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BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information			
Common Name:	Rapid Fix™	Code:	0170
Supplier:	BBC Biochemical	MSDS#:	0170
Synonym:	None	Validation Date:	5/1/02
Trade Name:	None	Print Date:	5/1/02
Material Uses:	Tissue fixation for histologic studies	Responsible Name:	Dr. B
Manufacturer:	BBC Biochemical 8510 Cedarhome Dr. Stanwood, WA 98292 (800) 635-4477	In Case of Emergency	v: 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/TWA	OSHA PEL/STEL
 Water Formaldehyde 37% Selected Buffers 	7732-18-5 50-00-0 N/A	N/A .75 ppm N/A	N/A 2 ppm N/A

Section 3. Hazards Identification		
Physical State and Appearance	Colorless liquid.	
Emergency Overview	Not available.	
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.	
Potential Acute Health E	Effects	
Eyes	Irritation, may cause permanent damage.	
Skin	Irritation.	
Inhalation	Irritation to nose, throat and respiratory system.	
Ingestion	May cause allergic reaction; Irritation to throat and respiratory system.	
Potential Chronic Health Effects	n Formaldehyde is a strong sensitizer and may cause an allergic reaction.	
Medical Conditions	Respiratory 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 thoroughly with soap and 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, inactivate, or absorb the ingested formaldehyde by giving milk, activated charcoal,	
	or water. Get immediate medical attention.	
Notes to Physician	Not available.	

Section 5. Fire Fighting Measures	
Flammability of the Product	Not available.
Auto-ignition Temperature	Not available.
Flash Points	None.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in	Not available.

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Presence of Various	
Substances	
Fire Fighting Media	Wear self-contained breathing apparatus and protective clothing. Extinguish fire with CO ₂ , foam or
and Instructions	water.
Protective Clothing (Fire)	
Special Remarks on Fire	Thermal decomposition produces toxic fumes. Corrosive to most metals when dissolved
Hazards	in water.
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 as described under Waste Disposal Method. Comply with Federal, State, and local regulations on reporting releases.
Large Spill and Leak	Same as above.

Section 7, Har	ndling and Storage
Handling	Material must be handled or transferred in an approved fume hood or with adequate ventilation. 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. Exposur	e Controls / Personal Protection
Engineering Controls	Engineering and/or administrative controls should be implemented to reduce exposure.
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.
	OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under
	specified conditions (see your safety supplier).
Hands	Neoprene, Nitrile or equivalent.
Feet	Impervious protective footwear must be worn to prevent skin contact.
Personal Protection in	
Case of a Large Spill	Safety glasses with side shields, impervious protective clothing and footwear, Neoprene or Nitrile
	gloves, respirator if necessary.
Product Name	Exposure Limits
1)	
2)	
3)	
Consult Local authorities I	before acceptable exposure limits.

Section 9. Physica	l and Chemical Prop	erties	
Physical State and Appearance	Not applicable.	Odor	: Not available.
Molecular Weight	Not applicable.	Taste	: Not available.
Molecular Formula	Not applicable.	Colo	r: Colorless.
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	Miscible in water.	·	
Physical Chemical	Not available.		

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Comments

Coation 10 Stabili	the and Populisite
Section 10. Stabili	ty and Reactivity
Stability and Reactivity	Stable.
Conditions of Instability	Avoid contact with ignition sources.
Incompatibility with	Acids, oxidizers, strong alkalies. Contact with HCl may cause formation of the potent carcinogen,
Various Substances	bischloromethyl ether.
Hazardous Decomposition	on CO _x .
Products	
Hazardous	Not available.
Polymerization	
Section 11. Toxico	ological Information
Toxicity to Animals	LD50 (formaldehyde): orl-mus 42 mg/kg
ا	DeMinimis/SARA 313% 0.1
	LC50: Not available.
Chronic Effects on	Formaldehyde has the potential to cause cancer in humans. Repeated and prolonged exposure
	increases the risk. In humans, formaldehyde exposure has been associated with cancers of the lungs,
	nasopharynx and oropharynx, and nasal passages.
Other Toxic Effects on	
Humans	
Special Remarks on	Tests on laboratory animals indicate formaldehyde may cause tumors and may produce adverse
Toxicity to Animals	mutagenic and reproductive effects. Cited in Registry of Toxic Effects of Substances (RTECS).
Special Remarks on	Not available.
Chronic Effects on	
Humans	
Special Remarks on	Not available.
Other Toxic Effects	
on Humans	

Section 12. Ecolo	Section 12. Ecological Information	
Ecotoxicity	Not available.	
BODS and COD	Not available.	
Biodegradable/OEDC	Not available.	
Mobility	Not available.	
Toxicity of the	Not available.	
Products of		
Biodegradation		
Special Remarks on	Not available.	
The Products of		
Biodegradation		

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	Not available.			
Reportable Quantity				
Special Provisions for	Not applicable.			
Transport				
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

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Hazardous Material Information System (U.S.A.)	Health	2	National Fire Protection Association (U.S.A.)	Fire Hazard		
	Fire Hazard	1		Health 2 1 0 Reactivity Specific Hazard		
	Reactivity	0				
	Personal Protection					
References						
Other Special						
Considerations						
Validated by Dr. B on 5/1/02.						
Notice to Reader						
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assumes any liability whatsoever for the accuracy or completeness of the information contained herein.						