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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:	09-04
Trade Name:	BoMar∙Stain™	Print Date:	09-04
Material Uses:	Histology Staining	Responsible Name:	Dr. B
Manufacturer:	BBC Biochemical 8510 Cedarhome Dr. NW Stanwood, WA 98292 1-800-635-4477	In Case of Emergency	<u>r: 1-800-424-9300 Chemtrec</u> USA 1-202-483-7616 Chemtrec Intrl 1-800-225-8867

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	OSHA PEL/TWA	/STEL
Methanol Glycerin Giemsa Stain Selected Romanowsky Stains	67-56-1 56-81-5 51811-82-6 N/A	NOTE: Percent composition withheld as a trade secret.	200 ppm 10mg/m³	250 ppm
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 E	Effects	
Eyes	Causes irritation, redness, pain, blurred vision and possible 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 Healtl	Repeated exposure by inhalation or absorption may cause systemic poisoning, impaired vision or	
Effects	blindness. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin exposure	
	may cause defatting of the skin.	
Medical Conditions	Skin conditions, eye problems, or impaired liver or kidney function.	
Aggravated by		
Overexposure		
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 soap and water.	
Inhalation	Remove to fresh air immediately. Give oxygen if b reathing is difficult. If breathing has stopped, give artificial respiration. Call a physician.	
Ingestion	Get immediate medical attention. If medical attention is not immediately available induce vomiting. Do not induce vomiting if patient is unconscious.	
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

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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 Special Remarks on Explosion Hazards	Incompatible materials: Acids, oxidizers, reactive metals.

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	e 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 I	before acceptable exposure limits.

Section 9. Physica	l 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	Not available.	

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Comments

Section 10. Stabilit	ty and Reactivity
Stability and Reactivity	Stable.
Conditions of Instability	Not available.
Incompatibility with	Acids, oxidizers, reactive metals.
Various Substances	
Hazardous Decomposition	n CO _x , Formaldehyde
Products	
Hazardous	Does not occur.
Polymeriz ation	
Section 11. Toxico	ological Information
Toxicity to Animals	_D50: orl-rat: 5628mg/kg – skn-rbt: 15800mg/kg
	_C50: ihl-rat: 64000ppm/4H
Chronic Effects on Humans	
Other Toxic Effects on	
Humans	
Special Remarks on	Toxicological findings: Tests on laboratory animals indicate methanol may produce adverse mutagenic
	and reproductive effects. Cited in Registry of Toxic Effects of Substances. (RTECS).
	Not available.
Chronic Effects on	
Humans	
	Not available.
Other Toxic Effects	
on Humans	

Section 12. Ecolo	Section 12. Ecological Information	
Ecotoxicity	Not available.	
BODS and COD	Not available.	
Biodegradable/OEDC	Not available.	
Mobility	Not available.	
Toxicity of the	Not available.	
Products of		
Biodegradation		
Special Remarks on	Not available.	
The Products of		
Biodegradation		

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	
Marine Pollutant	Not available.	
Hazardous Substances	Not available.	
Reportable Quantity		
Special Provisions for	Not applicable.	
Transport		
TDG Classification	Not controlled under TDG (Canada).	
ADR/RID Classification	Not controlled under ADR (Europe).	
IMO/IMDG Classification	Not controlled under IMDG.	
ICAO/IATA Classification	Not controlled under IATA.	

Section 15. Other Information					
Label requirements	Flammable				
Hazardous Material	Health	1	National Fire	Fire Hazard	
Information System (U.S.A.)	Fire Hazard	3	Protection	Health 3 Reactivity	
	Reactivity	0	Association (U.S.A.)	Specific Hazard	
			(0.0.7.)	Specific Hazard	

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Personal Protection
References
Other Special
Considerations
Validated by Dr. B on 09-04.
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
annument and light substances for the annument or annument of the information contained basely