

Section 1 - Product Identification

ZEE MEDICAL, INC.

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800/841-8417

Emergency Phone No. (CHEMTREC): 800/424-9300

Product Name: Instant Ice Pack

#2323, 2324, 2353, 2354

Section 2 - Information on Ingredients

<u>INGREDIENT</u>	<u>%</u>	<u>CAS NUMBER</u>	<u>PEL, OSHA (mg/M³)</u>	<u>TLV, ACGIH (mg/M³)</u>
Solid Granules: Ammonium Nitrate	90	6484-52-2	N/E	N/E
Liquid: Water	100	7732-18-5	N/E	N/E

Section 3 - Hazards Identification

Emergency Overview

DANGER! Strong oxidizer. Contact with other material may cause a fire. May cause eye, skin and respiratory tract irritation. May cause methemoglobinemia.

Hazard Ratings

NFPA Hazard Rating: Health: 2 Flammability: 0 Reactivity: 3 Special Hazard: OX

HMIS Hazard Rating: Health: 2 Flammability: 0 Reactivity: 3

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Methemoglobinemia is characterized by dizziness, drowsiness, headache, breath shortness, cyanosis with bluish skin, rapid heart rate and chocolate-brown colored blood.

Inhalation: May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea (labored breathing), and death. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Methemoglobinemia is characterized by dizziness, drowsiness, headache, breath shortness, cyanosis with bluish skin, rapid heart rate and chocolate-brown blood. Inhalation can cause systemic acidosis and methemoglobinemia.

Chronic: May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate, unconsciousness and possible death. May cause digestive tract disturbances.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if redness or irritation persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Contact a Poison Control Center. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 5 - Fire Fighting Measures

General Information: Strong oxidizer. Contact with combustible materials may cause a fire. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. May explode under confinement and high temperatures, especially if contaminated. Exposure to yellow or brown fumes from fire requires medical attention.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use flooding quantities of water.

Flash Point: Not available

Autoignition Temperature: Not applicable

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: Health: 2, Flammability: 0, Reactivity: 3, Special Hazard: OX

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions given in Section 8. Avoid generating dusty conditions. Remove all sources of ignition.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation. Keep away from clothing and other combustible materials. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area. Keep away from flammable or combustible materials, acids, reducing agents and alkaline substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: solid

Appearance: white to gray to brown

Odor: odorless

pH: 5.4 (0.1 M solution)

Vapor Pressure: Negligible

Evaporation Rate: Negligible

Boiling Point: decomposes at 410 deg F

Freezing/Melting Point: 338 deg F

Autoignition Temperature: Not applicable

Flash Point: Not available

Decomposition Temperature: 210 deg C

Explosion Limits, Lower: Not available

Upper: Not available

Solubility: 118% at 0 C

Specific Gravity/Density: 1.725 @ 25°C

Section 10 - Stability and Reactivity

Chemical Stability: Stable. However, may decompose if heated.

Conditions to Avoid: Excess heat, combustible materials, organic materials, reducing agents, strong acids, powdered metals.

Incompatibilities with Other Materials: Incompatible with acetic acid, aluminum, ammonium chloride, bleach, cadmium, carbon, chlorides, chromium cobalt, copper, lead, magnesium, copper sulfate, potassium chlorate, powdered metals, nickel, organic matter, phosphorus, potassium and ammonium sulfate, sodium, sodium hypochlorite, sodium perchlorate, sulfur, and zinc

Hazardous Decomposition Products: Oxides of nitrogen

Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

LD50/LC50: Oral, rat: LD50 = 2217 mg/kg

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: No data available

Other Studies: No data available

Section 12 - Ecological Considerations

No information available.

Section 13 - Disposal Considerations

Disposal: Dispose of in accordance with local, state and federal regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: Not listed

RCRA U-Series: Not listed

Section 14 - Transport Information**US DOT**

Shipping Name: Ammonium Nitrate

UN Number: UN1942

Hazard Class: 5.1

Packing Group: III

Eligible for the Limited Quantity and ORM-D exceptions.

Canada TDG

Shipping Name: Ammonium Nitrate

UN Number: UN1942

Hazard Class: 5.1

Packing Group: III

Eligible for the Limited Quantities exemption.

Section 15 - Regulatory Information**US FEDERAL**

TSCA CAS# 6484-52-2 is listed on the TSCA inventory

Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List

CERCLA Hazardous Substances None of the chemicals in this material have an RQ

SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ.

SARA Codes CAS # 6484-52-2: immediate, fire, reactive.

Section 313 This material contains Ammonium nitrate (listed as Water Dissociable Nitrate Compounds), > 98%, (CAS# 6484-52-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 6484-52-2 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts

California Prop 65 California No Significant Risk Level: None of the chemicals in this product are listed.

CANADA

Canada - DSL/NDL CAS# 6484-52-2 is listed on Canada's DSL List.

Canada - WHMIS This product has a WHMIS classification of C, D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List CAS# 6484-52-2 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

Last Updated: 12/3/12

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ZEE Medical be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if ZEE Medical has been advised of the possibility of such damages.