

BBC Biochemical MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: F.S. Eosin™	Code: 6540
Supplier: BBC Biochemical	MSDS#: 6540
Synonym: None	Validation Date: 3-4-09
Trade Name: None	Print Date: 3-4-09
Material Uses: None	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	1737-87-1	Percentage composition is withheld as a trade secret.	Data not available.
2) Denatured Ethanol Mixture			Data not available.
•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		Data not available.

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	Kidney, liver, heart, and GI conditions.
Aggravated by	
Overexposure	
Overexposure/Signs/Symptoms	

Section 4. First Aid Measures

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

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable liquid.
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
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

Physical State and Appearance	Fluorescent orange liquid, characteristic odor.	Odor:	Characteristic odor.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Fluorescent orange.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	173 Degrees 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.		
VOG	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 agent, such as nitrates, perchlorates, peroxides, chromic, nitric and sulfuric acid..
Hazardous Polymerization	Does not occur.

Section 11. Toxicological Information

Toxicity to Animals	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.
Chronic Effects on Humans	
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	Disposal by Incineration or fuel blending. Contact your local licensed waste disposal company. Follow Federal, State, and local regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	UN1993, Flamamble Liquids, n.o.s., (Ethanol), 3, II
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	UN1993, Flamamble Liquids, n.o.s., (Ethanol), 3, II
ADR/RID Classification	ADR (Europe) Information not available.
IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	See IATA Regulations, UN1993, Flamamble Liquids, n.o.s., (Ethanol), 3, II

Section 15. Other Information

Label requirements	
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Hazardous Material Information System (U.S.A.)	Health	2	National Fire Protection Association (U.S.A.)	<p>The diagram is a diamond shape divided into four quadrants. The top quadrant contains the number 3 and is labeled 'Fire Hazard'. The left quadrant contains the number 2 and is labeled 'Health'. The right quadrant contains the number 1 and is labeled 'Reactivity'. The bottom quadrant is empty and labeled 'Specific Hazard'.</p>
	Fire Hazard	3		
	Reactivity	1		
	Personal Protection			
References				
Other Special Considerations				
Notice to Reader				
<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>				