



Safety Data Sheet

INSTANT HOT PACK - MAGNESIUM SULFATE

Section 1. Identification

Product Identifier	INSTANT HOT PACK - MAGNESIUM SULFATE		
Synonyms	MDS138005 ; MDS137050 ; MDS139005 ; MDS149000 ; MDS149010 ; MSD_SDS0045		
Manufacturer Stock Numbers	MDS149010 ; MDS137050 ; MDS138005 ; MDS149000 ; MDS139005		
Recommended use	Hot application for hot therapy.		
Uses advised against	N/A		
Manufacturer Contact Address	Medline Industries, Inc. One Medline Place Mundelein, IL, 60060 USA		
	Phone	Emergency Phone	Fax
	(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436
	Website		
	www.Medline.com		

Section 2. Hazards Identification

Classification	No OSHA Hazard Classifications Applicable - Category N.A.
Signal Word	
Pictogram	
Hazard Statements	No OSHA Hazard Classifications Applicable
Precautionary Statements	
Response	N/A
Prevention	N/A
Storage	N/A
Disposal	N/A
Ingredients of unknown toxicity	0%

Hazards not Otherwise
Classified

No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
7487-88-9	Sulfuric acid magnesium salt (1:1)	10% - 30%
7732-18-5	Water	70% - 90%

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:	Rinse mouth with plenty of water, make victim drink plenty of water. Do not induce vomiting. Get medical attention if more than 10 grams has been swallowed.
Most important symptoms and effects, both acute and delayed:	No information available.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Non-flammable liquid. In case of fire, use Dry Chemical, Alcohol-resistant foam and Carbon Dioxide (CO ₂)
Unsuitable Extinguishing Media	N.D.
Special Fire Fighting Procedures:	None known
Unusual Fire and Explosion Hazards	Combustion of vapor and liquid may produce carbon monoxide, carbon dioxide and other hazardous gases.
Hazardous combustion products:	Magnesium oxide, sulfur oxides.

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.
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.
Measures to prevent aerosol and dust generation:	N.A.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Sulfuric acid magnesium salt (1:1)	N/A	N/A	N/A
	Water	N/A	N/A	N/A
Personal Protective Equipment	Goggles			
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.			
Eye Protection:	Wear a tightly fitting chemical safety goggles.			
Skin Protection:	Wear suitable protective clothing.			
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	1
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 Magnesium Sulfate Anhydrous
MgO₄S

Section 10. Stability and Reactivity

Stability: Stable under proper operation and storage conditions.
Conditions to avoid: Keep away from heat. Open flame. Sparks.
Incompatibility (Materials to avoid): N.D.
Hazardous Decomposition or Byproducts: Magnesium oxide. Sulfur oxides.
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:	Based on available data, the classification criteria are not met.
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.
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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 5/29/2015

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

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

HMIS (U.S.A.): Flammability

HMIS (U.S.A.): Reactivity

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

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

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

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