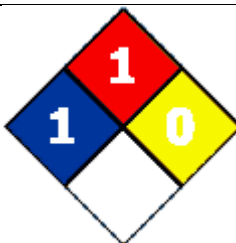


Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>0</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	0	Fire Hazard	1	Reactivity	0		
Health Hazard	0								
Fire Hazard	1								
Reactivity	0								

Issuing Date 27-Mar-2009

Revision Date 27-Mar-2009

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Cryopak Flexible Ice Blanket

Recommended Use Freezer pack.

Supplier Address

Cryopak Industries (2007) ULC
1053 Derwent Way, Delta, BC, V3M
5R4
CA
Phone:6045157977
Fax:6045157978
Contact:Aleksandra Borisova
Contact Phone:6045157977
Emergency Phone: 6042501198

Company Emergency Phone Number 6042501198

2. HAZARDS IDENTIFICATION

Emergency Overview

This product is an article. No exposure to hazardous chemicals is expected to occur during intended product use.
Misuse of the product may result in exposure to hazardous chemicals.
WARNING! This product contains a chemical known in the State of California to cause cancer

Appearance Clear, colorless solution

Physical State Liquid.

Odor Water

Potential Health Effects

Principle Routes of Exposure Inhalation, Skin contact, Eye contact.

Acute Toxicity

Eyes

May cause slight irritation

Skin

No known hazard in contact with skin.

Inhalation

Not an expected route of exposure.

Ingestion

Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

No known effect.

Aggravated Medical Conditions

None known

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	99-100
3,5,7-Triaza-1-azoniatricyclodecane-1-(3-chloro-2-propenyl)-, chloride	4080-31-3	0-0.05
Sodium Bicarbonate	144-55-8	0-0.02
Methenamine	100-97-0	0-0.005
1,3-Dichloropropene	542-75-6	0-0.001
Dichloromethane	75-09-2	0-0.001

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Flash Point	Not determined.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Hazardous Combustion Products	Carbon oxides
Explosion Data	
Sensitivity to Mechanical Impact	Not sensitive.
Sensitivity to Static Discharge	Not sensitive.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health Hazard 1	Flammability 1	Stability 0	Physical and Chemical Hazards -
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with eyes.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Keep in suitable and closed containers for disposal. In case of rupture: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. In case of rupture: Avoid contact with skin, eyes and clothing.
Storage	Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,3-Dichloropropene 542-75-6	TWA: 1 ppm S*	(vacated) TWA: 1 ppm (vacated) TWA: 5 mg/m ³ (vacated) S*	TWA: 1 ppm TWA: 5 mg/m ³
Dichloromethane 75-09-2	TWA: 50 ppm	TWA: 25 ppm (vacated) TWA: 500 ppm (vacated) STEL: 2000 ppm (vacated) Ceiling: 1000 ppm STEL: 125 ppm	IDLH: 2300 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures	Showers Eyewash stations Ventilation systems
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Personal Protective Equipment

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

No special protective equipment required.
No special protective equipment required.
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless solution.	Odor	Water.
Odor Threshold	No information available	Physical State	Liquid
pH	7	Autoignition Temperature	No information available
Flash Point	No information available	Boiling Point/Range	No information available
Decomposition Temperature	No information available	Explosion Limits	No information available
Melting Point/Range	No information available	Solubility	No information available
Flammability Limits in Air	No information available	Vapor Pressure	No data available
Water Solubility	Liquid	VOC Content	Not applicable
Evaporation Rate	No information available		
Vapor Density	No data available		
Partition Coefficient: n-octanol/water			

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	None known based on information supplied
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	Carbon oxides.

Hazardous Polymerization

Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Product Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
3,5,7-Triaza-1-azoniatricyclodecane-1-(3-chloro-2-propenyl)-, chloride	500 mg/kg (Rat)	565 mg/kg (Rabbit)	-
Sodium Bicarbonate	4220 mg/kg (Rat)	-	-
Methenamine	9200 mg/kg (Rat)	-	-
1,3-Dichloropropene	57 mg/kg (Rat)	220 mg/kg (Rabbit) 336 mg/kg (Rat)	2.7 mg/L (Rat) 4 h 5.2 mg/L (Rat) 1 h
Dichloromethane	2000 mg/kg (Rat)	-	76000 mg/m ³ (Rat) 4 h

Chronic Toxicity**Chronic Toxicity**

No known effect.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
1,3-Dichloropropene	A3	Group 2B	Reasonably Anticipated	X
Dichloromethane	A3	Group 2B	Reasonably Anticipated	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects

None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

. Ecotoxicity effects of component substances.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium Bicarbonate	h EC50 120 650 mg/L	LC50 8250 - 9000 mg/L Lepomis macrochirus 96 h		EC50 = 2350 mg/L 48 h
Methenamine		LC50= 49800 mg/L Pimephales promelas 96 h		EC50 = 36000 mg/L 48 h
1,3-Dichloropropene	h EC50 96 4.95 mg/L	LC50= 4.1 mg/L Pimephales promelas 96 h LC50= 4.5 mg/L Oncorhynchus mykiss 96 h LC50= 6.1 mg/L Lepomis macrochirus 96 h	EC50 = 112 mg/L 5 min EC50 = 71.6 mg/L 30 min	EC50 = 0.09 mg/L 48 h EC50 = 6.15 mg/L 48 h
Dichloromethane	h EC50 96 >660 mg/L	LC50= 193 mg/L Lepomis macrochirus 96 h	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	EC50 = 140 mg/L 48 h

Chemical Name	Log Pow
1,3-Dichloropropene	2.3
Dichloromethane	1.25

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
1,3-Dichloropropene - 542-75-6	waste number U084			U084
Dichloromethane - 75-09-2	waste number U080	Included in waste streams: F001, F002, F024, F025, F039, K009, K010, K156, K157, K158		U080

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Dichloromethane - 75-09-2	Category I - Volatiles		Toxic waste; (waste number F025); Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
1,3-Dichloropropene	Toxic; Ignitable
Dichloromethane	Toxic

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Exempt
DSL	Does not Comply
EINECS/ELINCS	Complies
ENCS	Does not Comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372: .

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
3,5,7-Triaza-1-azoniatricyclodecane-1-(3-chloro-2-propenyl)-, chloride	4080-31-3	0-0.05	1.0
1,3-Dichloropropene	542-75-6	0-0.001	0.1
Dichloromethane	75-09-2	0-0.001	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
1,3-Dichloropropene				X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methenamine	100-97-0	0-0.005		Group I		
1,3-Dichloropropene	542-75-6	0-0.001	Present	Group II		
Dichloromethane	75-09-2	0-0.001	Present	Group I		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
1,3-Dichloropropene	100 lb	
Dichloromethane	1000 lb	

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
1,3-Dichloropropene	542-75-6	Carcinogen
Dichloromethane	75-09-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methenamine		X			
1,3-Dichloropropene	X	X	X	X	X

International Regulations

Mexico - Grade

Minimum risk, Grade 0

Chemical Name	Carcinogen Status	Exposure Limits
Dichloromethane		Mexico: TWA= 100 ppm Mexico: TWA= 330 mg/m ³ Mexico: STEL= 1740 mg/m ³ Mexico: STEL= 500 ppm

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Issuing Date	27-Mar-2009
Revision Date	27-Mar-2009
Revision Note	No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet