


1. Product and Company Identification

Product Name	Embalming Fluid
Synonyms	None
Recommended Use	Preserving Specimens
Company Identification	Bio Corporation 3910 Minnesota Street SW Alexandria, MN 56308
Telephone	Bio Corporation 1-800-222-9094 CHEMTREC 1-800-424-9300

2. Hazards Identification

GHS Classification	Eye irritation (category 2a), skin irritation (category 2), Acute toxicity (oral, dermal, inhalation) category 4, respiratory irritation (category 3), carcinogenicity (category 2)
Pictogram	
Signal Word	Danger Warning
Hazard Statement(s)	Harmful if swallowed. Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. Possible Carcinogen.
Precautionary Statement(s)	Read all safety information before use. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection. IF SWALLOWED: Call a POISON CONTROL CENTER IF ON SKIN (or hair): Wash with soap and water then rinse thoroughly. If skin irritation or rash occurs get medical advice or attention. IF INHALED: If breathing becomes difficult remove person to fresh air and keep comfortable for breathing. If concerned get medical attention. IF IN EYES: Rinse cautiously with water for a minimum of 15 minutes. Remove contact lenses, if present and easy to do so. If concerned get medical advice/attention. Keep container tightly closed. Store in a cool, dry, well-ventilated place. Dispose of contents/container in accordance with local/regional/national regulations.

3. Composition/Information on Ingredients**Mixture**

Ingredient Name	CAS Number	%
Water	N/A	> 90.5
Ethylene Glycol	107-21-1	< 5.0
Phenol	108-95-02	< 2.7
Formalin	50-00-0	< 1.8

4. First Aid Measures

Eye Contact	Rinse cautiously with room temperature water for at least 15 minutes. Remove contact lenses, if present and easy to do. Consult a physician if irritation persists.
Skin Contact	After contact with skin, wash with plenty of soap and water and seek medical advice if needed.
Inhalation	Move person to fresh air. Have them rest in a comfortable position and seek medical advice if needed.
Ingestion	Call Poison Control. Do NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. Firefighting Measures**Extinguishing Media**

Suitable	Water spray, dry chemical, carbon dioxide or appropriate foam.
Not Suitable	No data available.
Fire-fighting Methods and Protection	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire & Explosion Hazards	Fire or excessive heat may produce hazardous decomposition products.

6. Spill or Leak Procedures

Personal Precautions, Protective equipment and Emergency procedures	Avoid direct eye and skin contact, breathing vapors maybe irritating. Use gloves and eye protection, ventilate area of the spill, wash down with water or absorb with paper towels or granulated clay, then dispose of properly.
Environmental Precautions	Follow local state and federal regulations regarding releases.

7. Handling and Storage

Handling	Wear protective gloves and safety glasses. Avoid direct eye and skin contact. Do not eat, drink or smoke when using this product.
Storage	Keep containers closed. Store in a cool, dry, well-ventilated place.

8. Exposure Controls/Personal Protection

Ingredient Name	ACGIH TLV	OSHA PEL
Ethylene Glycol	100 mg/m ³	125 mg/m ³
Phenol	5 ppm	5 ppm - TWA
Formalin	0.37 mg/m ³	0.75 ppm – 8-hr TWA 2 ppm STEL (15 min)
Engineering Measures	Room ventilation might be needed to insure operator comfort and to keep levels below exposure limits.	

Hygiene Measures	Avoid contact with skin, eyes and clothing. Wash hands with soap and water after handling the product.
Respiratory	None should be needed if normal room conditions exist. If airborne concentrations are above the applicable exposure limits use NIOSH-approved respiratory protection.
Eyes and Face	Wear safety goggles or glasses while handling this product.
Skin	Wear gloves and protective clothing.

