

MATERIAL SAFETY DATA SHEET (MSDS)

CELL GUARD 22

SECTION I

EMERGENCY TELEPHONE #

Trade Name: CELL GUARD 22 1-800 424-9300

Chemical Name: NA

Manufacturer's Name and phone #: Frigid Fluid Company 1-708 836-1215

Address: 11631 W. Grand Ave. Chicago, IL 60164

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	% by Wt.	Exposure Limits (PPM)			
			OSHA		ACGIH	
			TWA	STEL	TWA	STEL
Formaldehyde	50-00-0	22	0.75	2	0.3	NA
Methyl Alcohol	67-56-1	5-10	200(s)	250	200(s)	250
Diethylene Glycol	111-46-6	3-7	NE	NE	NE	NE
Sorbitol	50-70-4	3-7	NE	NE	NE	NE

SECTION III - 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. Combustible.

Potential Health Effects:

Inhalation: Highly irritating to upper respiratory tract. May cause inflammation of linings of 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 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 or death may occur.

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

SECTION IV - FIRST AID MEASURES

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

Eye Contact: Flush with water for 15 minutes. Call a physician immediately.

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 the physician.

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SECTION V - FIRE FIGHTING MEASURES

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Flammable Properties:

- Flash Point: 174°F
- Flammable Limits: 6 to 73%
- Autoignition Temp: NA
- Method: Pensky-Martens

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 significant outdoor fires.

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SECTION VI - ACCIDENTAL RELEASE MEASURES

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Small Spill: Eliminate ignition sources. Absorb with dustless-type hardening compound, cloth, paper, etc. And place in a covered container. Have incinerated or use appropriately with hardening compound.

Large Spill: Use same procedures as above and save for incineration as hazardous waste.

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SECTION VII - HANDLING AND STORAGE

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

Storage: Store in cool, well-ventilated areas between 50 and 100°F.

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SECTION VIII - EXPOSURE CONTROL/PERSONAL PROTECTION

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Engineering Controls: General exhaust or local exhaust ventilation is required to keep vapors below the PEL's.

Respiratory Protection: Use a NIOSH/MSHA approved formaldehyde cartridge or cannister respirator if PEL's are exceeded. Follow the OSHA guidelines in 29 CFR 1910.134 and 1910.1048.

Skin Protection: Use latex or other impervious gloves, and impervious gown (or impervious apron and sleeves).

Eye Protection: Use chemical splash goggles. A face shield should also be used if splashes to the face are expected. If the PEL's are exceeded, vapor tight goggles must be used.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range:	146°F	Solubility in water:	100%
Vapor Pressure:	NE	Specific Gravity:	1.09
Melting Point:	NA	% Volatile by volume:	>90
Vapor Density:	about 1	Appearance:	reddish-pink liquid, pungent odor

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: (conditions to avoid) None

Incompatibility: Strong acids, alkalies, oxidizing agents.

Hazardous Decomposition Products: Formaldehyde gas, HCl

Hazardous Polymerization: Will not occur.

Toxicological Information: IDLH: (formaldehyde) 100 ppm. No data on product.

Ecological Information: Prevent run-off from reaching natural waterways.

Disposal Considerations: See section VI

Transport Information: Formaldehyde, solutions, 9, UN 2209, PG III, or Consumer Commodity, ORM-D

Regulatory Information: EPCRA (SARA Title III), Sec. 313 listed materials: Formaldehyde (CAS #50-00-0)(22%)
Methanol (CAS #67-56-1)(5-10%)

Other Information: NE= Not established
NA= Not applicable
NFPA rating: Health 2, Fire 2, Reactivity 0 (4= extreme, 0= insignificant)
(s)= skin absorption contributes significantly to the overall exposure.