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MATERIAL SAFETY DATA SHEET

MSDS No: 0240.005.00
Revision Date: March 15, 2012
Approved by: Darius Nicpon

Section 1 Chemical Product and Company Name

Product	ROOT TIPS	ITEM No: CASE-B018
Synonyms	70% Isopropyl Alcohol solution.	
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!
HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION.
Can burn with an invisible flame. Irritating to eyes. May cause skin irritation.
Target organs: liver, kidneys, CNS depressant

Health	1*
Flammability	3
Physical Hazard	0
Personal Protection	C

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. Do NOT induce vomiting unless directed to do so by medical personnel. 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.

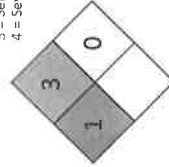
Section 5 Fire Fighting Measures

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%

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe



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: 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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