9. Physical and Chemical Properties

Appearance	Clear, colorless liquid
Odor	Medicinal, Pungent
Odor threshold	Not Determined
pH	6.9
melting /Freezing Point (°F)	Not Determined
Boiling Point / Range (°F)	Not determined
Flash Point	Not Determined
Evaporation rate (butyl acetate = 1)	Not determined
Flammability	Not determined
Upper / lower flammability	Not determined
Vapor Pressure (mm Hg, 20 °C)	Not determined
Vapor Density (air = 1)	Not determined
Relative Density	Not determined
Solubility	Soluble
Partition coefficient	Not determined
Auto ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined

10. Stability and Reactivity

Reactivity	Not Reactive
Chemical stability	Stable
Hazardous Reactions	None Known
Conditions to Avoid	None Known
Materials to Avoid	Strong Acids, Strong Oxidizing Agents
Decomposition Products	Carbon Monoxide, Carbon Dioxide, other Hydrocarbons
Hazardous Polymerization	Will Not Occur

11. Toxicological Information

Eye	May cause eye irritation.
Ethylene Glycol	Eyes - rabbit – mild eye irritation – 24 hr
Phenol	Eyes – rabbit – no data available
Formalin	Eyes - rabbit – eye irritation – 24 hr
Dermal	May be harmful if absorbed through skin.
Ethylene Glycol	Dermal LD50 – rabbit – 10,626 mg/kg
Phenol	Dermal LD50 – no data available Skin corrosion/irritation: no data available
Formalin	Dermal LD50 – rabbit – 270 mg/kg Skin corrosion/irritation: no data available

Inhalation	May be harmful if inhaled.
Ethylene Glycol	Inhalation LC50 – no data available
Phenol	Inhalation LC50 – no data available
Formalin	Inhalation LD50 – rat – 590 ppm – 4 hr
Oral	Harmful if swallowed.
Ethylene Glycol	Oral LD50 – rat – 4,700 mg/kg
Phenol	Oral LD50 – no data available
Formalin	Oral LD50 – rat – 800 mg/kg

Potential Chronic Health Effects

Carcinogenicity	No Data Available
Mutagenicity	No Data Available
Teratogenicity	No Data Available
Fertility Effects	No Data Available

12. Ecological Information

Eco toxicity	<p>Toxicity to fish:</p> <p>LC50 – oncorhynchus mykiss (rainbow trout) – 18,500 mg/l – 96 hr. (Ethylene Glycol)</p> <p>NOEC – pimephales promelas (fathead minnow) – 39,140 mg/l – 96 hr. (Ethylene Glycol)</p> <p>LD50 - oncorhynchus mykiss (rainbow trout) – 8.9-12.3 mg/l – 96 hr. (Phenol)</p> <p>LD50 – pimephales promelas (fathead minnow) – 11.5-50.9 mg/l – 96 hr. (Phenol)</p> <p>LC50 – fish – > 10 mg/l – 96 hr (Formalin)</p> <p>Toxicity to aquatic invertebrates:</p> <p>NOEC – daphnia – 24,000 mg/l – 48 hr. (Ethylene glycol)</p> <p>LC50 – daphnia magna (water flea) – > 41,000 mg/l – 48 hr. (Ethylene Glycol)</p> <p>EC50 – Daphnia magna (water flea) – 10.2-15.19 mg/l - 48 hr (Phenol)</p>
Biodegradability	<p>Concentration factor – 0.60 (Ethylene Glycol)</p> <p>Phenol – Biodegradable</p> <p>Formalin – Biodegradable</p>
Bioaccumulation	Concentration is not expected to occur.
Mobility	No Data
Other adverse effects	No other adverse effects known.

13. Disposal Considerations

Waste Disposal	Dispose of in accordance with all applicable Federal, State and Local Regulations.
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14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<u>US DOT 49 CFR 172.101</u>	<u>Non-bulk Shipments (Drums/Totes)</u>	<u>Bulk Shipments (Tank Trucks/Rail Cars)</u>
Proper Shipping Name	Embalming Fluid	Same
Hazard Class	N/A	Same
Identification Number	N/A	Same

Packing Group	N/A	Same
Reportable Quantities	N/A	Same

15. Regulatory Information

SARA Title III Section 313	This product is known to contain the following chemicals which are listed in 40 CFR 372.65 As chemicals requiring notification. This information must be included in all SDS's that are copied and distributed for this product. Ethylene Glycol – CAS# 107-21-1 Phenol – CAS# 108-95-02 Formalin – CAS# 50-00-0
TSCA – Toxic Substances Control Act	All components of this product are listed on the TSCA Inventory or are excluded from listing requirements.
RCRA – Resource Conservation and Recovery Act	The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

16. Other Information

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