



SOP#	HRP.002.028
Revision:	000
Issue Date:	07/14/11

Title: MSDS Medi-Pak™ Instant Cold Compress - CANADA	
Prepared By: KAY MEISINGER	Page 1 of 4

MCKESSON MEDICAL-SURGICAL

MATERIAL SAFETY DATA SHEET					
Complies with OSHA's Hazard Communication Standard (29 CFR 1910.1200)					
INFORMATION TELEPHONE NUMBER: 800-334-3646 (M-F 8am to 5pm, CST)		REORDER NO.: 4"X6":16-9701 5"X7":16-9702 6"X9":16-9703			
PRODUCT NAME (as it appears on label)	Medi-Pak™ Instant Cold Compress		DESCRIPTION: For temporary relief of minor pain and swelling caused by sprains, strains, contusions, minor burns, toothaches and insect bites.		
MARKETED BY:	Cypress Medical Products 1202 S. Route 31 McHenry, IL 60050		DATE PREPARED:	01/02/09	
HEALTH HAZARDS:	Dry chemical of cold compress is an eye and skin irritant. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.				
PHYSICAL HAZARDS:	Dry chemical is an oxidizer. Oxidizers can support combustion. Contact may increase flammability of other materials. Avoid contact with clothing and other combustible material				
PHYSICAL FORM:	Solid/Liquid				
APPEARANCE:	White solid in water bag				
ODOR:	None				
HMS RATING (concentrate)	HEALTH: 1 REACTIVITY: 3 FLAMMABILITY: 0 PERSONAL: 0				
HAZARD RATING: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme A = Safety Glasses B = Safety Glasses & Gloves					
SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS					
HAZARDOUS COMPONENTS (Specific Chemical Identity: Common Names)	CAS #'s	OSHA PEL	ACHIH TLV	Other Limits Recommended	% (Optional)
Ammonium Nitrate	6484-52-2				78
Magnesium	10377-60-3				2
Dolomite	16389-88-1				20
N/A = Not Applicable N/E = Not Established N/D = Not Determined N/L = Not Listed					
Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.					
SECTION 3 - HAZARDS IDENTIFICATION (Potential Health Effects)					
EYE:	Eye irritant. Contact may cause stinging, watering, redness, and swelling.				
SKIN:	Skin irritant. Contact may cause redness, itching, burning and skin damage. No harmful effects from skin absorption have been reported.				
INHALATION (BREATHING):	Low to moderate degree of toxicity by inhalation.				
INGESTION (SWALLOWING):	Low to moderate degree of toxicity by ingestion.				
SIGNS AND SYMPTOMS:	Effects of overexposure may include irritation of the nose, throat and digestive tract; coughing, nausea, vomiting, diarrhea, abdominal pain, breathing difficulties, and blood disorders (methemoglobinemia).				
CANCER:	No data available				
TARGET ORGANS:	No data available				
DEVELOPMENTAL:	Inadequate data available for this material.				
OTHER COMMENTS:	This material contains nitrate salts. Nitrates may be reduced by intestinal bacteria to nitrite. When absorbed, nitrites may result in effects on the blood (methemoglobinemia) and blood vessels (vasodilating and a fall in blood pressure). Symptoms of toxicity may include headache, fainting, fatigue, cyanosis, confusion, irregular heartbeats, and possible respiratory paralysis. Pre-existing heart disease may be aggravated by exposure to nitrates.				

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PRE-EXISTING MEDICAL CONDITIONS:	Conditions aggravated by exposure may include heart, blood vessel and skin disorders.
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SECTION 4 - FIRST AID MEASURES

Eyes:	Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.
SKIN:	Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap or water. If irritation or redness develops, seek medical attention.
INHALATION (BREATHING):	If respiratory symptoms or other symptoms of exposure 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 (SWALLOWING):	If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with the head down and do not give anything by mouth. If victim is conscious and alert and ingestion occurred within the last hour, vomiting should be induced for ingestion of large amounts (more than 5 ounces in an adult) under direction from a physician or poison center. If possible, do not leave victim unattended and observe closely for adequacy of breathing.
NOTE TO PHYSICIANS:	Nitrates in large doses may cause significant vasodilation and hypotension. Pre-existing ischemic heart disease may be aggravated by these effects. In large ingestions nitrates may cause methemoglobinemia. Methemoglobinemia should be suspected if cyanosis occurs. Methylene blue (1-2 mg/kg I.V. over several minutes) is an effective antidote for symptomatic methemoglobinemia

SECTION 5 - FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES:	Flash Point: none
	OSHA Flammability Class: Not applicable
	LEL/UEL: No data
	Auto ignition Temperature: No data
UNUSUAL FIRE & EXPLOSION HAZARDS:	Oxidizer. The dry chemical of this material is an oxidizer and may increase inflammability of any combustible substance. It is the nature of oxidizers to provide their own oxygen source; smothering a fire may be ineffective. Nitrate salts support combustion under certain conditions. Ammonium nitrate is capable of detonation if heated under confinement or if subjected to strong shocks. Organic or other easily oxidizable matter can sensitize it to a more readily explodable state. Do not allow product to evaporate to dryness, especially in contact with combustible materials.
EXTINGUISHING MEDIA:	Use water only. Do not use dry chemical, carbon dioxide or foam.
FIREFIGHTING INSTRUCTIONS:	For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk.

