



# MATERIAL SAFETY DATA SHEET

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| Chemical Product and Company Name |                                               |     |                          |
|-----------------------------------|-----------------------------------------------|-----|--------------------------|
| Section 1                         | MONOCOT CROSS SECTION                         |     |                          |
| Product                           |                                               |     | 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                                                                |                                                                                                                                                                                      |        |    |              |   |                 |   |                     |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|--------------|---|-----------------|---|---------------------|---|
| <p><b>WARNING! FLAMMABLE!</b><br/><b>HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION.</b><br/>Can burn with an invisible flame. Irritating to eyes. May cause skin irritation.<br/><b>Target organs:</b> liver, kidneys, CNS depressant</p> |                                                                                       |                                                                                                                                                                                      |        |    |              |   |                 |   |                     |   |
|                                                                                                                                                                                                                                         | <div>0 = Minimal<br/>1 = Slight<br/>2 = Moderate<br/>3 = Serious<br/>4 = Severe</div> | <table><tr><th>Health</th><th>1*</th></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 |
| Health                                                                                                                                                                                                                                  | 1*                                                                                    |                                                                                                                                                                                      |        |    |              |   |                 |   |                     |   |
| Flammability                                                                                                                                                                                                                            | 3                                                                                     |                                                                                                                                                                                      |        |    |              |   |                 |   |                     |   |
| Physical Hazard                                                                                                                                                                                                                         | 0                                                                                     |                                                                                                                                                                                      |        |    |              |   |                 |   |                     |   |
| Personal Protection                                                                                                                                                                                                                     | C                                                                                     |                                                                                                                                                                                      |        |    |              |   |                 |   |                     |   |
| HMIS                                                                                                                                                                                                                                    |                                                                                       |                                                                                                                                                                                      |        |    |              |   |                 |   |                     |   |

| Section 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | First Aid Measures |
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| <b>INGESTION:</b> 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.<br><b>INHALATION:</b> Remove to fresh air. Get medical attention if necessary.<br><b>EYE CONTACT:</b> 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.<br><b>SKIN CONTACT:</b> Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention if irritation develops. |                    |

| Section 5                                                                                                                                                                                                     | Fire Fighting Measures |
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| Flammable liquid.                                                                                                                                                                                             |                        |
| <b>Extinguishing Media:</b> Use TriClass, dry chemical extinguisher, Carbon dioxide, Alcohol resistant foam, Water spray. Firefighters should use self-contained breathing apparatus and protective clothing. |                        |
| <b>Flash point:</b> 18.3-24°C/64.9-75°F<br><b>Autoignition temperature:</b> 399 °C/750.2°F (Isopropyl alcohol)<br><b>Explosion limits: Lower:</b> 2.0%<br><b>Upper:</b> 12.7.0%                               |                        |
| <div>0 = Minimal<br/>1 = Slight<br/>2 = Moderate<br/>3 = Serious<br/>4 = Severe</div> <div><div>3</div><div>1</div><div>0</div></div>                                                                         |                        |

| Section 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Accidental Release Measures |
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| 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.<br><b>Handling:</b> Use hood or with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor. Wash hands thoroughly after handling.<br><b>Storage:</b> Flammable cabinet. Keep container tightly closed in cool, well-ventilated area. |                             |

| Section 8                                                                                                                                                                                                                                                                                                                                                                                                              | Exposure Controls/ Personal Protection |
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| <b>Engineering controls:</b> 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.<br><b>Respiratory protection:</b> 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 |
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| <b>Physical state:</b> Liquid<br><b>Appearance:</b> Transparent, Colorless, Clear,<br><b>Odor:</b> Slight Ethanol/Acetone-like<br><b>pH:</b> Not available<br><b>Vapor Pressure ( mm Hg):</b> 4.4 kPa<br><b>Vapor Density:</b> 2.1<br><b>Evaporation Rate:</b> 2.9<br><b>Viscosity:</b> Not available                                                                                             |                                  |
| <b>Boiling point:</b> Not available<br><b>Melting point:</b> Not available<br><b>Freezing point:</b> -29°C/-20°F<br><b>Decomposition temp:</b> Not available<br><b>Solubility:</b> Soluble in water and alcohols.<br><b>Specific gravity (H<sub>2</sub>O = 1):</b> Not available<br><b>Percent volatile (%):</b> 100 Wt%<br><b>Molecular formula:</b> Mixture<br><b>Molecular weight:</b> Mixture |                                  |

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

| Section 11                                                                                                                                                                                                                                                                                                                                                                                                                   | Toxicological Information |
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| <b>Effects of overexposure:</b> 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 LD<sub>50</sub>(Isopropyl alcohol): 5045mg/kg[Rat]. 3600mg/kg [Mouse]. 6410 mg/kg [Rabbit]  
DERMAL LD<sub>50</sub>(Isopropyl 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   |
| <b>UN number:</b> 1219<br><b>Shipping name:</b> Isopropanol solution<br><b>Hazard Class:</b> 3<br><b>Packing group:</b> PG II<br><b>Exceptions:</b> 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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