

## BBC Biochemical

## MATERIAL SAFETY DATA SHEET

**Section 1. Chemical Product and Company Information**

Common Name: Dietrich's Fixative	Code: 0210
Supplier: BBC Biochemical	MSDS#: 0210
Synonym: None	Validation Date: 2-20-09
Trade Name: None	Print Date: 2-20-09
Material Uses: Marine/Wildlife 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) Formaldehyde 37%	50-00-0	.75 ppm	2 ppm
2) Ethyl Alcohol	64-17-5		
3) Acetone	67-64-1		

**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	Flammab.e
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.

<b>Explosion Hazards in Presence of Various Substances</b>	Thermal decomposition produces toxic fumes. Corrosive to most metals when dissolved in water.
<b>Fire Fighting Media and Instructions</b>	Wear self-contained breathing apparatus and protective clothing.
<b>Protective Clothing (Fire)</b>	
<b>Special Remarks on Fire Hazards</b>	Extinguishing Media: CO <sub>2</sub> , foam, water
<b>Special Remarks on Explosion Hazards</b>	Thermal decomposition produces toxic fumes. Corrosive to most metals when dissolved in water.

### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.
<b>Large Spill and Leak</b>	Same as above.

### Section 7, Handling and Storage

<b>Handling</b>	Do not breath vapor or mist. Do not get into eyes, on skin or on clothing.
<b>Storage</b>	Keep container tightly closed. Store away from heat, sparks, open flame.

### Section 8. Exposure Controls / Personal Protection

<b>Engineering Controls</b>	Should be implemented to reduce exposure.
<b>Personal Protection</b>	Safety glasses with slide shields must be worn at all times. Impervious protective clothing must be worn to prevent skin contact.
<b>Eyes</b>	Safety glasses with side shields must be worn at all times.
<b>Body</b>	Impervious protective clothing must be worn to prevent skin contact.
<b>Respiratory</b>	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.
<b>Hands</b>	Neoprene, nitrile or equivalent.
<b>Feet</b>	
<b>Personal Protection in Case of a Large Spill</b>	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.
<b>Product Name</b>	<b>Exposure Limits</b>
1)	
2)	
3)	
<b>Consult Local authorities before acceptable exposure limits.</b>	

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Not applicable.	<b>Odor:</b>	Not available.
<b>Molecular Weight</b>	Not applicable.	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color:</b>	Not available.
<b>pH (1%/Water)</b>	Not applicable.		
<b>Boiling/Condensation Point</b>	Not applicable.		
<b>Melting/Freezing Point</b>	Not applicable.		
<b>Critical Temperature</b>	Not applicable.		
<b>Specific Gravity</b>	Not applicable.		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not applicable.		
<b>Volatility</b>	Not applicable.		
<b>Odor Threshold</b>	Not applicable.		
<b>Evaporation Rate</b>	Not applicable.		
<b>VOC</b>	Not available.		
<b>Viscosity</b>	Not available.		
<b>Ionicity (in water)</b>	Not available.		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Not available.		
<b>Physical Chemical Comments</b>	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 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 Liquid, Ethanol UN1993, Flammable Liquids n.o.s., (Ethanol), 3, II

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 Liquid, Ethanol UN1993, Flammable Liquids n.o.s., (Ethanol), 3, II

ADR/RID Classification ADR (Europe) Information not available.

IMO/IMDG Classification IMDG Information not available.

ICAO/IATA Classification See IATA Regulations Flammable Liquid, Ethanol UN1993, Flammable Liquids n.o.s., (Ethanol), 3, II

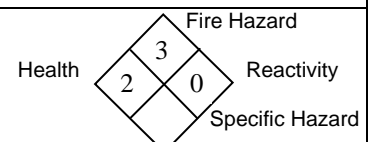
**Section 15. Other Information**

Label requirements

Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	3
Reactivity	0
Personal Protection	

National Fire Protection Association (U.S.A.)



**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.*