



102-2440 Canoe Ave
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www.xenexlabs.com

SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Catalog Name:	ISOPROPYL ALCOHOL 70% USP
Commercial Names:	Not Available
Synonyms:	2-Propyl alcohol; 1-Methylethanol; Secondary Propyl Alcohol; Propan-2-ol; IPA
Chemical Name:	2-propanol
Chemical Formula:	Not Available
Cas #:	67-63-0
RTECS:	Not Available
TSCA:	Not Available
Emergency Contact:	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 13126 National Chemical Emergency Centre 44(0)1235239670

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:	Flammable Liquid (Category 2) Acute Toxicity - Inhalation (Category 5) Specific Target Organ Toxicity - Single Exposure (Category 3) - CNS
Signal Word:	Danger
Hazard and Precautionary Statements:	Highly flammable liquid and vapor. Vapour/air mixtures are explosive. Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. May be harmful if swallowed or inhaled. Keep away from heat, sparks, open flames and No smoking Keep container tightly closed Ground/Bond container and receiving equipment Use explosion-proof equipment Use non-sparking tools Take action to prevent static discharges Wear protective gloves, protective clothing, eye and face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fume, gas, mist, vapors and spray. Use only outdoors or in a well-ventilated area.
Pictograms:	

HMIS Health Hazard:	2
HMIS Fire Hazard:	3
HMIS Reactivity:	1
HMIS Personal Protection:	E

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS #	% by Weight
ISOPROPYL ALCOHOL	67-63-0	70% v/v

SECTION 4: FIRST AID MEASURES

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact:	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.
Eye Contact:	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.
Ingestion:	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Small fire: dry chemical, CO ₂ or water spray. Large fire: dry chemical, CO ₂ , alcohol resistant foam or water spray
Unsuitable Extinguishing Media:	Do not get water inside containers.
Hazardous Combustion Products:	Under fire conditions, hazardous fumes will be present.
Specific Hazards:	Vapour/air mixtures are explosive.
Specific Methods:	Not Available
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions:	Do not flush into sewerage system or to drains.
Methods and materials for containment and clean up:	On land, sweep or shovel into suitable containers. Minimize generation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area.

SECTION 7: HANDLING AND STORAGE



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Precautions for safe handling:

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

Conditions for safe storage:

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³. A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

Engineering Controls:

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

Personal Protection:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.

Other Notes:

The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure far above the OEL may result in unconsciousness. Mild irritation of the upper respiratory tract may begin at approximately 400 ppm. High concentrations may cause drowsiness, lack of coordination and deep narcosis. Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days. Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva. OEL: MAK: 200 ppm, 500 mg/m³ Peak limitation category: II(2); Pregnancy risk group: C; (DFG 2004).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

1:	DESCRIPTION Transparent, colorless, mobile, volatile liquid, having a characteristic odor.
2:	AUTO-IGNITION TEMPERATURE 456°C, 852.8°F
3:	log P (OCTANOL-WATER) 0.05 (25°C)
4:	EVAPORATION RATE 2.3 (butyl acetate=1)
5:	RELATIVE DENSITY 0.79 (WATER = 1)
6:	SPECIFIC GRAVITY 0.872 - 0.883 (20°C)
7:	VAPOR PRESSURE 4.4 kPa (20°C)
8:	FLASH POINT (18.2 - 24)°C, (64.76-75.2)°F (Closed Cup)
9:	pH 6.0 - 8.0
10:	MELTING/FREEZING POINT -90°C, -130°F

SECTION 10: STABILITY AND REACTIVITY

Possibility of hazardous reactions:

HAZARDOUS POLYMERIZATION Will not occur

Chemical Stability:

Stable under recommended storage conditions

Conditions to Avoid:

Moisture, sunlight and extreme temperatures. Heat. Sources of ignition.

Incompatible Materials:

Strong oxidants. Strong acids. Aluminium if > 50°C. Most plastics. Neoprene rubber.

Hazardous Decomposition Products:

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of entry:

Oral, dermal, inhalation, eye contact

Potential Acute Health Effects:

Inhalation- May be harmful if inhaled. Causes respiratory tract irritation. Cough. Dizziness. Drowsiness. Headache. Sore throat. Mild irritation of the upper respiratory tract may begin at approximately 400 ppm. High concentrations may cause drowsiness, lack of coordination and deep narcosis. Ingestion- May be harmful if swallowed. Abdominal pain. Laboured breathing. Nausea. Unconsciousness. Vomiting. Death. Skin- May be harmful if absorbed through skin. Causes skin irritation. Application of isopropyl alcohol to the skin may cause dryness and irritation; suitable precautions should be taken to prevent absorption through the skin, particularly in infants. Eyes- Severe eye irritant. Vapours can irritate eyes beginning at approximately 400 ppm. Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days. Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva.

