


Section 1: Identification

Common Name/Trade Name	ISOPROPYL ALCOHOL 99% USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Isopropanol; Isopropyl Alcohol; 2-Propanol; sec-propyl alcohol; dimethylcarbinol; Rubbing alcohol; IPA 99%	
Relevant Use(s) of Product	Laboratory Chemical	

Section 2: Hazards Identification

Classification of Substance or Mixture	Eye irritation (Category 2), Flammable liquids (Category 2), Specific target organ toxicity - single exposure (Category 3)	
Signal Word	Danger	
Hazard Statement(s)	H225 H319 H336	Highly flammable liquid and vapour Causes serious eye irritation May cause drowsiness or dizziness
Pictogram(s)		
Precautionary Statement(s)	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.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Isopropanol; Isopropyl Alcohol; 2-Propanol; sec-propyl alcohol; dimethylcarbinol; Rubbing alcohol; IPA 99%
Common Name	Isopropyl Alcohol 99% (minimum)
CAS Number	67-63-0
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	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.
If Inhaled	Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.
In Case of Skin Contact	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.
In Case of Eye Contact	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.
If Swallowed	NEVER give anything by mouth to an unconscious person. If vomit does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Immediately have victim drink several glasses of water to dilute. Seek medical attention.
Most Important Symptoms and Effects	No data available

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards Arising From the Substance/Mixture	Carbon oxides expected to be the primary hazardous combustion product. Vapors may travel to source of ignition and flash back.
Special PPE and/or Precautions for Firefighters	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

Personal Precautions, Protective Equipment and Emergency Procedures	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.
Methods and Materials Used for Containment	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.
Cleanup Procedures	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

Precautions for Safe Handling	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.
Conditions for Safe Storage	Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are open must be carefully resealed and kept upright to prevent leakage.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Component: Isopropyl Alcohol: Source: US (OSHA) Type: TWA Value: 400 ppm Component: Isopropyl Alcohol: Source: US (ACGIH) Type: TWA Value: 200 ppm Component: Isopropyl Alcohol: Source: US (ACGIH) Type: STEL Value: 400 ppm
Appropriate Engineering Controls	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.
PPE - Eye/Face Protection	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.
PPE - Skin Protection	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.
PPE - Body Protection	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 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.
PPE - Respiratory Protection	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 air 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

Appearance	Form: Liquid Colour: Colorless
Upper/Lower Flammability or Explosive Limits	12.7% (V) / 2.0% (V)
Odor	No data available
Vapor Pressure	4.4 kPa at 20 °C (68 °F)
Odor Threshold	No data available
Vapor Density	1.05 where air = 1 at 20 °C (68 °F)
pH	No data available
Relative Density	0.858 g/cm ³ at 25 °C (77 °F)
Melting Point/Freezing Point	No data available
Solubility	Solubility - Miscible
Initial Boiling Point and Boiling Range	83 °C (181 °F)
Flash Point	12 °C (53 °F) - Closed Cup
Evaporation Rate	No data available
Flammability (Solid, Gas)	Flammable
Partition Coefficient	log Pow: 0.05
Auto-Ignition Temperature	399 °C (750 °F)
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Vapors may form explosive mixture with air.
Conditions to Avoid	Heat, flames and sparks. Extreme temperatures and direct sunlight.
Incompatible Materials	Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids.
Hazardous Decomposition Products	Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral Rat 5045 mg/kg Behavioral abnormalities observed such as altered sleep time and decreased activity.
Acute Toxicity - Inhalation	LC50 Inhalation Rat 16,000 mg/kg 8 hours.
Acute Toxicity - Dermal	LD50 Dermal Rabbit 12,800 mg/kg
Acute Toxicity - Eye	Rabbit Irritating to eyes- 24 hours Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm.
Skin Corrosion/Irritation	Rabbit-mild skin irritation.
Serious Eye Damage/Irritation	Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm.
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	Group 3: Not classifiable as to its carcinogenicity to humans.
Carcinogenicity ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
Carcinogenicity NTP	No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.
Carcinogenicity OSHA	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.
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	Inhalation: May cause drowsiness or dizziness - Central Nervous System.
Specific Target Organ Toxicity - Repeated Exposure	Prolonged exposure can be irritating to mucous membranes, skin, respiratory system. Can cause liver and kidney damage.
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Acute Fish Toxicity LC50 / 96 hours Pimephales promelas: 9,640 mg/L Toxic to Daphnia and Other Aquatic Invertebrates EC50 / 24 h / Water Flea - 5,102 mg/L Toxicity to Aquatic Plants EC50 / 72 hours Desmodismus subspicatus > 2,000 mg/L Toxicity to Daphnia and other aquatic invertebrates Immobilization EC50 / 24h / Water flea - 6,851 mg/L
Persistence and Degradability	No data available
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	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.
Waste Treatment Methods Packaging	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.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	1219
UN Proper Shipping Name	Isopropanol
Transport Hazard Class(es)	3
Packaging Group	II
Environmental Hazards	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. New Jersey Right To Know Components: Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987/01/01. California Prop. 65 Components: This product does not contain any chemicals know to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

Additional Information	
Prepared By	Lisa Russell
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Disclaimer

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