

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: S3-Histo™	Code: 4320
Supplier: BBC Biochemical	MSDS#: 4320
Synonym: Petroleum Distillates	Validation Date: 3-6-09
Trade Name: S3-Histo™	Print Date: 3-6-09
Material Uses: Clearing Agent	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) Light Aliphatic Solvent	N/A	N/A	NIOSH REL 350mg/m3 TWA 10 hour. NIOSH 1800mg/m3 15 minute exposure

Section 3. Hazards Identification

Physical State and Appearance	Clear Liquid.
Emergency Overview	Flammable.
Routes of Entry	Eyes, mouth, skin.
Potential Acute Health Effects	<p>Eyes Negligible eye irritant.</p> <p>Skin May produce moderate irritation to the skin. Prolonged or repeated liquid contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis.</p> <p>Inhalation Vapors may produce irritation to the eye, nose, throat and respiratory tract. High vapor concentrations may produce general central nervous system (CNS) depression.</p> <p>Ingestion Ingestion may result in vomiting; aspiration (breathing) of solvent or vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.</p>
Potential Chronic Health Effects	Signs of central nervous system (CNS) depression (including disorientation, giddiness, confusion, progressing to unconsciousness, paralysis, convulsions and death) may occur with acute toxic concentrations. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (blush skin). In severe cases death may occur.
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	Not available.

Section 4. First Aid Measures

Eye Contact	Immediately flush with water for at least 15 minutes.
Skin Contact	Immediately flush with large amounts of water.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	Extreme care must be taken to prevent aspiration. Get medical attention immediately. Do not induce vomiting.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Severe Fire Hazard.
Auto-ignition Temperature	555°F
Flash Points	20°F to 55°F closed cup
Flammable Limits	1.2 to 6.0
Products of Combustion	Not available.
Fire Hazards in Presence	Avoid heat, sparks, flame and contact with strong oxidizing agents.

Of Various Substances

Explosion Hazards in Presence of Various Substances Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening the container structure.

Fire Fighting Media and Instructions WARNING. FLAMMABLE. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water. Use water fog, foam, dry chemical or CO₂. Do not use a direct stream of water. Product will float and can be reignited on the surface of water.

Protective Clothing (Fire)**Special Remarks on Fire Hazards****Special Remarks on Explosion Hazards****Section 6. Accidental Release Measures**

Small Spill and Leak Steps to be taken in case material is spilled or released:
 Flush small spills with large amounts of water.
 Evacuate the area of all unnecessary personnel.
 Wear suitable protective clothing listed in section VII
 Contain the release and eliminate its source, if this can be done without risk.
 Neutralize, take up and containerize for proper disposal as described under Waste Disposal Method.
 Comply with Federal, State, and local regulations on reporting releases.

Large Spill and Leak See Above.

Section 7, Handling and Storage

Handling Wash thoroughly after handling.

Storage Precautions to be Taken In Handling and Storage:
 Keep container closed.
 Store at controlled room temperature.
 Do no breath solution mist.
 Avoid contact with eyes, skin, and clothing.

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

Eyes Protective gloves should be worn to prevent skin contact (Neoprene or equivalent).

Body Safety glasses with side shields should be worn at all times.
 Eye wash and safety equipment should be available.

Respiratory Any dust and mist respirator. If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MAHA approved air supplied respirator is advised in absence of proper environmental control.

Hands Protective gloves should be worn to prevent skin contact (Neoprene or equivalent).

Feet

Personal Protection in Case of a Large Spill ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

Product Name Exposure Limits

- 1)
- 2)
- 3)

Consult Local authorities before acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear liquid.	Odor:	Mild Petroleum Odor
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Clear.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	239°-286°F		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	0.76 @ 60°F		
Vapor Pressure	45 @ 100°F		
Vapor Density	4.10		
Volatility	Not applicable.		

Odor Threshold	Not applicable.
Evaporation Rate	1.2
VOC	Not available.
Viscosity	0.8 CST @ 77FN/P
Ionicity (in water)	Not available.
Dispersion Properties	Not available.
Solubility	Negligible.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide and unidentified organic compounds may be formed during combustion.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	Not Available
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Not available.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not applicable.

Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC Mobility	Not available. 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	Petroleum distillates, n.o.s.; 3; UN1268; PG II; Flammable Liquid
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Petroleum distillates, n.o.s.; 3; UN1268; PG II; Flammable Liquid
ADR/RID Classification	ADR (Europe) Information not available.
IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	See IATA Regulations, Petroleum distillates, n.o.s.; 3; UN1268; PG II; Flammable Liquid

Section 15. Other Information

Label requirements		Flammable.			
Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)		
	Fire Hazard	3			
	Reactivity	0			
	Personal Protection				
References					
Other Special Considerations					
Notice to Reader					
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