

# MATERIAL SAFETY DATA SHEET

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## I. IDENTIFICATION

CHEMICAL FAMILY: EMBALMING FLUID (MIXTURE)

**TRADE NAME:** TRICHOLORESINOL

PRODUCT NUMBER: 01810

## II. HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS #	%	OSHA PEL TWA;STEL(15)	AGCIH TLV TWA;STEL(15)
Formaldehyde	50-00-0	24.0	.75ppm; 2ppm	0.3ppm; ceiling <sup>(1)</sup> A2 <sup>(2)</sup>
Methanol	67-56-1	3.4	200ppm; 250ppm Skin	200ppm; 250ppm Skin
Ethylene Glycol	107-21-1	1.24	50ppm Ceiling	
Phenol	108-95-2	1.3	5ppm (skin); NE	5ppm (skin); NE

(1) Ceiling – The concentration that should not be exceeded during the working day.

(2) Suspected human carcinogen.

## III. PHYSICAL DATA

BOILING POINT (At 760mm Hg)	210-212 <sup>o</sup> F	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.08
VAPOR PRESSURE (mm Hg)	17.0	MELTING POINT	N/A
VAPOR DENSITY (Air=1)	1.03	EVAPORATION RATE (Butyl Acetate=1)	1.8
SOLUBILITY IN WATER	Miscible	PERCENT VOLITILE	60.0
APPEARANCE & ODOR	Clear Red liquid. Characteristic pungent odor		

## IV. FIRE AND EXPLOSION DATA

### FLAMMABLE LIMITS IN AIR

FLASH POINT <sup>o</sup>F (Tag Closed Cup): **122**

**Lower: 6.0%**

**Upper: 37.0%**

EXTINGUISHING MEDIA: Dry chemical; Carbon Dioxide; "Alcohol" Foam; Water Spray

## V. HEALTH HAZARD DATA

### CHRONIC EFFECTS:

**MUTAGENICITY:** In vitro, formaldehyde is mutagenic (mutagenic activity in E. coli, Pseudomonas fluoresces, and Saccharomyces cervisiae). In vivo, no information.

**CARCINOGENICITY:** Formaldehyde is carcinogenic to animals (nasal cancer, lifetime inhalation study, and rats). Listed as an experimental animal carcinogen (IARC, NTP) and probable human carcinogen (IARC).

**REPRODUCTION:** Formaldehyde showed no evidence of reproductive effects in animal studies (mice, rats, dogs).

**OTHER:** Formaldehyde - no evidence of effects on liver, kidneys, nervous system or blood in 180 day studies of rats, monkeys, or hamsters.

**VI. HEALTH HAZARD DATA**

**EYE CONTACT:** Vapor causes severe irritation and tearing. Contact with liquid causes severe burns.

**SKIN CONTACT:** Liquid causes drying, cracking and scaling. Repeated contact causes hardening of the skin and may cause dermatitis and sensitization.

**INHALATION:** Causes irritation to nose, throat and respiratory tract. Bronchopneumonia and edema possible from breathing high concentrations.

**INGESTION:** May be fatal if swallowed. Severe inflammation of mouth, throat or stomach. Blurring of vision or blindness may occur.

HMIS RATINGS	
<b>HEALTH:</b>	<b>2</b>
<b>FIRE:</b>	<b>1</b>
<b>REACTIVITY:</b>	<b>0</b>
<b>SPECIAL:</b>	<b>0</b>

**EMERGENCY AND FIRST AID:**

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**SKIN CONTACT:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

**INHALATION:** Remove to fresh air. If not breathing give artificial respiration, then oxygen if necessary. Call a physician.

**INGESTION:** Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Immediately call a physician.

**VII. SPILL AND DISPOSAL INFORMATION**

**SPILL OR LEAK:** Ventilate area thoroughly - avoid breathing of vapor. Absorb liquid with vermiculite or dry earth. Flush area with plenty of water.

**WASTE DISPOSAL:** Dispose of residue in compliance with Federal, State and local regulations.

**VIII. REACTIVITY DATA:**

**STABILITY:** Stable---**Yes** Unstable--No

Materials and conditions to avoid: Caustics and strong oxidizing agents. High Temperatures.  
Hazardous Polymerization: May Occur--No **Will Not Occur--X**  
Hazardous Decomposition Products: Hydrogen, Formaldehyde, Carbon Monoxide, Carbon Dioxide.

**IX. PROTECTION INFORMATION:**

**Respiratory Protection:** Ventilation should be adequate to keep exposure limits below the Action Level (CFR 29 1910.1048) of 0.50 ppm. If limits are exceeded, a full-face NIOSH approved respirator should be used.

**Ventilation:** Local exhaust should be adequate to control exposure.

**Eye Protection:** Gas proof Goggles and Face Shield recommended.

**Protective Gloves:** Neoprene, Butyl or Polyvinyl Gloves.

**X. SPECIAL PRECAUTIONS:**

Keep containers closed. Store in cool, well-ventilated area away from open flame. Do not breathe vapor. Avoid prolonged or repeated contact with skin. Wash thoroughly with soap and water after handling.

**XI.** This mixture contains toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Formaldehyde	CAS number	050-00-0	Reportable Quantity	100 pounds
Methanol	CAS number	067-56-1	Reportable Quantity	5000 pounds
Ethylene Glycol	CAS number	107-21-1	Reportable Quantity	5000 pounds
Phenol	CAS number	108-95-2	Reportable Quantity	1000 pounds

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