

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: 3/15/00
Trade Name: None	Print Date: 3/15/00
Material Uses: Tissue staining.	Responsible Name: Dr. B
Manufacturer: BBC Biochemical 8510 Cedarhome Dr. Stanwood, WA 98292	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-225-8867

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 Mixture			
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

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	Components not listed (IARC, NTP, OSHA) as cancer causing agents.
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 soap and water.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	If conscious, drink water and 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° F.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.

Explosion Hazards in Presence of Various Substances	Not available.
Fire Fighting Media and Instructions	Dry chemical, carbon dioxide, alcohol foam. Use water spray to cool fire-exposed containers and disperse vapors.
Protective Clothing (Fire)	Fire fighters should use self-contained breathing apparatus and protective clothing.
Special Remarks on Fire Hazards	Vapor can travel distances to ignition source and flash back.
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. Eye wash should be available.
Body	Protective clothing should be worn to minimize skin contact. Safety shower should be available.
Respiratory	Use NIOSH or MSHA approved respirators in absence of proper environmental control. Approved fume hood should be available.
Hands	Neoprene, Nitrile or equivalent gloves should be worn at all times.
Feet	Protective footwear should be worn at all times to minimize skin contact.

Personal Protection in Case of a Large Spill

See above.

Product Name

Exposure Limits

- 1)
- 2)
- 3)

Consult Local authorities before acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Fluorescent orange liquid.	Odor:	Characteristics.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Fluorescent orange liquid.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	173° F.		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	Not applicable.		
Vapor Pressure	Not applicable.		
Vapor Density	Not applicable.		
Volatility	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	Complete in water.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
--------------------------	---------

Conditions of Instability	Heat.
Incompatibility with Various Substances	Oxidizers.
Hazardous Decomposition Products	Bromine compounds, CO _x , Na ₂ O, strong oxidizing agents, such as nitrates, perchlorates, peroxides, chromic, nitric and sulfuric acid.
Hazardous Polymerization	Does not occur.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.						
Chronic Effects on Humans	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><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%					
Other Toxic Effects on Humans							
Special Remarks on Toxicity to Animals	Tests on laboratory animals indicate Eosin Y may produce adverse mutagenic effects and 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	
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			
Hazardous Material Information System (U.S.A.)	Health	2	National Fire Protection Association (U.S.A.)
	Fire Hazard	3	
	Reactivity	0	
	Personal Protection		

References

**Other Special
Considerations**

Validated by Dr. B on 3/15/00.

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.