and Effects</b>	No data available

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	SMALL FIRE: Use dry chemicals, CO2, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam. Cool all affected containers with flooding quantities of water.
<b>Special Hazards Arising From the Substance/Mixture</b>	May explode when heated. Closed containers may rupture and explode during runaway polymerization. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. May produce a floating fire hazard. Static ignition hazard can result from handling and use. Vapors may travel to source of ignition and flash back. Vapors may settle in low or confined spaces.
<b>Special PPE and/or Precautions for Firefighters</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
<b>Methods and Materials Used for Containment</b>	Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.
<b>Cleanup Procedures</b>	Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed. Stop leak/contain spill if possible and safe to do so. Prevent product from entering drains.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent buildup of electrostatic charge. Open and handle container with care. Metal containers involved in the transfer of this material should be grounded and bonded.
<b>Conditions for Safe Storage</b>	Keep container tightly closed in a dry and well-ventilated location. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	Component: Isopropyl Alcohol Source: US (ACGIH) Type: TWA Value: 200 ppm Component: Isopropyl Alcohol Source: US (ACGIH) Type: STEL Value: 400 ppm Component: Isopropyl Alcohol Source: US (OSHA) Type: TWA Value: 400 ppm Component: Isopropyl Alcohol Source: US (OSHA) Type: STEL Value: 500 ppm
<b>Appropriate Engineering Controls</b>	General room or local exhaust ventilation is usually required to meet exposure limits. Electrical equipment should be grounded and conform to applicable electrical code. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>PPE - Eye/Face Protection</b>	Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN 166 (EU). Maintain eye wash fountain and quick-drench facilities in work area.
<b>PPE - Skin Protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>PPE - Body Protection</b>	Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>PPE - Respiratory Protection</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Form: Liquid. Colour: Colorless, clear.
<b>Upper/Lower Flammability or Explosive Limits</b>	2% (V) / 12.7% (V)
<b>Odor</b>	No data available
<b>Vapor Pressure</b>	43.2 hPa (32.4 mmHg) at 20.0 °C (68.0 °F)
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	2.1
<b>pH</b>	No data available
<b>Relative Density</b>	No data available
<b>Melting Point/Freezing Point</b>	No data available
<b>Solubility</b>	Solubility Soluble
<b>Initial Boiling Point and Boiling Range</b>	83 °C (181°F)
<b>Flash Point</b>	18.3 °C (64.9 °F) - Closed Cup
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	Flammable
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	399 °C (750°F)
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Avoid exposure to air any longer than necessary so as to prevent peroxide formation. Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	Vapors may form explosive mixture with air.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Extreme temperatures and direct sunlight.
<b>Incompatible Materials</b>	Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products formed under fire conditions- Carbon oxides

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 Oral Rat 4396 mg/kg LD50 Oral Mouse 3,600 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 Rat 19,000 ppm 8 hours
<b>Acute Toxicity - Dermal</b>	LD50 Rabbit 12,870 mg/kg
<b>Acute Toxicity - Eye</b>	Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant 800 ppm.
<b>Skin Corrosion/Irritation</b>	Slightly irritating to the skin. Repeated contact with neat product may dry skin causing cracking and/or fissuring.
<b>Serious Eye Damage/Irritation</b>	Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm.
<b>Respiratory or Skin Sensitization</b>	May cause respiratory tract irritation upon inhalation.
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.
<b>Carcinogenicity ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>Carcinogenicity NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>Carcinogenicity OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity - Single Exposure</b>	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Causes upper respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	Prolonged exposure can be irritating to mucosal membranes, skin, respiratory system. Can cause liver and kidney damage.
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	Acute Fish Toxicity (ISOPROPANOL) LC50 / 96 hours Pimephales promelas: 9,640 mg/L Toxicity to Aquatic Plants EC50 / 72 hours Scenedesmus subspicatus > 1,000 mg/L Toxicity to Microorganisms EC50 / 3 hours Activated sludge > 1,000 mg/L
<b>Persistence and Degradability</b>	Readily biodegradable (77% degraded in 10 days). Expected to be hydrolytically stable, but rapidly degraded following atmospheric releases.
<b>Bio-accumulative Potential</b>	Bioconcentration factor (BCF) of 3.16 (Predicted bioconcentration factor). Significant bioaccumulation is not expected based on predicted BCF of 3.16.
<b>Mobility in Soil</b>	No data available
<b>Other Adverse Effects</b>	No data available

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert care in igniting as this materials is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
<b>Waste Treatment Methods Packaging</b>	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	1219
<b>UN Proper Shipping Name</b>	Isopropanol
<b>Transport Hazard Class(es)</b>	3
<b>Packaging Group</b>	II
<b>Environmental Hazards</b>	Marine Pollutant: No

## Section 15: Regulatory Information

OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant. SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: The following components are subject to the reporting levels established by SARA Title III, Section 313. ISOPROPYL alcohol CAS-No. 67-63-0 Revision Date: 1987/01/01. SARA 311/312 Hazards: Acute Health Hazard. Chronic Health Hazard. Fire Hazard. CERCLA: No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA. Massachusetts Right To Know Components: Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987/01/01. Pennsylvania Right To Know Components: Isopropyl Alcohol CAS-No. 67-63-0 Revision Date: 1987/01/01. Water CAS-No. 7732-18-5. New Jersey Right To Know Components: Isopropyl Alcohol: CAS-No. 67-63-0 Revision Date 1987/01/01. Water CAS-No. 7732-18-5. California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Scarlotte Smith
<b>Revision Date</b>	01/30/2019 12:42

### Disclaimer

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