

## BBC Biochemical

## MATERIAL SAFETY DATA SHEET

**Section 1. Chemical Product and Company Information**

Common Name: F.S. Hematoxylin™	Code: 3530, 3540, 3550, 3555
Supplier: BBC Biochemical	MSDS#: 3530
Synonym: Not available	Validation Date: 9-1-07
Trade Name: Not available	Print Date: 9-1-07
Material Uses: Not available	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	Exposure Limits
1) Water	7732-18-5	Percentage composition is Withheld as a trade secret.	Data not available.
2) Hematoxylin	517-28-2		Data not available.
3) Aluminum Ammonium Sulfate	7784-26-1		Data not available.
4) Sodium Iodate	7681-55-2		Data not available.
5) Aluminum Sulfate	10043-01-3		Data not available.
6) Ethylene Glycol	107-21-1		Data not available.
7) Glacial Acetic Acid	64-19-7		OSHA PEL 10ppm TWA

**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 area thoroughly with copious amounts of water. Remove contaminated clothing and clean before wearing again.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	If conscious, give water freely, get immediate medical attention.
Notes to Physician	Not available.

**Section 5. Fire Fighting Measures**

Flammability of the	Not flammable.
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<b>Product</b>	
<b>Auto-ignition Temperature</b>	Not available.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	LEL (%) Not applicable; UEL (%) Not applicable.
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence Of Various Substances</b>	Heat, sparks, open flame.
<b>Explosion Hazards in Presence of Various Substances</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Dry chemical, carbon dioxide, "Alcohol" foam; water spray to cool fire-exposed and disperse vapors.
<b>Protective Clothing (Fire)</b>	Wear self-contained breathing apparatus and protective clothing.
<b>Special Remarks on Fire Hazards</b>	Thermal decomposition produces toxic fumes.
<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 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.
<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 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 of proper environmental control. Engineering and/or administrative controls should be implemented to reduce exposure.
<b>Hands</b>	Neoprene, nitrile or equivalent gloves should be worn.
<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) Water	Data not available.
2) Hematoxylin	Data not available.
3) Aluminum Ammonium Sulfate	Data not available.
4) Glacial Acetic Acid	OSHA PEL 10ppm TWA
<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.		

Odor Threshold	Not applicable.
Evaporation Rate	Not applicable.
VOC	Not available.
Viscosity	Not available.
Ionicity (in water)	Not available.
Dispersion Properties	Not available.
Solubility	Soluble 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	Oxidizers.
Hazardous Decomposition Products	Ammonium, Co <sub>x</sub> , SO <sub>x</sub>
Hazardous Polymerization	Not available.

### Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Tests on laboratory animals indicate some material may produce adverse mutagenic and reproductive effects. Some material may cause tumors. 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	Not hazardous.
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
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**

<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>			

**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.*