

FRIGID FLUID COMPANY

Product: Pharos Cavity Fluid

Revision Date: 4/12/2016

1. CHEMICAL PRODUCT & COMPANY INFORMATION

Product Group: Formaldehyde Solutions, Flammable
 Product Identifier: Pharos Cavity Fluid
 General Use: Cavity Embalming Fluid

Frigid Fluid Co. 11631 W. Grand Ave. Norhtlake, IL 60164 (U.S.A.)
 Business Hours Phone: (847) 364 - 1590 FAX: (847) 593 - 6605
 Chemical Emergency only, 24 Hour / 7 Day Response Phone: (800) 535 - 5053 & (352) 323 - 3500 INFOTRAC

2. HAZARDS IDENTIFICATIONSignal Word: **DANGER**

EMERGENCY OVERVIEW: Flammable liquid and vapor, Flash Point = 137°F. Harmful or fatal if swallowed. Eye, skin, and respiratory tract irritant. May be a skin or respiratory tract sensitizer. May be absorbed through the skin. Trace amounts of Methanol in the body can cause permanent blindness or death. Both Phenol or the cresol derivative, by ingestion or absorbed through the skin may cause methemoglobin formation with cyanosis symptoms. Potential Cancer risk. **ERG 132**

POTENTIAL HEALTH EFFECTS:

INHALATION: Highly irritating to respiratory tract and cause inflammation to the nose, throat and lungs. High exposures to Formaldehyde fumes may cause tissue protein fixation, bronchopneumonia and edema. May cause an allergic reaction. Harmful amounts of Methanol vapors can be absorbed through the lungs.

EYE CONTACT: Will cause tissue protein fixation and severe chemical burns with irreversible corneal damage. High Formaldehyde vapor concentrations cause severe irritation and tearing. Product may be absorbed through tissues. Trace amounts of Methanol in the body may cause permanent blindness or death.

SKIN CONTACT: Causes tissue protein fixation, drying, cracking, scaling, and hardening. May cause an allergic dermatitis.

Product may be absorbed through tissues. Trace amounts of Methanol in the body may cause permanent blindness or death. Phenol can cause serious burns.

CHRONIC: The NTP, IARC, & OSHA list Formaldehyde as a potential carcinogen due to studies on laboratory animals. Formaldehyde is also mutagenic in vitro with several bacteria. Methanol shows limited mutagenic activity. The cresol derivative is not listed by the NTP or IARC, nor regulated by the EPA as a carcinogen by OSHA. The EPA has classified 1, 4-Chlorometacresol as Group D (not classifiable as to human carcinogenicity).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	% by Wt.	Exposure Limits (ppm or mg/kg)		ACGIH	
			OSHA TWA	PEL	TWA	STEL
Formaldehyde	50-00-0	32 - 37	0.75	2.0	0.3	N/Av
Methanol	67-56-1	8 - 12	200 (s)	250	200 (s)	250
1, 4-ChlorometaCresol	59-50-7	0 - 3	N/Est.	N/Est.	N/Est.	N/Est.
Phenol	108-95-2	0 - 3	5 (s)	15.6	5	250
N/Av = Not Available N/Est. = Not Established			(s) = Skin contact may significantly add to the overall exposure.			

4. FIRST AID MEASURES

Personal risk to First Aid providers: Patient may have hazardous contamination on tissues, garments and footwear. Use extreme caution while removing contaminated apparel and treating patient. Fumes originating from patient and apparel also presents a risk to emergency care providers and care areas. Place contaminated apparel inside appropriate airtight containers until after equipment and garment cleaning procedures have been completed.

INHALATION: Remove to fresh air. If breathing has stopped, avoid contact with contaminated areas; give Cardio Pulmonary Respiration (CPR) if needed. Get immediate medical assistance.

EYE CONTACT: Flush immediately with water or eye wash saline including underneath eyelids for at least 15 minutes. Get medical attention immediately.

SKIN CONTACT: Flush contact areas immediately using lots of water. Wear protective gloves and other apparel to remove contaminated clothing. Wash contacted skin areas thoroughly with soap and water. If contact area is significant, get medical attention promptly. Get medical attention if irritation persists longer than 6 hours.

INGESTION: Induce vomiting of conscious patient promptly by giving 2 glasses of water and pressing finger down throat. Get medical attention immediately.

5. FIRE FIGHTING INFORMATION AND MEASURES

FLASH POINT: 137°F

METHOD: Pensky-Martens

FLAMMABLE LIMITS: 7 - 73%

AUTOIGNITION TEMPERATURE: Not Available

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, Formaldehyde vapors, Formic Acid, Hydrochloric Acid, Phenol.

EXTINGUISHING MEDIA RECOMMENDED: Water, Dry chemical, Alcohol foam, CO₂. Use water spray to cool all fire exposed surfaces. Allow surrounding fire conditions dictate fire fighting media and method used.

FIRE FIGHTING INSTRUCTIONS: **ERG 132** Prevent exposure to product. Wear self-contained breathing apparatus and full protective equipment for all indoor and significant outdoor fires. Contain water run-off. Keep out of natural waterways.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL (less than 5 US gallons): Wear PPE apparel. Avoid flame, sparks, and heat. Where local laws permit, flush to sanitary sewer. May neutralize formaldehyde with weak or diluted caustic first. Otherwise, absorb on hardening compound (non-plaster type) or other absorbent and place in a covered container to contain fumes. Use appropriately with or as hardening compound, or have a licensed facility handle the disposal.