Potential Chronic Health Effects:

Isopropyl alcohol is considered to be more toxic than ethyl alcohol and the symptoms of intoxication appear to be similar, except that isopropyl alcohol has no initial euphoric action and gastritis, haemorrhage, pain, nausea, and vomiting are more prominent. The lethal oral dose is reported to be about 120 to 240 mL in adults; however, toxic symptoms may be produced by as little as 20 mL. Ketoacidosis and ketonuria commonly occur due to the presence of the major metabolite, acetone, in the circulation. Possible direct toxic effects on the brain, thiamine deficiency, Wernicke-Korsakoff syndrome; pancreatitis, cardiovascular disease, tremor, agitation, feelings of dread, nausea, vomiting, sweating, hallucinations, seizures, delirium tremens, fetal alcohol syndrome. The substance is irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system, resulting in depression. Exposure far above the OEL may result in unconsciousness.

Other Toxic Effects on Humans:

Not Available

Carcinogenic Effects:

OSHA, NTP - ISOPROPYL ALCOHOL (Alcohol 99%) is not listed. IARC -ISOPROPYL ALCOHOL (Alcohol 99%) is listed in group 3 (not classifiable as to its carcinogenicity to humans). California Proposition 65-This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Mutagenic Effects:

Not Available



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Teratogenic Effects and Developmental Toxicity:	Causes foetotoxicity in animals at doses which are maternally toxic. Does not impair fertility. Based on available data, the classification criteria are not met.
Acute Toxicity:	ISOPROPYL ALCOHOL (pure): Oral: Rat: LD50: (mg/kg): 4396 Dermal: Rabbit LD50: (mg/kg): 12 800 Inhalation: Rat: LC50: (mg/L/4hr): 72.6 Calculated ATE: Oral: Rat: LD50: (mg/kg): 6793 Dermal: Rabbit LD50: (mg/kg): 19 781 Inhalation: Rat: LC50: (mg/L/4hr): 112

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	ISOPROPYL ALCOHOL (pure): EC50: 48 Hr: Crustacea: (mg/L): 13 299 LC50: 96 Hr: Fish: (mg/L): 61 200 IC50: 72 Hr: Algae: (mg/L): > 1000 Calculated: EC50: 48 Hr: Crustacea: (mg/L): 94 576 LC50: 96 Hr: Fish: (mg/L): 20 552 IC50: 72 Hr: Algae: (mg/L): 1545
Persistence and Degradability:	Readily biodegradable meeting the 10 day window criterion.
Bioaccumulative Potential:	Not likely to bioaccumulate: LogPow: 0.05 (25°C)
Mobility in Soil:	Will likely be mobile in the environment due to its water solubility and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air. ISOPROPYL ALCOHOL: Water Solubility: 1.00E+06 mg/L (25°C) Henry's Law Constant: 8.10E-06 atm·m ³ /mole (25°C)

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:	Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.
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SECTION 14: TRANSPORTATION INFORMATION

DOT:	UN PROPER SHIPPING NAME ISOPROPYL ALCOHOL UN NUMBER 1219 CLASS 3 PACKING GROUP II
TDG:	Not Available
IATA:	Not Available

SECTION 15: REGULATORY INFORMATION

Federal and State Regulations:	Chemical Name & CAS: ISOPROPYL ALCOHOL CAS #: 67-63-0; CERCLA 40 CFR Part 302.4 – Not Listed, SARA (Title III) 40 CFR Part 372.65- Listed, EPA 40 CFR Part 355 Appendix A & Appendix B Right-to-know: - Not Listed. Pennsylvania, New Jersey and Massachusetts - Listed, California Prop 65 – Not Listed.
Other Regulations:	Not Available

SECTION 16: OTHER INFORMATION

Preparation Date:	1/20/2025
Prepared By:	Tammy McDonald
Disclaimer:	All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Xenex Laboratories assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Xenex Laboratories assumes no responsibility for the completeness or accuracy of the information contained herein.