



MATERIAL SAFETY DATA SHEET

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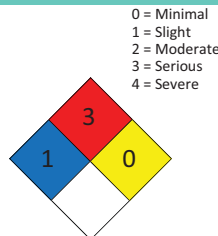
Section 1 Chemical Product and Company Name		
Product	MONOCOT CROSS SECTION	ITEM No: 61-2EA
Synonyms	70% Isopropyl Alcohol.	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Isopropanol	67-63-0	70%	TWA: 200ppm STEL: 400ppm
Water	7732-18-5	30%	Not established

Section 3		Hazards Identification									
WARNING! FLAMMABLE! HARMFULL IF SWALLOWED. CAUSES EYE IRRITATION. Can burn with an invisible flame. Irritating to eyes, May cause skin irritation. Target organs: liver, kidneys, CNS depressant		0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe	<table><tr><td>Health</td><td>1*</td></tr><tr><td>Flammability</td><td>3</td></tr><tr><td>Physical Hazard</td><td>0</td></tr><tr><td>Personal Protection</td><td>C</td></tr></table>	Health	1*	Flammability	3	Physical Hazard	0	Personal Protection	C
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HMIS											

Section 4 First Aid Measures	
INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Get immediate medical attention. INHALATION: Remove to fresh air. Get medical attention if necessary. EYE CONTACT: Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops. SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention if irritation develops.	

Section 5 Fire Fighting Measures	
Flammable liquid.	
Extinguishing Media: Use TriClass, dry chemical extinguisher, Carbon dioxide, Alcohol resistant foam, Water spray. Firefighters should use self-contained breathing apparatus and protective clothing.	
Flash point: 18.3-24°C/64.9-75°F Autoignition temperature: 399 °C/750.2°F (Isopropyl alcohol) Explosion limits: Lower: 2.0% Upper: 12.7.0%	



Section 6 Accidental Release Measures	
Restrict unprotected personnel from the area. Contain the spill with an inert absorbent material and deposit in a sealed bag or container. For small spill use paper towel. Place the wet medium under the hood or outside the building to minimize a vapor concentration in the area. Do not leave it unattended. Dry material place in trash. Ventilate and wash spill area with soap and water.	

Section 7 Handling and Storage	
Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Handling: Use hood or with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor. Wash hands thoroughly after handling. Storage: Flammable cabinet. Keep container tightly closed in cool, well-ventilated area.	

Section 8 Exposure Controls/ Personal Protection	
Engineering controls: Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Respiratory protection: Non should be needed if normal laboratory handling at room temperature. Use self-contained breathing apparatus in high vapor concentrations.	

Section 9 Physical and Chemical Properties	
Physical state: Liquid Appearance: Transparent, Colorless, Clear. Odor: Slight Ethanol/Acetone-like pH: Not available Vapor Pressure (mm Hg): 4.4 kPa Vapor Density: 2.1 Evaporation Rate: 2.9 Viscosity: Not available	Boiling point: Not available Melting point: Not available Freezing point: -29°C/-20°F Decomposition temp: Not available Solubility: Soluble in water and alcohols. Specific gravity (H₂O = 1): Not available Percent volatile (%): 100 Wt% Molecular formula: Mixture Molecular weight: Mixture

Section 10 Stability and Reactivity	
Chemical Stability: Stable Conditions to Avoid: High temperatures, sparks open flames and incompatible materials. Incompatibilities: Strong oxidizing agents, acids, peroxides, acid chlorides, acid anhydrides, alkali metals, ammonia. Hazardous decomposition: N/A Hazardous polymerization: Will not occur.	

Section 11 Toxicological Information	
Effects of overexposure: Material is irritating to eyes and mucous membrane. Toxic due to inhalation or ingestion. Ingested doses might produce nausea, dizziness and headache. Aspiration hazard if swallowed. Aspiration into lungs can cause chemical pneumonitis. Ingestion may affect the cardiovascular system manifested by change in heart rate, hypotension, cardiac arrhythmias and respiratory depression.	

ORAL LD₅₀Isopropyl alcohol: 5045mg/kg[Rat]. 3600mg/kg [Mouse]. 6410 mg/kg [Rabbit]
DERMAL LD₅₀Isopropyl alcohol: 12800 mg/kg 4h [Rabbit].

Section 12 Ecological Information	
Data not available.	

Section 13 Disposal Considerations	
Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.	

Section 14 Transport Information	
UN number: 1219 Shipping name: Isopropanol solution Hazard Class: 3 Packing group: PG II Exceptions: Lty Qty ≤1L	

Section 15 Regulatory Information	
EINECS-listed (200-661-7) isopropyl alcohol, (231-791-2) water.	

Section 16 Other Information	
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