

Material Safety Data Sheet (MSDS)

Abbreviations used on this MSDS:

ACGIH = American Conference of Governmental Industrial Hygienists, CAN = Canada, CAS = Chemical Abstracts Service Division of the American Chemical Society, CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act (US), DOT = US Department of Transportation, IARC = International Agency for Research on Cancer, ICAO = International Civil Aviation Organization, IMO = International Maritime Organization, LC₅₀ = Lethal concentration by inhalation to cause death in 50% of a test population of animals, LD₅₀ = Lethal dose by oral or dermal contact to cause death in 50% of a test population of animals, mmHG = millimetres of mercury, MSDS = Material Safety Data Sheet, NFPA = National Fire Protection Association (US), °C = temperature in degrees celsius, OSHA = Occupational Safety and Health Administration (US), pH = indicates acidity < 7 or alkalinity > 7, ppm = parts per million, PEL = Permissible Exposure Limit, SARA = Superfund Amendment and Re-authorization Act (US), TDG = Transportation of Dangerous Goods (CAN), TLV = Threshold Limit Value, TSCA = Toxic Substances Control Act (US), UN = United Nations, US = United States, WHMIS = Workplace Hazardous Materials Information System (CAN)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier			
Instant Cold Pack II			
Product Use Relieve muscle pain, severe bruises or hematoma, trauma, swelling, and acute tendinitis			
Manufacturer's Name Cryopak Industries (2007) ULC		Supplier's Name	
Street Address 1053 Derwent Way		Street Address	
City Delta	Province BC	City	Province
Postal Code V3M 5R4	Emergency Telephone Number 613.996.6666 (CANUTEC) Use in case of a dangerous goods emergency	Postal Code	Emergency Telephone Number
Date MSDS Prepared September 10, 2009	Supersedes June 25, 2007	MSDS Prepared by V.G.Scott & Associates Consulting	Telephone Number 1.888.405.1188

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD₅₀ of Ingredient (specify species and route)	LC₅₀ of Ingredient (specify species)
Urea	30 - 60	57-13-6	Considered a nuisance dust	Not applicable

SECTION 3 - HAZARDS IDENTIFICATION

Routes of Entry				
<input checked="" type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin absorption	<input checked="" type="checkbox"/> Eye contact	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
Emergency Overview Product in powder form is a nuisance dust.				
WHMIS Symbols Not regulated under WHMIS.				
Potential Health Effects Product may irritate eyes and skin upon contact but is unlikely to injure tissue.				

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SECTION 4 - FIRST AID MEASURES

Skin Contact Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.
Eye Contact If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.
Inhalation If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
Ingestion First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

SECTION 5 - FIREFIGHTING MEASURES

Flammability <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	
Means of Extinction Use extinguishing media suitable for type of surrounding fire.		
Flash point (°C) and Method No data	Upper Flammability Limit (% by volume) No data	Lower Flammability Limit (% by volume) No data
Autoignition Temperature (°C) No data	Explosion Data – Sensitivity to Impact No data	Explosion Data – Sensitivity to Static Discharge No data
Hazardous Combustion Products Not applicable		
Fire Fighting Instructions Use flooding quantities of water for surrounding materials. Keep unauthorized persons out of area. Fire Fighters should wear positive-pressure self-contained breathing apparatus (SCBA) and full fire protective clothing.		

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures Small spill: Use appropriate tools or equipment to clean up spilled liquid material. Small quantities can be flushed to sanitary sewer. Large Spill: Prevent additional material from being spilled. Keep from entering sewers, watercourses, wells, etc.
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SECTION 7 - HANDLING AND STORAGE

Handling Procedures and Equipment

The use of respiratory equipment is recommended when exposure exceeds established exposure limits. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

Storage Requirements

Keep containers tightly closed. Use and store in cool, dry, well-ventilated areas. Store only in approved containers.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits

10 mg/m³ for dust

☒ ACGIH TLV

☐ OSHA PEL

☐ Other (Specify)

Specific Engineering Controls (such as ventilation, enclosed process)

Use appropriate personal protective equipment and clothing to avoid skin contact with liquid product. If spilled product dries out avoid inhaling the dust.

Personal Protective Equipment

☒ Gloves

☐ Respirator

☒ Eye

☒ Footwear

☐ Clothing

☐ Other

If checked, specify type

Use impervious gloves. Wear safety glasses or safety goggles if there is a risk of splash and spillage. Use suitable waterproof footwear.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	Odour and Appearance Liquid	Odour Threshold (ppm) Odourless
Specific Gravity Not available	Vapour Density (air = 1) Not available	Vapour Pressure (mmHG) Not available
Evaporation Rate Not available	Boiling Point (°C) Not available	Freezing Point (°C) Not available
pH Not available	Coefficient of Water/Oil Distribution Not applicable	Solubility in Water Easily soluble in water.

PRODUCT IDENTIFIER: Instant Cold Pack II**SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Nitric acid or hypochlorites (bleach) react with urea to form unstable and potentially explosive compounds. Avoid contact with strong oxidizing agents.
Reactivity, and Under What Conditions? Very slightly to slightly corrosive to aluminum, zinc and copper. Non-corrosive to steel and stainless steel (304 and 316). Incompatible with magnesium, zinc, sodium, potassium and other finely powdered metals.	
Hazardous Decomposition Products If involved in a fire, oxides of carbon and nitrogen may be generated. Exposure to heat may generate ammonia and ammonium cyanates.	
Hazardous polymerization Will not occur.	

SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Acute Exposure Use good practice to avoid contact with eyes, skin and clothing with all materials. Wash thoroughly after handling. No acute effects are expected.	
Effects of Chronic Exposure Chronic exposure is not expected to produce any health effects.	
Irritancy of Product Contact with skin and eyes may be irritating.	
Skin Sensitization Not expected	Respiratory Sensitization Not expected
Carcinogenicity – IARC No definitive information is available.	Carcinogenicity – ACGIH No definitive information is available.
Reproductive Toxicity No definitive information is available.	Teratogenicity No definitive information is available.
Embryotoxicity No definitive information is available.	Mutagenicity No definitive information is available.
Name of Synergistic Products/Effects None known	

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SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Low toxicity for humans or animals under normal conditions of use.

Aquatic Marine Toxicity: Will release ammonium ions. Ammonia is a toxic hazard to fish. Avoid spills or releases to watercourses. Will disperse with current. Release to watercourses may cause effects downstream from point of release. This material is not listed as a marine pollutant in the International Maritime Dangerous Goods Code.

Biochemical Oxygen Demand: Not available

Chemical Oxygen Demand: Not available

Toxicity of the Products of Degradation: The product itself and its products of degradation are not harmful under normal conditions of use.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal or Recycling

Recycle to process in manufacturing if possible. Recover and place material in a suitable container for intended use or disposal. Call for assistance on disposal. Ensure disposal is in compliance with federal, provincial and local regulations.

SECTION 14 - TRANSPORT INFORMATION

Special Shipping Information Not classified as hazardous.		UN Number Not applicable
TDG Not applicable	DOT Not applicable	
IMO Not applicable	ICAO Not applicable	

SECTION 15 - REGULATORY INFORMATION

WHMIS Classification Not applicable	OSHA This material, if discarded as produced is not a Resource Conservation and Recovery Act (RCRA) "listed" or "characteristic" or hazardous waste.
SARA This product is not listed in SARA Section 313.	TSCA Not determined.

SECTION 16 - OTHER INFORMATION

CERCLA/SUPERFUND, 40 CFR 117,302: this product contains no Reportable Quantity (RQ) Substances.