

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: S3-Cyto™	Code: 4881
Supplier: BBC Biochemical	MSDS#: 4881
Synonym: Petroleum Distillates	Validation Date: 3-6-09
Trade Name: S3-Cyto™	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 Of Various Substances	Avoid heat, sparks, flame and contact with strong oxidizing agents.
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 CO ₂ . 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	-68°F.		
Critical Temperature	Not applicable.		
Specific Gravity	0.78 @ 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	Not available.
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	INHALATION: Acute Inhalation LD ₅₀ = >5000 ppm rat, 1 hr INGESTION: Acute Oral LD ₅₀ = >2000 ppm rat SKIN CONTACT: Acute Dermal LD ₅₀ = >2000 ppm rat
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	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:
	CAS# Chemical Name DeMinimis/SARA 313 %

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.	

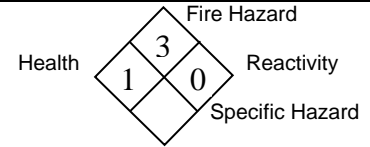
Section 14. Transport Information

DOT Classification	Petroleum distillates, n.o.s.; 3; UN1268; III; 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; III; Flammable Liquid
ADR/RID Classification	ADR (Europe) Information not available.

IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	See IATA Regulations.

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

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.