LARGE SPILL (more than 5 US gallons): Wear PPE apparel. Eliminate potential ignition sources. Dike spill and cover liquid surface with alcohol resistant foam to retard evaporation of hazardous fumes. Neutralize or absorb and contain as above. Dispose of at a licensed facility according to all applicable regulations.

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7. HANDLING AND STORAGE

HANDLING: Wear PPE apparel. Use in a well-ventilated area. Keep containers closed when not using. Rinse and agitate emptied fluid bottles three times with water before discarding. Use this rinse water in the arterial embalming fluid dilution water. Wash hands thoroughly after handling.

STORAGE: Keep containers closed when in use. Store in cool, well-ventilated areas ideally between 50°F and 100°F. Cooler temperatures may damage product quality. Empty containers may have residual hazardous liquid and fumes.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS: General or local exhaust is required to keep vapors below exposure limits.

RESPIRATORY PROTECTION: Preferably use a full face NIOSH/MSHA approved formaldehyde vapor cartridge or canister respirator if exposure limits are exceeded. Follow the OSHA guidelines in 29 CFR 1910.134 and 1910.1048.

SKIN PROTECTION: Use latex or other impervious gloves and an impervious gown (or impervious apron and sleeves).

EYE PROTECTION: If a half-face respirator is used, OSHA requires that vapor tight goggles must also be used. Either wear a full-face respirator or also use a face shield if splashes to the face are potentially expected.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range:	145 - 214°F	Melting Point:	Not Applicable
Vapor Pressure:	67 - 88 mm Hg	Vapor Density:	approximately 1
Solubility in Water:	100%	Specific Gravity:	1.07
Odor:	Pungent	% Volatile by Volume:	98+
Appearance:	Light pink, transparent liquid	pH:	Not Available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to avoid): Heat, sparks, flames.

INCOMPATIBILITY: Strong acids or alkalis, or oxidizing agents.

HAZARDOUS DECOMPOSITION: CO, CO₂, formaldehyde gas, Phenol, Formic Acid, Hydrochloric Acid.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

IDLH* level (Formaldehyde): 100 ppm (mg/kg)

IDLH* level (Methanol): 25,000 ppm (mg/kg); oral LD₅₀ (Methanol): 5,628 mg/kg (Rat); LDLO (Methanol): 340 mg/kg (human), 1 hour

LC₅₀ (Methanol): 145,000 mg/kg (Rat), dermal LD₅₀ level (Methanol): 15,840 mg/kg. (Rabbit).

IDLH* (Phenol): 250 ppm (m/kg); oral LD₅₀ (Phenol): 340 mg/kg (Rat); dermal LD₅₀ level (Phenol): 850 mg/kg; inhalation LC₅₀ (Rat): 310 mg/kg

*IDLH = Immediately Dangerous to Life & Health

12. ECOLOGICAL INFORMATION

No specific data for this product. (Methanol) Aquatic toxicity Rating - TLM 96: >1000. Methanol is rapidly degradable. Methanol is not likely to bioaccumulate, is mobile in soil. Methanol is totally miscible with water in any ratio. Phenol is totally miscible in any ratio. (Phenol) LC₅₀ (Fish) = 5 - 12 mg / 96 hour; EC₁₀ (Bacteria) = 10 - 30,000 mg / L. NOTE: Formaldehyde, Methanol and Phenol will each affect or kill many bacteria types that are found in natural waterways and wastewater treatment plants. Keep out of natural waterways.

13. DISPOSAL CONSIDERATIONS

See Section 6. Waste liquid concentrate material would be classified as Code D001 (ignitability). Rinse with agitation emptied fluid bottles three times using water and add these rinses to arterial embalming fluid dilution water before discarding containers.

14. TRANSPORTATION INFORMATION

U.S. DOT (Ground transport): ORM-D Consumer Commodity for the standard pint container via ground within North America per the NAFTA Treaty, or

UN1198, Formaldehyde Solutions, Flammable class 3 / 8, P.G. III

ICAO / IATA (Air Transport): This product must be manifested as a Dangerous Good for all packaging unit sizes.

UN1198, Formaldehyde Solutions, Flammable class 3 / 8, P.G. III

5 Liter per package maximum on Passenger Aircraft; 60 Liter per package maximum on Cargo Aircraft

IMO / IMDG (Ocean Transport): This product must be manifested as a Dangerous Good for all packaging unit sizes.

UN1198, Formaldehyde Solutions, Flammable class 3 / 8, P.G. III

15. REGULATORY INFORMATION

EPCRA, Sec. 313 listed materials:

Formaldehyde CAS #50-00-0, 32% - 37%;

Methanol CAS #67-56-1, 8% - 12%

1, 4-ChlorometaCresol CAS #59-50-7, 0% - 3%

Phenol CAS #108-95-2, 0% - 3%

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

NFPA HAZARD RATING: Health 3(s), Fire 2, Reactivity 0 **ERG 132**

KEY: (4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Minimal)

(s) = Skin contact may significantly add to the overall exposure hazard effects.

NOTICE: The information herein is presented in good faith and believed to be accurate and complete as of the effective date shown above. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities with this product comply with all federal, state, and local laws.