

# BBC Biochemical MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Information

Common Name:	Gill's Hematoxylin III	Code:	4560,4570, 4580
Supplier:	BBC Biochemical	MSDS#:	4580
Synonym:	Hematoxylin Stain Solution	Validation Date:	4-17-09
Trade Name:	None	Print Date:	4-17-09
Material Uses:	Stains	Responsible Name:	Dr. Biesecker
Manufacturer:	BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	<b>In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477</b>	

## Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits
1) Water	7732-18-5	Percentage composition withheld as trade secret.	Data not available.
2) Hematoxylin	517-28-2		
3) Aluminum Sulfate	7784-1-8		
4) Sodium Iodate	7681-55-2		
5) Ethylene Glycol	107-21-1		
6) Glacial Acetic Acid	64-19-7		
7) Aluminum Ammonium Sulfate	7784-26-1		
8) Dimethyl Sulfoxide	67-68-5		

## Section 3. Hazards Identification

Physical State and Appearance	Deep purple liquid.
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	Irritation may cause permanent damage.
Skin	Irritation.
Inhalation	Irritation to nose, throat, mucous membranes, and respiratory system.
Ingestion	May be harmful if swallowed.
Potential Chronic Health Effects	
Medical Conditions	Data not available.
Aggravated by Overexposure	
Overexposure/ Signs/Symptoms	

## Section 4. First Aid Measures

Eye Contact	Immediately flush 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, give water freely and get immediate medical attention.
Notes to Physician	Not available.

## Section 5. Fire Fighting Measures

Flammability of the Product	Not available.
Auto-ignition Temperature	Not available.
Flash Points	Not applicable.
Flammable Limits	Not available.
Products of Combustion	AlO <sub>x</sub> , ZnO, Co <sub>x</sub> , SO <sub>x</sub> .

<b>Fire Hazards in Presence Of Various Substances</b>	Not available.
<b>Explosion Hazards in Presence of Various Substances</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Wear self-contained breathing apparatus and protective clothing. Extinguishing media: Dry chemical, carbon dioxide, "Alcohol" foam; water spray to cool fire-exposed and disperse vapors.
<b>Protective Clothing (Fire)</b>	
<b>Special Remarks on Fire Hazards</b>	
<b>Special Remarks on Explosion Hazards</b>	

### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	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 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.
<b>Large Spill and Leak</b>	Same as above.

### Section 7, Handling and Storage

<b>Handling</b>	Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not take internally. Have eye wash and safety equipment available.
<b>Storage</b>	Keep container tightly closed. Store away from heat, sparks, open flame.

### Section 8. Exposure Controls / Personal Protection

<b>Engineering Controls</b>	
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses with side shields must be worn at all times.
<b>Body</b>	Impervious protective clothing must be worn to prevent skin contact.
<b>Respiratory</b>	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 or proper environmental control. Engineering and/or administrative controls should be implemented to reduce exposure. Material must be handled or transferred in an approved fume hood or with adequate ventilation.
<b>Hands</b>	Neoprene, Nitrile or equivalent.
<b>Feet</b>	Data not available.
<b>Personal Protection in Case of a Large Spill</b>	Safety glasses with side shields, impervious clothing, respirator if necessary, Neoprene, Nitrile or equivalent gloves.
<b>Product Name</b>	<b>Exposure Limits</b>
1) Data not available.	
2)	
3)	
<b>Consult Local authorities before acceptable exposure limits.</b>	

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Deep purple liquid.	<b>Odor:</b>	Not available.
<b>Molecular Weight</b>	Not applicable.	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	Deep purple.
<b>PH (1%/Water)</b>	Not applicable.		
<b>Boiling/Condensation Point</b>	Not applicable.		
<b>Melting/Freezing Point</b>	Not applicable.		
<b>Critical Temperature</b>	Not applicable.		
<b>Specific Gravity</b>	Not applicable.		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not applicable.		
<b>Volatility</b>	Not applicable.		
<b>Odor Threshold</b>	Not applicable.		
<b>Evaporation Rate</b>	Not applicable.		
<b>VOC</b>	Not available.		
<b>Viscosity</b>	Not available.		
<b>Ionicity (in water)</b>	Not available.		
<b>Dispersion Properties</b>	Not available.		

<b>Solubility</b>	Soluble in water.
<b>Physical Chemical Comments</b>	Not available.

### **Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	Stable.
<b>Conditions of Instability</b>	Heat, sparks, open flame.
<b>Incompatibility with Various Substances</b>	Oxidizers.
<b>Hazardous Decomposition Products</b>	Thermal decomposition produces toxic fumes.
<b>Hazardous Polymerization</b>	Not available.

### **Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	LD50: Not available. LC50: Not available.
<b>Chronic Effects on Humans</b>	
<b>Other Toxic Effects on Humans</b>	
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Not available.
<b>Special Remarks on Other Toxic Effects on Humans</b>	Not available.

### **Section 12. Ecological Information**

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

### **Section 13. Disposal Considerations**

<b>Waste Information</b>	Not available.
<b>Waste Stream</b>	Not available.
<b>Consult your local or regional authorities.</b>	

### **Section 14. Transport Information**

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

### **Section 15. Other Information**

Label requirements

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