

BBC Biochemical MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name:	Giemsa Stain Regular	Code:	5210
Supplier:	BBC Biochemical	MSDS#:	5210
Synonym:	None	Validation Date:	2-20-09
Trade Name:	None	Print Date:	2-20-09
Material Uses:	Histology Staining	Responsible Name:	Dr. B
Manufacturer:	BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477	

Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	OSHA PEL/ TWA	/STEL
1) Methanol	67-56-1	NOTE: Percent composition withheld as a trade secret.	200 ppm 10 mg/m ³	250 ppm
2) Glycerin	56-81-5			
3) Giemsa Stain	51811-82-6			
4) Selected Romanowsky Stains	N/A			
5) Selected Additives	N/A			

Section 3. Hazards Identification

Physical State and Appearance	Dark blue liquid.
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	Irritation may cause vision impairment or permanent damage.
Skin	Irritation can be toxic by skin absorption.
Inhalation	Toxic. Exposure may also cause damage to liver, kidneys and Central Nervous System, especially the optic nerve.
Ingestion	Toxic. May produce blindness, may be fatal.
Potential Chronic Health Effects	
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	Skin conditions, eye problems, or impaired liver or kidney function.

Section 4. First Aid Measures

Eye Contact	Immediately flush thoroughly with water for at least 15 minutes.
Skin Contact	Wash thoroughly with water.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	If conscious, drink water. Do not induce vomiting, seek medical attention.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable liquid and vapor.
Auto-ignition Temperature	Not available.
Flash Points	52°F
Flammable Limits	Not available.

Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Not available.
Fire Fighting Media and Instructions	"Alcohol" foam, CO ₂ , Dry chemical
Protective Clothing (Fire)	Wear self-contained breathing apparatus and protective clothing.
Special Remarks on Fire Hazards	
Special Remarks on Explosion Hazards	

Section 6. Accidental Release Measures

Small Spill and Leak	Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Section VIII. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate it's source, if this can be done without risk. Take up and containerize for proper disposal as described under Waste Disposal Method. Comply with Federal, State, and local regulations on reporting releases.
Large Spill and Leak	Same as above.

Section 7, Handling and Storage

Handling	Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Electrically ground all equipment handling this product. Material must be handled or transferred in an approved fume hood or with adequate ventilation.
Storage	Keep container tightly closed. Store away from heat, sparks, open flame, oxidizers.

Section 8. Exposure Controls / Personal Protection

Engineering Controls	Engineering and/or administrative controls should be implemented to reduce exposure.
Personal Protection	
Eyes	Safety glasses with side shields must be worn at all times.
Body	Impervious clothing must be worn to prevent skin contact.
Respiratory	If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety supplier).
Hands	Butyl rubber, Vitron or equivalent.
Feet	Impervious footwear should be worn to prevent skin contact.
Personal Protection in Case of a Large Spill	See above.
Product Name	Exposure Limits
1)	
2)	
3)	
Consult Local authorities before acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Dark blue liquid.	Odor:	Alcoholic.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Dark blue.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	Not applicable.		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	Not applicable.		
Vapor Pressure	Not applicable.		
Vapor Density	Not applicable.		
Volatility	Not applicable.		
Odor Threshold	Not applicable.		
Evaporation Rate	Not applicable.		
VOC	Not available.		
Viscosity	Not available.		

Ionicity (in water)	Not available.
Dispersion Properties	Not available.
Solubility	Miscible in water.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Acids, oxidizers, reactive metals.
Hazardous Decomposition Products	CO _x , Formaldehyde.
Hazardous Polymerization	Does not occur.

Section 11. Toxicological Information

Toxicity to Animals	Methanol 67-56-1 LD50: orl-rat 5628 mg/kg; skn-rbt 15800 mg/kg LC50: ihl-rat 64000 ppm/4H LDLo: 143 mg/kg
Chronic Effects on Humans	
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Tests on laboratory animals indicate methanol may produce adverse mutagenic and reproductive effects. Cited in Registry of Toxic Effects of Substances (RTECS).
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Methanol Solution, UN1230, Methanol, 3, II
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Methanol 67-56-1 Glycerin 56-81-5
Special Provisions for Transport	Not applicable.
TDG Classification	Methanol Solution, UN1230, Methanol, 3, II
ADR/RID Classification	Not controlled under ADR (Europe).
IMO/IMDG Classification	Not controlled under IMDG.
ICAO/IATA Classification	See IATA Regulations, Methanol Solution, UN1230, Methanol, 3, II

Section 15. Other Information

Label requirements

Hazardous Material Information System (U.S.A.)	Health	2	National Fire Protection Association (U.S.A.)	
	Fire Hazard	3		
	Reactivity	0		
	Personal Protection			

References

Other Special Considerations

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.