

SAFETY DATA SHEET

Instant Cold Compress with ammonium nitrate

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SECTION 1 – IDENTIFICATION

Product Identifier: Instant Cold Compress with ammonium nitrate
Manufacturer Name: Shanghai Intco Medical Supply Co., Ltd.
Manufacturer Address: No. 1299, Hubin Rd, Fengxian Shanghai, CHINA 201417
Manufacturer Phone Number: +86 021 57451159-683
Emergency Phone Number: +86 021-57451159
Recommended Use: Physical cooling

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: None

Signal Word: None

Hazard Statement: None



Irritant (eyes and skin)
Respiratory Tract Irritant



Oxidizer

Precautionary statement: None

Hazards not otherwise classified:

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: Low to moderate degree of toxicity by inhalation.

Ingestion: 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 urea.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include heart, blood vessel and skin disorders.

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Percent (by weight)	CAS No.	EC No.	MITI No.
Ammonium nitrate	48-56%	6484-52-2	229-347-8	-
Water	44-51%	7732-18-5	231-791-2	-

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: 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: 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 the 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 – FIRE-FIGHTING MEASURES

Unusual Fire & Explosion Hazards: Oxidizer. The dry chemical of this material is an oxidizer and may increase flammability 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 equipment: Use water only. Do not use dry chemical, carbon dioxide or foam.

Fire Fighting 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

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personnel out. Stop spill/release 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.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

The dry chemical of 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 downwind 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 spilled 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 agencies. Immediate cleanup of any spill is recommended.

SECTION 7 – HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29 CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 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, brace, 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 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.

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". Solution is corrosive to copper, copper alloys, lead and zinc. Store to avoid contact with incompatible materials such as ordinary combustibles, flammable liquids, grease and those materials that could react with the oxidizer 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.

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.

Personal Protective Equipment (PPE):

Respiratory: 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.

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Skin: 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: 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 AND CHEMICAL PROPERTIES

Physical Form: Solid/liquid

Appearance: White solid in water bag

Upper/lower flammability or explosive limits: No data

Odor: None

Vapor pressure: No data

Odor threshold: N/A

pH: No data

Specific density: 1.3

Melting point/freezing point:

Solubility in water: 100%

Initial boiling point and boiling range: No data

Flash point: None

Evaporation rate (nBuAc=1): No data

Auto-ignition temperature: No data

Viscosity: No data

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of storage and handling. Dry chemical is an oxidizer and may promote combustion in other materials

Stabilizers needed to maintain chemical stability: None

Safety issues that may arise should the product change in physical appearance: N/A

Possibility of chemical reaction or polymerization: Will not occur.

Conditions to avoid: This material may be an oxidizer. Do not heat above 250°F. Do not let dry chemical or solution dry or crystallize in contact with organic, reactive or combustible materials (see Section 7).

Incompatible Materials: Avoid contact with reactive, combustible or organic materials such as wood, grain, organic chemicals, acids, corrosive liquids, sulfur, flammable liquids, chlorates, permanganates, finely divided materials, charcoal, coke, cork or sawdust. Avoid contact with other oxidizers. Contact with alkaline materials may liberate urea.

Hazardous Decomposition Products: Material will not burn, but if involved in a fire, oxides of nitrogen may be generated. Exposure to heat may liberate urea fumes.

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SECTION 11 – TOXICOLOGICAL INFORMATION

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.

SECTION 12 – ECOLOGICAL INFORMATION

Ecological toxicity: N/A

Ecological degradation: N/A

Biology degradation: N/A

Environmental: N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste from residue/unused are ignitable, hazardous waste number D001. Contact supplier if guidance is required. Dispose of wastes in accordance with Federal, State and local codes. Ensure spilled product does not enter drains, sewers, waterways or confined spaces.

SECTION 14 – TRANSPORT INFORMATION

DOT (US):

UN Number: 1942

Class: Limited quantity

Packing Group: III

Marine pollutant: No

Poison Inhalation Hazard: No

As supplied, this product can be shipped as a limited quantity in the United States. The UN number placed within the square-on-point border must appear on the package.

IMDG (US):

UN Number: 1942

Class: 5.1

Packing Group: III

EMS-No: F-H, S-Q

Marine pollutant: No

IATA:

UN Number: 1942

Class: 5.1

Packing Group: III

SECTION 15 – REGULATORY INFORMATION

US Federal Information:

TCSA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) Inventory.

OSHA: This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA Title III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material

SARA Title III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: None. If outer containers are damaged and leaking: Reactive hazard; Immediate (Acute) health hazard; Chronic Health Hazard.

SARA Title III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

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New Jersey Labeling Requirements: This product contains the following substances required to be disclosed on product labeling: Ammonium nitrate (CAS #6484-52-2); Water (CAS #7732-18-5).

California Proposition 65: To the best of our knowledge, this product does not contain any known chemicals to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 – OTHER INFORMATION

SDS Preparation Date: 2015-05-29

SDS Last Revision Date: 2012-11-08

Notice to reader:

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