



Safety Data Sheet

INSTANT COLD PACKS - CALCIUM AMMONIUM NITRATE

Section 1. Identification

Product Identifier	INSTANT COLD PACKS - CALCIUM AMMONIUM NITRATE		
Synonyms	MDS137000 ; MDS138000 ; MDS139000 ; MDS148000 ; MDS148010 ; TAA137000 ; MSD_SDS0186		
Manufacturer Stock Numbers	MDS148010 ; MDS148000 ; MDS139000 ; MDS138000 ; MDS137000 ; TAA137000		
Recommended use	Cold application for cold therapy.		
Uses advised against	Bruises. Swelling. Pain. Strains.		
Manufacturer Contact Address	Medline Industries, Inc. One Medline Place Mundelein, IL, 60060 USA		
	Phone (800) 633-5463	Emergency Phone (800) 424-9300 CHEMTREC	Fax (847) 643-4436
	Website www.Medline.com		

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - INHALATION - Category 5 ACUTE TOXICITY - ORAL - Category 5 EYE DAMAGE/IRRITATION - Category 2B SKIN CORROSION/IRRITATION - Category 3
Signal Word	Warning
Pictogram	
Hazard Statements	Causes eye irritation Causes mild skin irritation

	May be harmful if inhaled May be harmful if swallowed
Precautionary Statements	
Response	Call a poison center/doctor/if you feel unwell. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Call a POISON CENTER or doctor/if you feel unwell If skin irritation occurs: Get medical advice/attention.
Prevention	Wash affected area thoroughly after handling.
Storage	N/A
Disposal	N/A
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	N.A.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
7732-18-5	Water	40% - 60%
15245-12-2	Nitric acid, ammonium calcium salt	40% - 60%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General Advice:	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Primary Routes of Entry:	Eye Skin Ingestion Inhalation
Eye Contact:	Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses, if worn. If irritation persists, seek medical attention.
Skin Contact:	Take off contaminated clothing and shoes. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Inhalation:	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance.
Ingestion:	If swallowed, call a physician immediately if you feel unwell. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.
Most important symptoms and effects, both acute and delayed:	No information available.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Non-flammable liquid. Use flooding quantities of water.
Unsuitable Extinguishing Media	N.D.
Special Fire Fighting Procedures:	Do not use dry chemical, CO ₂ , foam or halogenated-type extinguishers.
Unusual Fire and Explosive Hazards:	Avoid storage with reducing agents. Avoid any contamination of this material as it is reactive and any contamination is potentially hazardous.
Hazardous Decomposition Products:	Nitrogen oxide.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contact with skin or eyes. Wear protective clothing, gloves, safety glasses and dust respirator.
Spill/Leak Procedures:	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 7. Handling and Storage

Protective Measures:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.
Measures to prevent fire:	Keep away from heat/sparks/open flames/hot surfaces. Take precautionary measures against static discharges.
Measures to prevent aerosol and dust generation:	N.A.
Other Precautions:	Wash hands and face after using of the substances. Replace the contaminated clothing immediately. In addition to use mentioned in the first parts, unforeseen other specific and uses.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Water	N/A	N/A	N/A
	Nitric acid, ammonium calcium salt	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Apron, Face Shield			
Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.			
Respiratory Protection:	Use appropriate respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter Type: Low boiling organic solvent, Type AX, Brown, conforming to EN371.			
Skin Protection:	Wear suitable protective clothing.			
Eye Protection:	Wear a tightly fitting chemical safety goggles.			
Other protective equipment:	None required.			

Section 9. Physical and Chemical Properties

Physical State	N.D.
Color	Granules and liquid
Odor	N.D.
Odor Threshold	N.D.
Solubility	Soluble in water
Partition coefficient Water/n-octanol	N.D.
VOC%	N/A
Viscosity	N.D.
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	N.D.
FP Method	N.D.
Ph	N.A.
Melting Point	N.D.
Boiling Point	N.D.
Boiling Range	N.D.
LEL	N/A
UEL	N/A
Evaporation Rate	N.D.
Flammability	N.D.
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	N.D.
Vapor Density	N.D.

Molecular Formula: Water
H₂O Calcium Ammonium Nitrate
CaH₄N₄O₉

Section 10. Stability and Reactivity

Stability:	Stable under proper operation and storage conditions.
Conditions to avoid:	Melts and decomposes when strongly heated.
Incompatibility (Materials to Avoid)	Organic materials.
Incompatibility (Materials to Avoid):	Oils or charcoals. Reducing agents.
Hazardous Decomposition or Byproducts	Nitrogen oxide.
Hazardous Polymerization	No polymerization.

Section 11. Toxicological Information

Precautionary Statements:	If medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye:	N.D.
Skin:	N.D.
Inhalation:	N.D.
Ingestion:	N.D.
Target Organs:	N.D.
Primary Routes of Exposure:	Inhalation. Percutaneous.
Potential Effects of Chronic Exposure:	N.D.
Irritation/Sensitization:	N.D.
Teratogenicity:	Based on available data, the classification criteria not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	Based on available data, the classification criteria are not met.

Section 12. Ecological Information

Ecotoxicity:	No information available.
Biodegradability:	No information available.
Bioaccumulation:	No information available.
Mobility in soil:	No information available.
Other adverse effects:	No information available.

Section 13. Disposal

Waste Disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
-----------------	--

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not Regulated
DOT Classification	Not Regulated
Packing Group	Not Regulated

Section 15. Regulatory Information

SARA 311/312:	N.A.
SARA 302:	N.A.
SARA 313:	N.A.
TSCA:	N.A.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
State Regulations:	N.A.

Section 16. Other Information

Revision Date 5/27/2015

Legend

N.A. - Not Applicable
N.E. - Not Established
N.D. - Not Determined

HMIS (U.S.A.): Health Hazard 2

HMIS (U.S.A.): Flammability 0

HMIS (U.S.A.): Reactivity 0

National Fire Protection Association (U.S.A): Health Hazard 2

National Fire Protection Association (U.S.A): Flammability 0

National Fire Protection Association (U.S.A): Reactivity 0

Additional Information

The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees