

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: FNA•CellBlock Fix™	Code: 2510
Supplier: BBC Biochemical	MSDS#: 2510
Synonym: None	Validation Date: 2-20-09
Trade Name: None	Print Date: 2-20-09
Material Uses: Fixation of cells	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#	OSHA PEL/TWA	OSHA PEL/STEL
1) Water	7732-18-5		
2) Formaldehyde 37%	50-00-0	0.75 ppm	2 ppm
4) Acetone	67-64-1	1000 ppm	N/A
5) Selected Buffers	N/A	N/A	N/A

Section 3. Hazards Identification

Physical State and Appearance	Clear blue liquid, pungent odor.
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	Irritation, may cause permanent damage.
Skin	Irritation, sensitizer.
Inhalation	Irritation to nose, throat and respiratory system.
Ingestion	May cause allergic reaction, may cause blindness.
Potential Chronic Health Effects	Formaldehyde is a strong sensitizer. It has the potential to cause cancer in humans. Various animal experiment have shown it to cause cancer in rats.
Medical Conditions	Respiratory conditions.
Aggravated by Overexposure	
Overexposure/Signs/Symptoms	GET IMMEDIATE ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Section 4. First Aid Measures

Eye Contact	Immediately flush with water for at least 15 minutes.
Skin Contact	Wash thoroughly with water. Remove contaminated clothing at once (launder before reuse); discard contaminated shoes.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	If conscious, dilute, inactive or absorb the ingested formaldehyde by giving milk, activated charcoal, or water.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Flammable.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in	Not available.

Presence of Various Substances

Fire Fighting Media and Instructions Dry chemical, carbon dioxide, "Alcohol" foam; water spray to cool fire-exposed containers and disperse vapors.

Protective Clothing (Fire) Wear self-contained breathing apparatus and protective clothing.

Special Remarks on Fire Hazards Vapor can travel distances to ignition source and flash back.
Thermal decomposition produces toxic fumes.

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 listed under Section VIII. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate it's source, if this can be done without risk. Take up and containerize for proper disposal. Comply with Federal, State, and local regulations on reporting releases.

Large Spill and Leak Same as above.

Section 7, Handling and Storage

Handling Wash thoroughly after handling. Do not take internally. Have eye wash and safety equipment available. Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing.

Storage Keep container tightly closed. Store away from heat, sparks, open flame.

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

Eyes Safety glasses with side shields must be worn at all times.
Body Impervious protective clothing must be worn to prevent skin contact.
Respiratory If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. Engineering and/or administrative controls should be implemented to reduce exposure. Material must be handled or transferred in an approved fume hood or with adequate ventilation.
Hands Neoprene, Nitrile or equivalent gloves.
Feet Impervious footwear should be worn to prevent skin contact.

Personal Protection in Case of a Large Spill All of the 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	Clear blue liquid.	Odor:	Pungent.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Blue.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	Not applicable.		
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	Soluble in water.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
Conditions of Instability	Heat, sparks, open flame.
Incompatibility with Various Substances	Data not available.
Hazardous Decomposition Products	Co _x .
Hazardous Polymerization	Data not available.

Section 11. Toxicological Information

Toxicity to Animals	LD50 Formaldehyde orl-mus: 42 mg/kg LC50: Not available.									
Chronic Effects on Humans	This product contains the following toxic chemicals 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>CAS #</th> <th>Chemical Name</th> <th>DeMinimis/SARA 313%</th> </tr> </thead> <tbody> <tr> <td>50-00-0</td> <td>Formaldehyde</td> <td>0.1</td> </tr> <tr> <td>67-56-1</td> <td>Methanol</td> <td>1.0</td> </tr> </tbody> </table> TSCA: This product is a "mixture".	CAS #	Chemical Name	DeMinimis/SARA 313%	50-00-0	Formaldehyde	0.1	67-56-1	Methanol	1.0
CAS #	Chemical Name	DeMinimis/SARA 313%								
50-00-0	Formaldehyde	0.1								
67-56-1	Methanol	1.0								
Other Toxic Effects on Humans										
Special Remarks on Toxicity to Animals	Tests on laboratory animals indicate formaldehyde may cause tumors and may produce adverse mutagenic and reproductive effects.									
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	UN1993, Flammable Liquids, n.o.s., (Acetone), 3, II
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	UN1993, Flammable Liquids, n.o.s., (Acetone), 3, II
ADR/RID Classification	Not controlled under ADR (Europe).
IMO/IMDG Classification	Not controlled under IMDG.
ICAO/IATA Classification	See IATA Regulations, UN1993, Flammable Liquids, n.o.s., (Acetone), 3, II

Section 15. Other Information

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