SECTION 6- ACCIDENTAL RELEASE MEASURES

IF SPILLED/RELEASED:	The dry chemical if this material is an oxidizer. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended. Stay upwind and away from spill/release. Notify person down wind of spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spills material; from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify appropriate federal, state, and local agency. Immediate cleanup of any spills is recommended.
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SECTION 7- HANDLING AND STORAGE

HANDLING & STORAGE:	HANDLING: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see section 2 and 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks or other sources of ignition. They may explode and cause injury or death. Container should be disposed in an
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	<p>environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA Regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, welding, or other contemplated operations.</p> <p>STORAGE: Use and store this material in cool, dry, well ventilated areas away from heat and all sources of ignition. Post area "No Smoking or Open Flame." Solutions is corrosive to copper, copper alloys, lead, and zinc. Store to avoid contact with incompatible materials such as ordinary combustibles, flammable liquids, greases and those materials, including other oxidizers that could react with oxidizers or catalyze its decomposition (see Section 10). Prohibit accumulation of combustible waste in storage areas. Combustible construction materials that may be in contact with oxidizers shall be protected with a compatible coating to prevent impregnation of the combustible materials by the oxidizers. Protect container(s) against physical damage.</p>
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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	If current ventilation practices are not adequate to minimize exposure, additional ventilation or exhaust systems may be required.
RESPIRATORY PROTECTION:	A NIOSH/MSHA approved air purifying respirator with a N95 filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2). Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
SKIN PROTECTION:	The use of gloves impermeable to the specific material handled is advised to prevent skin contact; possible irritation, absorption, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and / or arm covers may be necessary.
EYE/FACE PROTECTION:	Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
OTHER PROTECTIVE EQUIPMENT:	A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20 degrees Celsius (68 degrees Fahrenheit) and 760 mm Hg (1 atm)

FLASH POINT:	None
FLAMMABLE/EXPLOSIVE LIMITS (%):	LEL/UEL: No data
AUTO IGNITION TEMPERATURE:	No data
APPEARANCE:	White solid in water bag
PHYSICAL STATE:	Solid/Liquid
ODOR:	None
pH:	No data
VAPOR PRESSURE (mm Hg):	No data
BOILING POINT:	No data
FREEZING/MELTING POINT:	No data
SOLUBILITY IN WATER:	100%
SPECIFIC GRAVITY:	Approx 1.3
EVAPORATION RATE (nBuAc=1):	No data

SECTION 10 - STABILITY & REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions of storage and handling. Dry chemical is an oxidizer and may promote combustion in other materials.
CONDITIONS TO AVOID:	This material may be an oxidizer. Do not heat above 250 degrees Fahrenheit. Do not let dry chemical or solution dry or crystallize in contact with organic, reactive, or combustible materials (see Sections 7)
INCOMPATIBLE MATERIALS:	Avoid contact with reactive, combustible, or organic materials, such as wood, grain, organic chemicals, acids, corrosive liquids, sulfur, flammable liquids, charcoal, coke, cork, or sawdust. Avoid contact with other oxidizers. Contact with alkaline materials may liberate ammonia.

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HAZARDOUS DECOMPOSITION PRODUCTS:	Material will not burn, but if involved in a fire, oxides of nitrogen may be generated. Exposure to heat may liberate ammonia fumes.
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HAZARDOUS POLYMERIZATION:	Will not occur.
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SECTION 11 - TOXICOLOGICAL INFORMATION	
No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.	

SECTION 12 – ECOLOGICAL INFORMATION	
Not Applicable	

SECTION 13 - DISPOSABLE CONSIDERATIONS	
This material, if discarded as produced, may be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. To assure proper disposal, consult with state and local regulations and disposal authorities.	

SECTION 14 - TRANSPORT INFORMATION	
Hazard Class or Division: Not classified as hazardous	

SECTION 15 - REGULATORY INFORMATION	
This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372	

COMPONENT	Cas number
Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing)	7446-41-7
Water dissociable nitrate compounds	None

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5) None Known

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

EPA (CERCLA) Reportable Quantity: None

SECTION 16 - OTHER INFORMATION

ISSUE DATE: 01/02/09

PREVIOUS ISSUE DATE: 07/23/04

PRODUCT CODE: Various

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The product information contained in this Material Safety Data Sheet was collected from various supplier sources. All product claims and specifications are those of Cypress Medical Product LLC's suppliers and may not have been independently verified by Cypress. Cypress is not responsible for errors or omissions in, or completeness of, the product information. CYPRESS DISCLAIMS ALL WARRANTIES OF ANY KIND OR NATURE, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF THE SUITABILITY OR FITNESS OF ANY PRODUCT FOR A PARTICULAR PURPOSE