

## BBC Biochemical

## MATERIAL SAFETY DATA SHEET

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

Common Name: Tissue I.D.™	Code: 3600
Supplier: BBC Biochemical	MSDS#: 3600
Synonym: None	Validation Date: 3-18-09
Trade Name: None	Print Date: 3-18-09
Material Uses: Tissue staining.	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#	OSHA PEL	OSHA STEL
1) Water	1737-87-1	N/A	N/A
2) Denatured Ethanol Mixtu Ethyl Alcohol	64-17-5	1000 ppm	None established
Methyl Alcohol	67-56-1	200 ppm	250 ppm
Denaturing Alcohol	67-63-0		400 ppm
3) Eosin Y	17372-87-1	N/A	N/A

**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>	Components not listed (IARC, NTP, OSHA) as cancer causing agents.
<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>	Flammable
<b>Auto-ignition Temperature</b>	Not available.
<b>Flash Points</b>	About 55° F.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	Not available.

<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>	Dry chemical, carbon dioxide, alcohol foam. Use water spray to cool fire-exposed containers and disperse vapors.
<b>Protective Clothing (Fire)</b>	Fire fighters should use self-contained breathing apparatus and protective clothing.
<b>Special Remarks on Fire Hazards</b>	Vapor can travel distances to ignition source and flash back.
<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. Eliminate all sources of ignition and provide ventilation.
<b>Large Spill and Leak</b>	Same as above.

### Section 7, Handling and Storage

<b>Handling</b>	Use adequate ventilation. Avoid repeated or prolonged skin contact or breathing of vapors. Do not breathe vapors. Do not get in eyes.
<b>Storage</b>	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

<b>Engineering Controls</b>	
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses with approved side shields should be worn at all times. Eye wash should be available.
<b>Body</b>	Protective clothing should be worn to minimize skin contact. Safety shower should be available.
<b>Respiratory</b>	Use NIOSH or MSHA approved respirators in absence of proper environmental control. Approved fume hood should be available.
<b>Hands</b>	Neoprene, Nitrile or equivalent gloves should be worn at all times.
<b>Feet</b>	Protective footwear should be worn at all times to minimize skin contact.
<b>Personal Protection in Case of a Large Spill</b>	See above.
<b>Product Name</b>	<b>Exposure Limits</b>
1) Ethyl Alcohol	OSHA PEL 1000ppm TWA
2)	
3)	
<b>Consult Local authorities before acceptable exposure limits.</b>	

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Fluorescent orange liquid.	<b>Odor:</b>	Characteristics.
<b>Molecular Weight</b>	Not applicable.	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	Fluorescent orange liquid.
<b>pH (1%/Water)</b>	Not applicable.		
<b>Boiling/Condensation Point</b>	173° 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 agents, 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>	This product contains the following toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:  <table border="1"> <thead> <tr> <th>Chemical Name</th> <th>CAS #</th> <th>Percent by Weight</th> </tr> </thead> <tbody> <tr> <td>Methanol</td> <td>67-56-1</td> <td>&lt;2%</td> </tr> </tbody> </table>	Chemical Name	CAS #	Percent by Weight	Methanol	67-56-1	<2%
Chemical Name	CAS #	Percent by Weight					
Methanol	67-56-1	<2%					
<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>	Not available.
<b>Waste Stream</b>	Not available.
<b>Consult your local or regional authorities.</b>	

**Section 14. Transport Information**

<b>DOT Classification</b>	UN1993, Flammable Liquids, n.o.s., (Ethanol), 3, II
<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>	UN1993, Flammable Liquids, n.o.s., (Ethanol), 3, II
<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, UN1993, Flammable Liquids, n.o.s., (Ethanol), 3, II

**Section 15. Other Information**

<b>Label requirements</b>	
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<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>	0		
	<b>Personal Protection</b>			
<b>References</b>				
<b>Other Special Considerations</b>				
<b>Notice to Reader</b>				
<p><i>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.</i></p>				