

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: Alcoholic Formalin 3:1 Concentrate	Code: 0500
Supplier: BBC Biochemical	MSDS#: 0500
Synonym: None	Validation Date: 2-19-09
Trade Name: None	Print Date: 2-19-09
Material Uses: Rapid Fixation	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/WA	OSHA PEL/STEL
1) Sodium Phosphate Monobasic	7558-80-7	None established	None established
2) Water	7732-18-5	None established	None established
3) Formaldehyde 37%	50-00-0	.75 ppm	2 ppm
4) Ethyl Alcohol	64-17-5	None established	None established
5) Sodium Phosphate Dibasic	7558-79-4	None established	None established

Section 3. Hazards Identification

Physical State and Appearance	Clear Liquid
Emergency Overview	Not available.
Routes of Entry	Eye Contact, inhalation, skin contact
Potential Acute Health 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	Formaldehyde as 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.
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	Respiratory conditions.

Section 4. First Aid Measures

Eye Contact	Immediately flush thoroughly 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. Get immediate medical attention.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Not available.
Auto-ignition Temperature	Avoid contact with ignition sources.
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 Presence of Various Substances	Thermal decomposition produces toxic fumes. Corrosive to most metals when dissolved in water.
Fire Fighting Media and Instructions	Wear self-contained breathing apparatus and protective clothing.
Protective Clothing (Fire)	
Special Remarks on Fire Hazards	Extinguishing Media: CO ₂ , foam, water
Special Remarks on Explosion Hazards	Thermal decomposition produces toxic fumes. Corrosive to most metals when dissolved in water.

Section 6. Accidental Release Measures

Small Spill and Leak	
Large Spill and Leak	

Section 7, Handling and Storage

Handling	Do not breath vapor or mist. Do not get into 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	Should be implemented to reduce exposure.
Personal Protection	Safety glasses with side shields must be worn at all times. Impervious protective clothing must be worn to prevent skin contact.
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 limits 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.
Hands	Neoprene, nitrile or equivalent.
Feet	
Personal Protection in Case of a Large Spill	Evacuate the area of all unnecessary personnel, eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Comply with Federal, State and local regulations on reporting releases.
Product Name	Exposure Limits
1)	
2)	
3)	
Consult Local authorities before acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Not applicable.	Odor:	Not available.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Not available.
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	Not available.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity	Not available.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Not available.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	
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. 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	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Flammable and Corrosive liquid. UN2924, n.o.s., (Ethanol and Formaldehyde), Hazard Class 8, Packing Group III
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Keep container tightly closed. Store away from heat, sparks, open flame.
TDG Classification	Flammable and Corrosive liquid.
ADR/RID Classification	ADR (Europe) Information not available
IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	See IATA Regulations, Flammable and Corrosive liquid. UN2924, n.o.s., (Ethanol and Formaldehyde), Hazard Class 8, Packing Group III

Section 15. Other Information

Label requirements			
Hazardous Material Information System (U.S.A.)	Health	2	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.