

# MATERIAL SAFETY DATA SHEET

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 Revision Date: December 16, 2011  
 Approved by: Darius Nicpon

17 Colt Court  
 Ronkonkoma, NY 11779  
 800-381-8003

Section 1 Chemical Product and Company Name		
Product	<b>DIFFERENTIAL STAIN</b>	ITEM No: 61-1EA
Synonyms	Denatured alcohol based stain	
CHEMTREC	24 Hour Emergency Phone Number (800) 424-9300	

Section 2 Composition/Ingredients Information			
Chemical Name	CAS#	%	TLV Units
Water	7732-18-5	>50%	None established
Ethanol (denatured)	64-17-5	<50%	TWA: 1000ppm
Formaldehyde	50-00-0	1%	0.37mg/m <sup>3</sup> STEL
Safranin O	477-73-6	<1%	None established
*Denaturants	67-63-0		TWA: 400ppm STEL: 500ppm
Isopropanol	67-56-1		TWA: 200ppm STEL: 250ppm
Methanol	108-10-1		TWA: 205ppm STEL: 300ppm
Methyl isobutyl ketone			

Section 3 Hazards Identification											
DANGER! FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED HARMFUL IF ABSORBED THROUGH SKIN. CAUSES EYE IRRITATION. CAN CAUSE CANCER. MAY CAUSE BIRTH DEFECTS. <b>Target organs:</b> liver, kidneys, CNS depressant	0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe	<table border="1"> <tr><td>Health</td><td>2</td></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	2	Flammability	3	Physical Hazard	0	Personal Protection	C	HMIS
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Section 4 First Aid Measures	
<b>INGESTION:</b> 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.	
<b>INHALATION:</b> Remove to fresh air. Get medical attention if necessary.	
<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.	
<b>SKIN CONTACT:</b> Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention if	

Section 5 Fire Fighting Measures	
Flammable liquid.	0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
<b>Extinguishing Media:</b> 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.	
<b>Flash point:</b> 58°F <b>Autoignition temperature:</b> 683°F <b>Explosion limits: Lower:</b> 3.3% <b>Upper:</b> 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.	
<b>Handling:</b> Use hood or with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor. Wash hands thoroughly after handling.	
<b>Storage:</b> Flammable cabinet. Keep container in cool, well-ventilated area.	

Section 8 Exposure Controls/ Personal Protection	
<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.	
<b>Respiratory protection:</b> 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	
<b>Physical state:</b> Liquid <b>Appearance:</b> Clear. <b>Odor:</b> Alcohol odor. Fragrant <b>pH:</b> 7 <b>Vapor Pressure ( mm Hg):</b> Not available <b>Vapor Density:</b> Not available <b>Evaporation Rate:</b> Not available <b>Viscosity:</b> Not available	<b>Boiling point:</b> Not available <b>Melting point:</b> Not available <b>Freezing point:</b> Not available <b>Decomposition temp:</b> Not available <b>Solubility:</b> Miscible in water. <b>Specific gravity (H<sub>2</sub>O = 1):</b> Not available <b>Percent volatile (%):</b> 100 Wt% <b>Molecular formula:</b> Mixture <b>Molecular weight:</b> N/A

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

Section 11 Toxicological Information	
<b>Effects of overexposure:</b> Toxic due to inhalation or ingestion. Ingested doses will produce nausea, dizziness and headache. Material is irritating to eyes and mucous membrane. It will temporally stain body tissue. This product contains formaldehyde. Formaldehyde is classified as A2 (Suspect to human as carcinogen). It is mutagenic for mammalian somatic cells. Ingestion of Formaldehyde causes gastrointestinal irritation with nausea, vomiting, diarrhea, pain in mouth and stomach. California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects, or other reproductive harm, which would require warning under the statute: Formaldehyde. ORAL LD <sub>50</sub> Formyldehyde: 100mg/kg [Rat]. 42mg/kg [Mouse]. 260mg/kg [Guinea pig]. SKIN LD <sub>50</sub> Formyldehyde: 270mg/kg [Rabbit]. ORAL LD <sub>50</sub> Ethanol: 7060mg/kg [Rat]. 3450mg/kg [Mouse] VAPOR LC <sub>50</sub> Ethanol: 20000ppm 8h [Rat]. 39000 mg/m <sup>3</sup> 4h [Mouse] 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]. ORAL LD <sub>50</sub> Methyl alcohol: 5628mg/kg [Rat]. VAPOR LC <sub>50</sub> Methyl alcohol: 640000ppm 4h [Rat].	
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> 1987 <b>NA:</b> N/A <b>Shipping name:</b> ALCOHOLS, NOS <b>Hazard Class:</b> 3 <b>Packing group:</b> PG II <b>Exceptions:</b> Lty Qty ≤1L	

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

Section 16 Other Information	
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