

## BBC Biochemical

## MATERIAL SAFETY DATA SHEET

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

Common Name: Formaldehyde 37%	Code: 0360
Supplier: BBC Biochemical	MSDS#: 0360
Synonym: None.	Validation Date: 2-20-09
Trade Name: None.	Print Date: 2-20-09
Material Uses:	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	<b>In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477</b>

**Section 2. Composition and Information on Ingredients**

Name	CAS#	% by Weight	Exposure Limits
1) Formaldehyde	50-00-0	37.0	0.75 ppm
2) Methanol	67-56-1	10-15	200 ppm
3) Water	7732-18-5	47-52	

**Section 3. Hazards Identification**

<b>Physical State and Appearance</b>	Colorless liquid with a pungent odor; may become cloudy or precipitous on standing especially in the cold.
<b>Emergency Overview</b>	Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed.
<b>Routes of Entry</b>	Not available.
<b>Potential Acute Health Effects</b>	<p><b>Eyes</b> May cause irritation with redness, itching, pain, blurred vision and mild lacrimation.</p> <p><b>Skin</b> Vapors or solutions may cause smarting, white discoloration, roughness, hardness, anesthesia and first degree burns.</p> <p><b>Inhalation</b></p> <p><b>Ingestion</b></p>
<b>Potential Chronic Health Effects</b>	Repeated ingestion of small amounts of formaldehyde may cause gastrointestinal irritation, vomiting and dizziness.
<b>Medical Conditions Aggravated by Overexposure</b>	
<b>Overexposure/Signs/Symptoms</b>	

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Wash eyes immediately with large amounts of water, occasionally lifting upper & lower lids until no evidence of chemical remains. Continue irrigating with Saline until Ph has returned to normal. Cover with Sterile bandages. Get medical attention immediately.
<b>Skin Contact</b>	Not available.
<b>Inhalation</b>	May cause irritation to nose and throat, may cause difficulty breathing & a burning sensation
<b>Ingestion</b>	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person.
<b>Notes to Physician</b>	Remove from exposure area to fresh air immediately. Perform artificial respiration. Keep warm and at rest. Treat symptomatically and supportively. Get medical attention immediately. Qualified medical personnel should consider administering oxygen.

**Section 5. Fire Fighting Measures**

<b>Flammability of the Product</b>	Not available.
<b>Auto-ignition Temperature</b>	420 °C

<b>Flash Points</b>	56 °C Closed Cup
<b>Flammable Limits</b>	Lower: 7% Upper: 70%
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence Of Various Substances</b>	Not available.
<b>Explosion Hazards in Presence of Various Substances</b>	Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to the flames until well after the fire is out. Stay away from the ends of the tanks. For massive fire in cargo areas, use unmanned hose holder or monitor nozzles; If this is impossible withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Isolate for ½ mile in all directions if tank or rail car or tank truck is involved in fire . Extinguish only if flow can be stopped; use flooding amounts of water as a fog. Solid streams may be ineffective. Cool containers with flooding amounts of water. Apply from as far a distance as possible. Avoid breathing vapors, keep upwind.
<b>Fire Fighting Media and Instructions</b>	Carbon Dioxide, dry chemical powder or appropriate foam
<b>Protective Clothing (Fire)</b>	
<b>Special Remarks on Fire Hazards</b>	Thermal decomposition produces highly toxic fumes. Use water spray to cool fire exposed containers. Wear self contained breathing apparatus and proper clothing to prevent contact with skin and clothing.
<b>Special Remarks on Explosion Hazards</b>	

### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Absorb spill with inert material, then place in a chemical waste container. Ventilate and wash spill site. Dispose of in a manner consistent with federal and local law.
<b>Large Spill and Leak</b>	Evacuate Area. Absorb spill with inert material, then place in a chemical waste container. Ventilate and wash spill site. Dispose of in a manner consistent with federal and local law.

### Section 7, Handling and Storage

<b>Handling</b>	Store in a cool dry well ventilates area out of direct sunlight. Keep away from heat and flame. Do not get in eyes, on skin or on clothing.
<b>Storage</b>	Store away from incompatible substances.

### Section 8. Exposure Controls / Personal Protection

<b>Engineering Controls</b>	
<b>Personal Protection</b>	
<b>Eyes</b>	Goggles and face shield
<b>Body</b>	Wear appropriate clothing to prevent skin exposure
<b>Respiratory</b>	Wear Air Filtering Respirator or Air Supplied Respirator
<b>Hands</b>	NIOSH Approved Gloves
<b>Feet</b>	
<b>Personal Protection in Case of a Large Spill</b>	
<b>Product Name</b>	<b>Exposure Limits</b>
1)	
2)	
3)	
Consult Local authorities before acceptable exposure limits.	

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Colorless liquid with a pungent odor; may become cloudy or precipitous on standing, especially in the cold.	<b>Odor:</b> Pungent
<b>Molecular Weight</b>	30.03 AMU	<b>Taste:</b> Not available.
<b>Molecular Formula</b>	Not applicable.	<b>Color:</b> Colorless
<b>pH (1%/Water)</b>	Not applicable.	
<b>Boiling/Condensation Point</b>	205 F ( 96 C)	
<b>Melting/Freezing Point</b>	5 F (-15 C)	
<b>Critical Temperature</b>	Not applicable.	
<b>Specific Gravity</b>	1.08	
<b>Vapor Pressure</b>	67-68 mmHg @ 20C.	
<b>Vapor Density</b>	1.03	
<b>Volatility</b>	100%	
<b>Odor Threshold</b>	1 ppm	
<b>Evaporation Rate</b>	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	Not available.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will Not Occur

### Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Known Carcinogen. This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Other Toxic Effects on Humans	
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	Not available.

### Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	BOD after 5 days: 60%
Biodegradable/OEDC Mobility	Not available. Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

### Section 13. Disposal Considerations

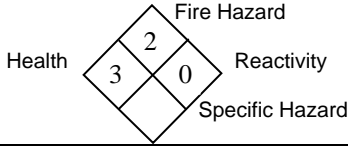
Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

### Section 14. Transport Information

DOT Classification	Corrosive, Formaldehyde Solution, 3, UN1198, PG III
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Corrosive, Formaldehyde Solution, 3, UN1198, PG III
ADR/RID Classification	ADR (Europe) Information not available.
IMO/IMDG Classification	IMDG Information not available.
ICAO/IATA Classification	Corrosive, Formaldehyde Solution, 3, UN1198, PG III

**Section 15. Other Information**

**Label requirements**

<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health</b>	3	<b>National Fire Protection Association (U.S.A.)</b>	
	<b>Fire Hazard</b>	2		
	<b>Reactivity</b>	0		
	<b>Personal Protection</b>			

**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.*