

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: Jenners Stain	Code: 5216
Supplier: BBC Biochemical	MSDS#: 5216
Synonym:	Validation Date: 2-20-09
Trade Name: BoMar•Stain™	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	250 ppm
2) Glycerin	56-81-5		10mg/m ³	
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	<p>Eyes Causes irritation, redness, pain, blurred vision and possible permanent damage.</p> <p>Skin Irritation, can be toxic by skin absorption.</p> <p>Inhalation Toxic, exposure may also cause damage to liver, kidneys and central nervous system, especially the optic nerve.</p> <p>Ingestion Toxic, may produce blindness, may be fatal.</p>
Potential Chronic Health Effects	Repeated exposure by inhalation or absorption may cause systemic poisoning, impaired vision or blindness. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin exposure may cause defatting of the skin.
Medical Conditions Aggravated by Overexposure	Skin conditions, eye problems, or impaired liver or kidney function.
Overexposure/Signs/Symptoms	

Section 4. First Aid Measures

Eye Contact	Immediately flush thoroughly with water for at least 15 minutes. Call a physician.
Skin Contact	Remove contaminated clothing immediately. Wash thoroughly with water.
Inhalation	Remove to fresh air immediately. Give oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Call a physician.
Ingestion	Get immediate medical attention. Do not induce vomiting. Give water to dilute chemical if patient is conscious.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable liquid.
Auto-ignition Temperature	385 C (Methanol)

Flash Points	52°F
Flammable Limits	Upper: 36%, Lower: 6%
Products of Combustion	CO _x , Formaldehyde
Fire Hazards in Presence Of Various Substances	Vapors are heavier than air and may settle in low areas. Vapors may travel long distances to an ignition source and flash back explosively. Flame may be invisible. Not sensitive to impact.
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	Incompatible materials: Acids, oxidizers, reactive metals.
Special Remarks on Explosion Hazards	

Section 6. Accidental Release Measures

Small Spill and Leak	Clean up promptly with small absorbent cloth, if it can be done without risk.
Large Spill and Leak	Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under section VII. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its 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.

Section 7, Handling and Storage

Handling	Do not breath vapor or mist. Do not get in eyes, on skin, or on clothing. Electrically ground all equipment when handling this product.
Storage	Keep container tightly closed. Store away from heat, sparks, open flame, and oxidizers.

Section 8. Exposure Controls / Personal Protection

Engineering Controls	
Personal Protection	
Eyes	Safety glasses with side shields must be worn at all times.
Body	Impervious protective clothing must be worn to prevent skin contact.
Respiratory	If workspace exposure limit(s) of product or any component is exceeded (see TVL/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	Protective gloves: Butyl Rubber, Vitron or equivalent.
Feet	Not available.
Personal Protection in Case of a Large Spill	Same as 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:	Blue.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	146 F.		
Melting/Freezing Point	-144C		
Critical Temperature	Not applicable.		
Specific Gravity	.79 @ 21 C		
Vapor Pressure	96 mm Hg		
Vapor Density	1.105		
Volatility	Not applicable.		
Odor Threshold	2000 ppm		
Evaporation Rate	201 (butyl acetate=1)		
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	LD50: orl-rat: 5628mg/kg – skn-rbt: 15800mg/kg LC50: ihl-rat: 64000ppm/4H
Chronic Effects on Humans	
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Toxicological findings: 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	Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD) for permissible treatment sites.
Waste Stream	ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Methanol Solution, Flammable, UN1230, 3, II
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Methanol Solution, Flammable, UN1230, 3, II
ADR/RID Classification	ADR (Europe) Information not available.
IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	See IATA Regulations, Methanol Solution, Flammable, UN1230, 3, II

Section 15. Other Information

Label requirements	Flammable
---------------------------	-----------

Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Fire Hazard	3		
	Reactivity	0		
	Personal Protection			
References				
Other Special Considerations				
Notice to Reader <i>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.</i>				