



MATERIAL SAFETY DATA SHEET

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Section 1 Chemical Product and Company Name		
Product	DILUTE DENATURED ALCOHOL	ITEM No: 33-1EA
Synonyms	Denatured alcohol based pH Indicator	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	30%	None established
Ethanol (denatured)	64-17-5	70%	TWA: 1000ppm
*Denaturants			
Isopropanol	67-63-0		TWA: 400ppm STEL: 500ppm
Methanol	67-56-1		TWA: 200ppm STEL: 250ppm
Methyl isobutyl ketone	108-10-1		TWA: 205ppm STEL: 300ppm

Section 3 Hazards Identification									
DANGER! FLAMMABLE: HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED HARMFUL IF ABSORBED THROUGH SKIN. CAUSES EYE IRRITATION. Target organs: liver, kidneys, CNS depressant									
	<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	
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. 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 in cool, well-ventilated area.	

Section 8 Exposure Controls/ Personal Protection	
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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	Boiling point: Not available
Appearance: Clear.	Melting point: Not available
Odor: Alcohol odor. Fragrant	Freezing point: Not available
pH: 7	Decomposition temp: Not available
Vapor Pressure (mm Hg): Not available	Solubility: Miscible in water.
Vapor Density: Not available	Specific gravity (H ₂ O = 1): Not available
Evaporation Rate: Not available	Percent volatile (%): 100 Wt%
Viscosity: Not available	Molecular formula: Mixture
	Molecular weight: 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 LD ₅₀ Ethanol: 7060mg/kg[Rat]. 3450mg/kg [Mouse]	
VAPOR LC ₅₀ Ethanol: 20000ppm 8h [Rat]. 39000 mg/m³ 4h [Mouse]	
ORAL LD ₅₀ Isopropyl alcohol: 5045mg/kg[Rat]. 3600mg/kg [Mouse]. 6410 mg/kg [Rabbit]	
DERMAL LD ₅₀ Isopropyl alcohol: 12800 mg/kg 4h [Rabbit].	
ORAL LD ₅₀ Methyl alcohol: 5628mg/kg[Rat].	
VAPOR LC ₅₀ Methyl alcohol: 640000ppm 4h [Rat].	
DERMAL LDLD ₅₀ 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: Qty ≤1	

Section 15 Regulatory Information	
TSCA-listed, EINECS-listed (200-578-6)	

Section 16 Other Information	
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