



# MATERIAL SAFETY DATA SHEET

MSDS: 705  
REV. DATE: 1/05  
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## Section I - PRODUCT IDENTIFICATION

### ZEE MEDICAL, INC.

22 Corporate Park  
Irvine, CA 92606  
800/841-8417  
Emergency Phone No. (CHEMTREC): 800/424-9300

TRADE NAME: **Instant Ice Pack**

#2323, 2324  
#2353,2354

## Section II - HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>%</u>	<u>CAS NUMBER</u>	<u>PEL, OSHA (mg/M<sup>3</sup>)</u>	<u>TLV, ACGIH (mg/M<sup>3</sup>)</u>
Solid Granules: Ammonium Nitrate	90	6484-52-2	N/E	N/E
Liquid Portion: Water	100	7732-18-5	N/E	N/E

## Section III - PHYSICAL DATA

Boiling Point: Decomposes at 410 F      Specific Gravity: 1.7 (after mixing in ice pack)  
Vapor Pressure: (mm Hg): N/A      Melting Point: N/A  
Vapor Density: N/A      Evaporation Rate: N/A  
Solubility In Water: Complete  
Appearance and Odor: White, granular solid, no odor. Liquid portion is clear colorless liquid (water).

## Section IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Extinguishing Media: Carbon dioxide, dry chemical or water

Special Fire Fighting Procedures: Fire may release yellow or brown fumes. Wear self-contained breathing apparatus and evacuate area downwind from fumes.

Unusual Fire and Explosion Hazards: can detonate if heated in confinement. Can be sensitized by certain organic matter to a readily explodable state. Mixed solution in used ice pack is not an explosion hazard.

NFPA Hazard Rating: Health: 1 Flammability: 0 Reactivity: 3 Special: N/A  
HMIS Hazard Rating: Health: 1 Flammability: 0 Reactivity: 3

Hazard Index: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal

**Section V - HEALTH HAZARD DATA**

Primary Routes of Entry: Skin contact, eye contact, ingestion

Health Hazards: Prolonged skin contact after mixing may cause skin irritation. Ingestion of large quantities of granules or mixed liquid may cause nausea and vomiting.

Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Emergency First Aid Procedures: Eye or skin contact: Immediately flush affected area with large amounts of water. If redness or irritation persists, contact a physician. Ingestion: Contact a physician or poison control center. Inhalation: Exposure to yellow or brown fumes from fire requires medical attention.

**Section VI - REACTIVITY DATA**

Stability: May explode if granules are heated with organic matter. Mixed solution in used ice pack is not an explosion hazard.

Hazardous Decomposition Products: Nitrogen dioxide and nitrogen tetroxide.

Hazardous Polymerization: Will not occur

Incompatibilities: Organic matter, chlorides, bleach, powdered metals, reducing agents.

**Section VII - SPILL AND DISPOSAL PROCEDURES**

Spill: Sweep up spills immediately and transfer to a suitable waste disposal container. Flush area with water. Dispose of material immediately if contaminated with organic matter.

Disposal: Dispose of in accordance with local, state and federal regulations.

**Section VIII - SAFE HANDLING AND USE INFORMATION**

Respiratory Protection: If respiratory protection is required, use a NIOSH approved particulate respirator meeting 42 CFR 84 requirements.

Ventilation: General mechanical.

Protective Equipment: Safety goggles.

**Section IX - SPECIAL PRECAUTIONS**

Store in well ventilated area with automatic sprinkler system.

Separate from all organic materials, flammable liquids, oil, charcoal, coke, cork, sawdust, etc.

N/A = Not applicable

N/E = Not established