

# Material Safety Data Sheet

Product Name	Instant Cold Pack
Product Use	Cold Physical Therapy

## Section I

Manufacturer's Name: Sifang Medical Corp.	Emergency Telephone number: 0086 574 8784 4588
Address: #501, No.43 Cangsong Road Ningbo, 315012 China	Telephone Number for Information: 0086 574 8784 4588
	MSDS Prepared Date: 2007.8.6
	MSDS Prepared By: Lin M.Hua

## Section II- Hazard Ingredients

Hazardous Component:	Ammonium Nitrate
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## Section III-Physical/Chemical Characteristics

Boiling Point: 350 F	Specific Gravity: 1.725
Vapor Pressure: N/A	Melting Point: N/A
Solubility in Water: Complete	
Appearance and Odour: White, Odourless, Solid Chemical with Water bag	

#### Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) <b>Not Applicable</b>	Flammable Limits <b>N/A</b>	LEL <b>N/A</b>	UEL <b>N/A</b>
Extinguishing Media  Flood and cool hot nitrate with straight stream nozzles. Do not use sialt water. Water is effective in desensitizing molten or contaminated nitrate.			
Special Fire Fighting Procedures  Immediately ventilate structure. Do not use spray or fog nozzles. Use straight stream nozzles to cool and desensitize molten nitrate. Respiratory protection required for fire fighting personnel. When any fire is burning out of control and water cannot safely be applied to desensitize, nitrate fire crews should withdraw a safe distance and use unmanned fire lines			
Unusual Fire and Explosion Hazards  Decomposes into flammable and hazardous nitrogen oxides. As an oxidizer, it yields nitrous oxide readily to stimulate the combustion of organic matter or ether fuel. In unconfined fire situations, ammonium nitrate fertilizer creates a self-limiting effect as the endothermic effect of its dissociation into ammonia and nitric acid absorbs the heat produced by the exothermic decomposition of nitrous oxide and water vapour. Ammonium nitrate fertilizer is not explosive. Detonation potential under confinement and high temperatures, or when heated with contaminants such as organic or carbonaceous material, metallic powders, acids, or combination with copper produces tetramine cupric hydrate, a salt with high sensitivity. Zonal decomposition a possibility.			

#### Section V - Reactivity Data

Stability	Unstable	<b>X</b>	Conditions to Avoid
	Stable		Heat and fire. Insensitive to impact in dry form
Incompatibility (Materials to Avoid) <b>Chemical from damaged cold pack should not be mixed with acetic acids, metals, chlorides, organic matter, phosphorous, sodium, potassium, sulphur, inorganic zinc, copper. Copper represents the greatest contamination hazard</b>			
Hazardous Decomposition or Byproducts <b>Hazardous oxides of nitrogen.</b>			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	<b>X</b>	Heat and fire

## Section VI - Health Hazard Data

Route(s) of Entry:	Eye contact; Skin contact; Inhalation; Ingestion
Health Hazards ( <i>Acute and Chronic</i> )	
<p>Dry chemical of cold pack may be an eye irritant. Dry chemical of cold pack is a skin irritant with prolonged contact. Dry chemical of cold pack has slight to moderate toxicity when ingested, Minimal hazard of inhalation under normal conditions. No health hazards when dry chemical and water are in solution.</p>	
Carcinogenicity: N/A	
Signs and Symptoms of Exposure	
<p>Eye contact with dry chemical may result in eye discomfort and aggravation.. Skin contact with dry chemical may result in mechanical discomfort and rash with prolonged contact. Swallowing large amounts of dry chemical may have serious or even fatal effects. Inhalation of large amounts of dry chemical dust may have serious or even fatal effects.</p>	
Medical Conditions Generally Aggravated by Exposure	
Not Available	
Emergency and First Aid Procedures (for dry chemical of the Cold Pack)	
Eyes	
<p>If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. Seek immediate medical attention.</p>	
Skin	
<p>Wash with mild soap and water.</p>	
Swallowing	
<p>DO NOT induce vomiting. If person is conscious, dilute stomach contents with 48 oz. of water and seek medical attention. Contact poison control for advise.</p>	
Inhalation	
<p>Exposure to thermal decomposition – evacuate person to fresh air, give respiratory support. Seek immediate medical attention.</p>	

**Section VII - Precautions for Safe Handling and Use**

<p>Steps to Be Taken in Case Material is Released or Spilled</p> <p><b>Sweep up material for disposal</b></p>
<p>Waste Disposal Method</p> <p><b>Dispose product in trash</b></p>
<p>Precautions to Be taken in Handling and Storing</p> <p>Avoid contact with incompatible materials. Avoid exposure to heat sources. Avoid contamination with organic matter. Do not store near food stuff.</p>
<p>Other Precautions</p> <p><b>None</b></p>

**Section VIII - Control Measures**

<p>Respiratory Protection (<i>Specify Type</i>)</p> <p>Adequate to control dust</p>		
Ventilation	Local Exhaust	Special
	<b>Not Required</b>	<b>Not Required</b>
	Mechanical ( <i>General</i> )	Other
	<b>Not Required</b>	<b>Not Required</b>
Protective Gloves	Eye Protection	
<b>Conventional work gloves</b>	<b>Safety glasses with side shields</b>	
<p>Other Protective Clothing or Equipment</p> <p><b>Not Required</b></p>		
<p>Work/Hygienic Practices</p> <p><b>Standard</b></p>		