



MATERIAL SAFETY DATA SHEET

MSDS No: 0007,009,00
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Approved by: Darius Nicpon

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Chemical Product and Company Name				ITEM No: CASE-B028
Product	DNA PRECIPITATION SOLUTION.			
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	
Ethanol	64-17-5	82.1%	TWA: 1000ppm	
*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			
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			
	2 = Moderate			
	3 = Serious			
	4 = Severe			
	Health 2			
	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.				

0 = Minimal

1 = Slight

2 = Moderate

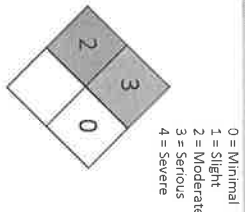
3 = Serious

4 = Severe

2

3

0



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 LD ₅₀ Ethanol: 7060mg/kg [Rat]. 3450mg/kg [Mouse]	
VAPOR LC ₅₀ Ethanol: 20000ppm 8h [Rat]. 39000 mg/m ³ 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: 64000ppm 4h [Rat].	
DERMAL LD 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: Lty Qty ≤1L	
Section 15	
Regulatory Information	
TSCA-listed, EINECS-listed (200-578-6)	
Section 16	
Other Information	
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