

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) NSW Poisons Information Centre: 131 126 (24 hours)
Distributor Name	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: bellacorp@bellacorp.com.au	
Product Synonym(s)	Dimethyl carbinol, IPA, 2-Propanol, Isopropanol	
Relevant Use(s) of Product	Laboratory Chemical	

Section 2: Hazards Identification

Classification of Substance or Mixture	Flammable liquids (Category 2), Serious eye damage/eye irritation (Category 2A), Specific target organ toxicity - single exposure (Category 3) narcotic effects	
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 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 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	Dimethyl carbinol
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 off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
If Inhaled	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
In Case of Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
In Case of Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
If Swallowed	Rinse mouth. Get medical attention if symptoms occur.
Most Important Symptoms and Effects	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO ₂). Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
Special Hazards Arising From the Substance/Mixture	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Highly flammable liquid and vapor.
Special PPE and/or Precautions for Firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and Materials Used for Containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid discharge into drains, water courses or onto the ground.
Cleanup Procedures	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Section 7: Handling and Storage

Precautions for Safe Handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapours. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for Safe Storage	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS).

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	US. ACGIH Threshold Limit Values: Isopropyl alcohol (CAS 67-63-0): Type STEL Value 400 ppm. Type TWA Value 200 ppm. Biological limit values - ACGIH Biological Exposure Indices: Value 40 mg/l, Determinant - Acetone, Specimen - Urine.
Appropriate Engineering Controls	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
PPE - Eye/Face Protection	Wear safety glasses with side shields (or goggles).
PPE - Skin Protection	Wear appropriate chemical-resistant gloves. Neoprene, butyl rubber, nitrile or Viton® gloves are recommended. Other suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
PPE - Body Protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Thermal hazards Wear appropriate thermal protective clothing, when necessary.
PPE - Respiratory Protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator with organic vapor cartridge and full facepiece.

Section 9: Physical and Chemical Properties

Appearance	Form: Liquid Color: Colorless
Upper/Lower Flammability or Explosive Limits	12.7% v/v / 2.0% v/v
Odor	Alcohol-like
Vapor Pressure	43.2 hPa (20°C (68°F))
Odor Threshold	Not available
Vapor Density	2.1
pH	Not available
Relative Density	0.785 g/cm ³ at 25°C (77°F)
Melting Point/Freezing Point	-89.5°C (-129.1°F)
Solubility	Solubility (water): Complete.
Initial Boiling Point and Boiling Range	83°C (181°F)
Flash Point	12°C (53°F)
Evaporation Rate	3
Flammability (Solid, Gas)	Flammable
Partition Coefficient	(n-octanol/water): 0.05
Auto-Ignition Temperature	399°C (750.2°F)
Decomposition Temperature	Not available
Viscosity	Not available

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible Materials	Acids. Strong oxidizing agents. Chlorine. Isocyanates.
Hazardous Decomposition Products	No hazardous decomposition products are known.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Rat 4710 mg/kg
Acute Toxicity - Inhalation	LC50 Rat 72.6 mg/l, 4 Hours
Acute Toxicity - Dermal	LD50 Rabbit 12870 mg/kg
Acute Toxicity - Eye	Causes serious eye irritation.
Skin Corrosion/Irritation	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Irritation	Causes serious eye irritation.
Respiratory or Skin Sensitization	Not a respiratory sensitizer. This product is not expected to cause skin sensitization.
Germ Cell Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity IARC	No data available.
Carcinogenicity ACGIH	Not classifiable as a human carcinogen.
Carcinogenicity NTP	No data available
Carcinogenicity OSHA	No data available
Reproductive Toxicity	This product is not expected to cause reproductive or developmental effects.
Specific Target Organ Toxicity - Single Exposure	May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure	Not classified.
Aspiration Hazard	Not an aspiration hazard.

Section 12: Ecological Information

Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Acute Crustacea LC50 Daphnia magna > 10000 mg/l, 24 hours Fish LC50 Pimephales promelas 9640 mg/l, 96 hours Chronic Crustacea EC50 Daphnia magna > 100 mg/l, 21 days NOEC Daphnia magna 141 mg/l, 16 days 30 mg/l, 21 days
Persistence and Degradability	Expected to be readily biodegradable.
Bio-accumulative Potential	Partition coefficient n-octanol / water (log Kow) 0.05
Mobility in Soil	Expected to be highly mobile in soil.
Other Adverse Effects	None known.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal instructions. Local disposal regulations: Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste Treatment Methods Packaging	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from residues / unused products Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal
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	N/A

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR. Canadian regulations Controlled Drugs and Substances Act Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed. Precursor Control Regulations Not regulated. International regulations Stockholm Convention Not applicable. Rotterdam Convention Not applicable. Kyoto Protocol Not applicable. Montreal Protocol Not applicable. Basel Convention Not applicable. International Inventories Country(s) or region Inventory name On inventory (yes/no)* Australia Australian Inventory of Industrial Chemicals (AICIS) Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No Country(s) or region Inventory name On inventory (yes/no)* China Inventory of Existing Chemical Substances in China (IECSC) Yes Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List(ECL) Yes New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS) Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16: Other Information

Additional Information	N/A
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