

## BBC Biochemical

## MATERIAL SAFETY DATA SHEET

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

Common Name: Special Eosin™ II	Code: 3730
Supplier: BBC Biochemical	MSDS#: 3730, 3740, 3750
Synonym: None	Validation Date: 4-17-09
Trade Name: Special Eosin™ II	Print Date: 4-17-09
Material Uses: Stain	Responsible Name: Dr. B
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	1737-87-1	Percentage composition is withheld as a trade secret.	Data not available. OSHA PEL 1000 ppm TWA.
2) Denatured Ethanol Mixture			
•Ethyl Alcohol	64-17-5		
•Methyl Alcohol	67-56-1		
•Isopropyl Alcohol	67-63-0		
3) Eosin Y	17372-87-1		Data not available.
4) Glacial Acetic Acid	64-19-7		OSHA PEL 10ppm TWA

**Section 3. Hazards Identification**

<b>Physical State and Appearance</b>	Fluorescent orange liquid, characteristic odor.
<b>Emergency Overview</b>	Not available.
<b>Routes of Entry</b>	Eye contact, inhalation, ingestion, skin contact.
<b>Potential Acute Health Effects</b>	
<b>Eyes</b>	Irritation.
<b>Skin</b>	Irritation.
<b>Inhalation</b>	May cause dizziness, headache, nausea, and narcosis.
<b>Ingestion</b>	May cause blindness, nausea, damage to gastrointestinal tract, liver, kidneys, and cardiovascular system.
<b>Potential Chronic Health Effects</b>	
<b>Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms</b>	Kidney, liver, heart, and GI conditions.

**Section 4. First Aid Measures**

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

**Section 5. Fire Fighting Measures**

<b>Flammability of the Product</b>	Not available.
<b>Auto-ignition Temperature</b>	Not available.
<b>Flash Points</b>	About 55 Degrees F.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence</b>	Heat.

**Of Various Substances**

**Explosion Hazards in Presence of Various Substances** Vapor can travel distances to ignitions source and flash back.

**Fire Fighting Media and Instructions** Dry chemical, carbon dioxide, alcohol foam. Use water spray to cool fire-exposed containers and disperse vapors. Fire fighters should use self-contained breathing apparatus and protective clothing.

**Protective Clothing (Fire)****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. Eliminate all sources of ignition and provide ventilation.

**Large Spill and Leak** Same as above.

**Section 7, Handling and Storage**

**Handling** Use adequate ventilation. Avoid repeated or prolonged skin contact or breathing of vapors. Do not breathe vapors. Do not get in eyes.

**Storage** Store and use in areas away from heat, sparks, and open flame. Store in tightly closed containers in a cool, dry, well-ventilated, fire-resistant area. Store away from oxidizing agents.

**Section 8. Exposure Controls / Personal Protection****Engineering Controls****Personal Protection**

**Eyes** Safety glasses with approved side shields should be worn at all times. Eyewash and safety shower should be available.

**Body** Protective clothing to minimize skin contact.

**Respiratory** Use NIOSH or MSHA approved respirators in absence of proper environmental control. Approved fume hood or other approved ventilation.

**Hands** Neoprene, Nitrile or equivalent gloves.

**Feet** Data not available.

**Personal Protection in Case of a Large Spill** Safety glasses with side shields, protective clothing, respirator if necessary, neoprene, nitrile or equivalent gloves.

**Product Name****Exposure Limits**

- |                              |                      |
|------------------------------|----------------------|
| 1) Water                     | Data not available.  |
| 2) Denatured Ethanol Mixture | OSHA PEL 1000ppm TWA |
| 3) Glacial Acetic Acid       | OSHA PEL 10ppm TWA   |

**Consult Local authorities before acceptable exposure limits.**

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Fluorescent orange liquid, characteristic odor.	<b>Odor:</b>	Characteristic odor.
--------------------------------------	---	--------------	----------------------

<b>Molecular Weight</b>	Not applicable.	<b>Taste:</b>	Not available.
-------------------------	-----------------	---------------	----------------

<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	Fluorescent orange.
--------------------------	-----------------	---------------	---------------------

<b>pH (1%/Water)</b>	Not applicable.
----------------------	-----------------

<b>Boiling/Condensation Point</b>	173 Degrees F.
-----------------------------------	----------------

<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>	Complete 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.
<b>Incompatibility with Various Substances</b>	Oxidizers.
<b>Hazardous Decomposition Products</b>	Bromine compounds, Co <sub>x</sub> , Na <sub>2</sub> O, strong oxidizing agent, such as nitrates, perchlorates, peroxides, chromic, nitric and sulfuric acid..
<b>Hazardous Polymerization</b>	Does not occur.

### 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>	Tests on laboratory animals indicate Eosin Y may produce adverse mutagenic effects and cause tumors. Cited in Registry of Toxic Effects of Substances (RTECS).
<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</b>	Not available.
<b>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>	Disposal by Incineration or fuel blending. Contact your local licensed waste disposal company. Follow Federal, State, and local regulations.
<b>Waste Stream</b>	Not available.
<b>Consult your local or regional authorities.</b>	

### Section 14. Transport Information

<b>DOT Classification</b>	Flammable, Ethanol Solution, UN1170, 3, III
<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>	Flammable, Ethanol Solution, UN1170, 3, III
<b>ADR/RID Classification</b>	ADR (Europe) Information not available.
<b>IMO/IMDG Classification</b>	IMDG Information not available.
<b>ICAO/IATA Classification</b>	See IATA Regulations, Flammable, Ethanol Solution, UN1170, 3, III

### Section 15. Other Information

<b>Label requirements</b>			
<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health</b>	2	<b>National Fire Protection Association (U.S.A.)</b>
	<b>Fire Hazard</b>	3	
	<b>Reactivity</b>	1	
	<b>Personal Protection</b>		
<b>References</b>			
<b>Other Special Considerations</b>			

#### 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.

