

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved

OMB NO. 1218-0072

Identity (As used on Label and List) GIEMSA SOLUTION	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section 1 CATALOG #15940

Manufacturer's Name ELECTRON MICROSCOPY SCIENCES	Emergency Telephone Number CHEMTREC - 800-424-9300
Address (Number, Street, City, State and ZIP Code) 1560 INDUSTRY ROAD * P.O. BOX 550	Telephone Number for Information 215-412-8400 FAX:215-412-8450
HATFIELD, PA 19440	Date Prepared REVISED 09/23/04
	Signature of Preparer (optional)

Section II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % (optional)

1. GIEMSA STAIN, certified CAS#: 51811-82-6 NO TOXICITY DATA AVAILABLE!				0.8% W/V
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2. METHANOL (CH₃OH) CAS#: 00067-56-1 FORM WT. 32.04 NIOSH/RTECS NO.: PC1400000 SYNONYMS: Methyl Alcohol, Wood Alcohol, Carbinol, Methylol, Wood Spirit (TLV/TWA): 260 mg/M ³ (200ppm) STEL: 310 mg/M ³ (250ppm) PEL: 260 mg/M ³ (200ppm) TOXICITY: LD50 (oral-rat) (mg/kg) - 5628 LD50 (ipr-rat) (mg/kg) - 9540 LD50 (sco-mouse) (mg/kg) - 9800				50% V/V
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3. GLYCERIN (HOCH₂CHOHCH₂OH) CAS#: 56-81-5 NIOSH/RTECS NO.: 7A8050000 SYNONYMS: 1,2,3 -Porpanetriol; Glycerol; Glycyl Alcohol TLV/TWA: 10mg/M ³ TOXICITY: LD50 (oral-mus) 9g/kg) - 26 LD50 (ipr-mus)(mg/kg) - 63				50% V/V
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Section III - Physical / Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	N/A		
Appearance and Odor: Dark, blue-purple heavy liquid			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL	UEL
Extinguishing Media: Carbon Dioxide, dry chemical			
Special Fire Fighting Procedures: Firefighter should wear full protective gear and self-contained breathing apparatus with full face piece operated in positive pressure mode.			
Unusual Fire and Explosion Hazards: Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. (Reproduce locally)			

GIEMSA SOLUTION

Section V -Reactivity Data

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid
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			Heat, flame and sparks
	Stable	<input checked="" type="checkbox"/>	
Incompatibility (Materials to Avoid) Strong oxidizing agents, strong acids., Chloroform, alkalies			
Hazardous Decomposition or Byproducts Carbon monoxide, carbon dioxide			
Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid
	May Not Occur	<input checked="" type="checkbox"/>	heat, flame and sparks.

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation ? YES	Skin? YES	Ingestion? YES
Health Hazards (Acute and Chronic): Ingestion causes inebriation, headache, nausea & vomiting leading to severe illness, blindness and perhaps death. Liquid causes eye irritation. Inhalation may cause drowsiness, nausea and vomiting.			
Carcinogenicity	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs And Symptoms of Exposure: Irritation to eyes, drowsiness, nausea, vomiting, headache, severe illness, inebriation and difficulty breathing.			
Medical Conditions Generally Aggravated by Exposure: N/A			
Emergency and First Aid Procedures: CALL A PHYSICIAN! If swallowed, if conscious, immediately induce vomiting. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact - immediately flush eyes or skin with plenty of water for at least 15 minutes.			

Section VII - Precautions For Safe Handling And Use

Steps to Be Taken in Case Material is Released or Spilled		Eliminate all sources of ignition. Wearing full protective clothing, absorb spill on sand earth or vermiculite. Sweep up and containerize for proper disposal. Wash spill area with soap and water.
Waste Disposal Method In accordance with all current state, local and federal environmental regulations.		
Precautions to be taken in handling and storing Use care when handling! Avoid all routes of exposure of exposure. Store in a cool, dry, well-ventilated flammable liquid storage area. Keep tightly closed. Keep away from heat, flames and sparks. Wash thoroughly after handling.		
Other Precautions DO NOT CONTAMINATE WATERWAYS!		

Section VIII - Control Measures

Respiratory Protection (Specify Type) At concentration above 200ppm, a self-contained breathing apparatus is advised.		
Ventilation	Local Exhaust	Special
	Mechanical (General) Fume hood	Other
Protective Gloves	Rubber gloves	Eye Protection Face shield/safety goggles
Other Protective Clothing or Equipment Approved work clothes.		
Work/Hygienic Practices Use care when handling! Avoid all routes of exposure!		

Section XII Ecological Information N/A

Section XIII Disposal Considerations In accordance with all current state, local,
and federal environmental regulations

Section XIV Transport Information: Methanol, 3, UN 1230 PG II

Section XV Regulatory Information N/A

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL-INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ELECTRON MICROSCOPY SCIENCES SHALL NOT BE LIABLE FOR ANY DAMAGE FROM HANDLING OR CONTACT WITH THE ABOVE PRODUCT.

