

MATERIAL SAFETY DATA SHEET

FRIGID

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PRODUCT NAME: CELL GUARD 28 NATURAL

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: Cell Guard 28 Natural Arterial
General Use: Arterial Embalming Fluid

Frigid Fluid Company, 11631 West Grand Avenue, Northlake, Illinois, 60164
Emergency Phone: 1-800-424-9300
Business-hours Phone: 1-708-836-1215

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Percentage by Wgt.	Exposure Limits (ppm)			
			OSHA		ACGIH	
			TWA	STEL	TLV	STEL
Methyl alcohol	67-56-1	5-10	200 (s)	250	200 (s)	250
Formaldehyde	50-00-0	28	0.75	2	----	0.3 (c)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Poisonous if swallowed. Eye, skin and respiratory tract irritant. Potential cancer hazard. May be a skin or respiratory tract sensitizer. May be absorbed by the skin. Flammable.

POTENTIAL HEALTH EFFECTS:

INHALATION: Highly irritating to upper respiratory tract. May cause inflammation of the linings of the nose, throat and lungs. High exposures may cause bronchopneumonia and edema. May cause an allergic reaction.

EYE CONTACT: May cause severe burns with irreversible damage. High vapor concentrations cause severe irritation and tearing.

SKIN CONTACT: Causes drying, cracking, scaling and hardening of the skin. May cause an allergic dermatitis.

INGESTION: Poisonous if swallowed. Causes severe irritation of the mouth, throat and stomach. Can lead to severe stomach pains, followed by vomiting, diarrhea, and possible loss of consciousness. Blindness and death may occur.

CHRONIC: The NTP and OSHA list formaldehyde as a carcinogen due to studies on laboratory animals. IARC lists formaldehyde as a carcinogen. Formaldehyde is also mutagenic in vitro with several bacteria. Methyl alcohol shows limited mutagenic activity.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration and call a physician.

EYE CONTACT: Flush with water 15 minutes. Call a physician immediately.

NE = Not established

NA = Not available

N/A = Not applicable

(s) = skin absorption contributes significantly to the overall exposure

(c) = exposure ceiling

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SKIN CONTACT: Wash with soap and water after removing contaminated clothing. Call a physician if irritation persists.

INGESTION: Call a physician immediately. Do not induce vomiting unless so instructed by a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: 174°F (79°C) Method: Pensky-Martens

Flammable Limits: 6 to 73%

Autoignition Temperature: Not available.

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂

EXTINGUISHING MEDIA: Dry chemical, foam, CO₂. Use water spray to cool fire exposed surfaces

FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus and full protective equipment for all indoor and outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: Eliminate ignition sources. Neutralize with Frigid's Spill Guard and/or flush to sewer. Can also use an appropriate absorbent and place absorbed material in closed container. Dispose of in accordance with all federal, state and local regulations.

7. HANDLING AND STORAGE

HANDLING: Use in a well-ventilated area away from heat, sparks or flames. Keep containers closed. Rinse containers three times with water, adding rinsings to arterial dilution water.

STORAGE: Store in well-ventilated areas between 50 and 100°F (10 to 38°C).

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: General exhaust or local exhaust ventilation is required to keep vapors below the PELs.

RESPIRATORY PROTECTION: Use NIOSH-approved organic vapor cartridge or canister respirator if PELs are exceeded. Follow the OSHA guidelines in 29 CFR 1910.1048

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

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EYE PROTECTION: Use Chemical splash goggles. A face shield should also be used if splashes to the face are expected. If the PELs are exceeded, vapor tight goggles must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 146°F (63°C) **MELTING POINT:** Not Applicable
VAPOR PRESSURE: NE **VAPOR DENSITY:** about 1
SOLUBILITY IN WATER: 100% **SPECIFIC GRAVITY:** < 1
ODOR: pungent **% VOLATILE by VOLUME:** > 90
APPEARANCE: reddish, pink liquid

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. Avoid ignition sources.
INCOMPATIBILITY: Strong oxidizers, acids, alkalis.
HAZARDOUS DECOMPOSITION PRODUCTS: Formaldehyde gas
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Formaldehyde: LD₅₀ 800mg/kg (100mg/kg from some sources) (oral, rat), 270mg/kg (skin, rabbit); LC₅₀ 590mg/kg (rat); IDLH: 100 ppm, 20 ppm (30 minutes). Methyl alcohol: LD₅₀ 5628mg/kg (oral, rat), 20 ml (skin, rabbit); LC₅₀ 64,000 ppm (4H, rat).

12. ECOLOGICAL INFORMATION

Prevent run-off from reaching natural waterways, including septic systems.

13. DISPOSAL CONSIDERATIONS

See Section 6.

14. TRANSPORT INFORMATION

DOT: Consumer Commodity, ORM-D (by US ground transportation)

15. REGULATORY INFORMATION

EPCRA (SARA Title III), Sec. 313 listed materials: Formaldehyde, CAS No. 50-00-0, 30%; Methanol, CAS No. 67-56-1, 5-10%

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

16. OTHER INFORMATION

NFPA rating: Health 2, Fire 3, Reactivity 0 (4 = extreme, 0 = insignificant).

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