

MATERIAL SAFETY DATA SHEET

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 Approved by: Darius Nitapon

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Section 1 Chemical Product and Company Name

Product	ETHANOL	ITEM No: 39S-B01
Synonyms	Ethyl alcohol denatured with methanol, Isopropyl , Methyl Isobutyl Ketone	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information

Chemical Name	CAS#	%	TLV Units	
			TWA: 1000ppm	STEL: 1500ppm
Denaturants				
Isopropanol	67-63-0	12.8%	TWA: 400ppm	STEL: 500ppm
Methanol	67-56-1	4.12%	TWA: 200ppm	STEL: 250ppm
Methyl isobutyl ketone	108-10-1	0.87%	TWA: 205ppm	STEL: 300ppm

Section 3 Hazards Identification

DANGER!	0 = Minimal	Health	2
FLAMMABLE: HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED HARMFUL IF ABSORBED THROUGH SKIN. CAUSES EYE IRRITATION. Target organs: liver, kidneys, CNS depressant	1 = Slight	Flammability	3
	2 = Moderate	Personal Hazard	0
	3 = Serious	Physical Protection	C
	4 = Severe		

HMIS

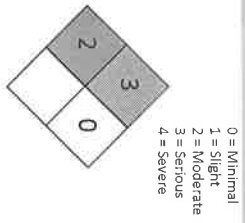
Section 4 First Aid Measures

INGESTION: Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Induce vomiting by medical or experienced first-aid Get medical attention immediately.
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 or water. spray for small fires. Water spray to cool fire-exposed containers and structures. Firefighters should use self-contained breathing apparatus and protective clothing.

Flash point: 58°F
Autoignition temperature: 683°F
Explosion limits: Lower: 3.3% **Upper:** 19.0%



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. Vapor forms from this product and may travel, or be moved by air currents and ignited by pilot lights, static discharges, flames, sparks, heaters or other ignition sources. Hazardous if used for work with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor. Wash hands thoroughly after handling. **Storage:** Flammable cabinet. Keep container 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 NIOSH approved respiratory protection in high vapor concentrations.

Section 9 Physical and Chemical Properties

Physical state: Liquid
Appearance: Transparent, Colorless, Clear,
 Odor: Strong alcohol odor. Fragrant
 pH: N/A
Vapor Pressure (mm Hg): 42
Vapor Density: 1.6
Evaporation Rate: 3.1
 Viscosity: N/A

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: Toxic due to inhalation or ingestion. Ingested doses will produce nausea, dizziness and headache. Material is irritating to eyes and mucous membrane.
ORAL LD₅₀: Ethanol: 7060mg/kg [Rat], 3450mg/kg [Mouse]
VAPOR LC₅₀: Ethanol: 20000ppm 8h [Rat], 39000 mg/m³ 4h [Mouse]
ORAL LD₅₀: Isopropanol: 5045mg/kg [Rat], 3600mg/kg [Mouse], 6410 mg/kg [Rabbit]
DERMAL LD₅₀: Isopropanol: 12800 mg/kg 4h [Rabbit].
ORAL LD₅₀: Methyl alcohol: 5628mg/kg [Rat],
VAPOR LC₅₀: Methyl alcohol: 64000ppm 4h [Rat],
DERMAL LD₅₀: Methyl alcohol: 15800mg/kg [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: 1987
NA: N/A
Shipping name: ALCOHOLS, NOS
Hazard Class: 3
Packing Group: PG II
 Exceptions: LTY Qty ≤11

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (200-578-6)

Section 16 Other Information

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