

# BBC Biochemical MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Information

Common Name:	Eosin Y Aqueous (Buffered)	Code:	3640, 3650, 3660
Supplier:	BBC Biochemical	MSDS#:	3640
Synonym:	None	Validation Date:	3-4-09
Trade Name:	Eosin Y Aqueous (Buffered)	Print Date:	3-4-09
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.
2) Eosin Y	17372-87-1		Data not available.
3) Glacial Acetic Acid	64-19-7		OSHA PEL 10ppm TWA
4) Ethyl Alcohol	64-17-5		OSHA PEL 1000ppm TWA

## Section 3. Hazards Identification

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

## Section 4. First Aid Measures

Eye Contact	Immediately flush thoroughly 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, drink water. Seek medical attention. Do not induce vomiting.
Notes to Physician	Not available.

## Section 5. Fire Fighting Measures

Flammability of the Product	Not available.
Auto-ignition Temperature	Not available.
Flash Points	About 55 Degrees F.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Heat.
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**

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|------------------------------|----------------------|
| 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.
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<b>Molecular Weight</b>	Not applicable.	<b>Taste:</b>	Not available.
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<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	Fluorescent orange.
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<b>pH (1%/Water)</b>	Not applicable.
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<b>Boiling/Condensation Point</b>	173 Degrees F.
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<b>Melting/Freezing Point</b>	Not applicable.
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<b>Critical Temperature</b>	Not applicable.
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<b>Specific Gravity</b>	Not applicable.
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<b>Vapor Pressure</b>	Not applicable.
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<b>Vapor Density</b>	Not applicable.
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<b>Volatility</b>	Not applicable.
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<b>Odor Threshold</b>	Not applicable.
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<b>Evaporation Rate</b>	Not applicable.
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<b>VOC</b>	Not available.
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<b>Viscosity</b>	Not available.
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<b>Ionicity (in water)</b>	Not available.
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<b>Dispersion Properties</b>	Not available.
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<b>Solubility</b>	Complete in water.
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<b>Physical Chemical</b>	Not available.
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<b>Comments</b>	
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**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	Stable.
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<b>Conditions of Instability</b>	Heat.
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<b>Incompatibility with Various Substances</b>	Oxidizers.
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<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..
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<b>Hazardous Polymerization</b>	Does not occur.
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**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	Glacial Acetic Acid CAS 64-19-7 Oral rat LD50: 3310 mg/kg; skin rabbit LD50: 1.06 g/kg; inhalation mouse LC50: 5620ppm/1-hr  Ethyl Alcohol (denatured) CAS 64-17-5 oral rat LD50: 7060 mg/kg; inhalation rat LC50: 20,000 ppm/10H; Irritation data, eye, rabbit: 500 mg/24H moderate; Investigated as a tumorigen, mutagen, reproductive effector. Methyl alcohol: oral rat LD50: 5628 mg/kg; inhalation rat LC50: 64000 ppm/4H; skin rabbit LD50: 15800 mg/kg; Irritation data, skin, rabbit: 20 mg/24H, Moderate; Investigated as a tumorigen, mutagen, reproductive effector. Isopropyl alcohol: oral rat LD50: 5045 mg/kg; skin rabbit LD50: 12.8 gm/kg; inhalation, rat: 16,000 ppm 8 hr.
<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>	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**

<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>	1	
	<b>Reactivity</b>	1	
	<b>Personal Protection</b>		
<b>References</b>			
<b>Other Special Considerations</b>			
<b>Notice to Reader</b>			
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries			

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