SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name  Cardinal Health Instant Cold Packs
Other means of identification  
UN-Number  UN1942
Synonyms  
Cardinal Health Kwik-Kold™ Instant Cold Packs
Cardinal Health T-Pak® Instant Cold Pack
Novaplus Instant Cold Pack
Jack Frost Instant Cold Packs
Jack Frost Insulated Instant Cold Packs
Dignity Health Instant Cold Packs
Zimmer Instant Cold Pack
Cramer Instant Cold Packs

Recommended use of the chemical and restrictions on use

Recommended Use  Instant Cold Pack for thermal therapy
Uses advised against  No information available

Supplier's details

Supplier Address  Cardinal Health
7000 Cardinal Place
Dublin, OH 43017
TEL: 1-800-964-5227 (Customer Service, 7:30 am (EST) – 8:00 pm (EST))

Emergency telephone number

Emergency Telephone  For emergency information Contact: CHEMTREC
Number  For the United States and Canada: 1-800-424-9300
For international shipments: +1 703-527-3887

2. HAZARDS IDENTIFICATION

Classification

If container is damaged will release a chemical considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

A waterproof package containing small white ammonium nitrate pellets surrounding a small rupturable plastic bag filled with water. Once contents are mixed, the bag will feel cold to the touch. Used as a first aid device. No hazards expected when used per instructions. The hazards described below apply if the packaging is damaged resulting in release of ammonium nitrate solution.

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Serious Eye Damage/ Eye Irritation | Category 2A               
| Oxidizing solids                | Category 3               |

GHS Label elements, including precautionary statements

Emergency Overview
Precautionary Statements

Prevention
• Wash face, hands and any exposed skin thoroughly after handling.
• Keep away from heat/sparks/open flames/hot surfaces - No smoking.
• Keep/Store away from clothing/ other combustible materials
• Take any precaution to avoid mixing with combustibles
• Wear protective gloves/protective clothing/eye protection/face protection.

General Advice
• None

Eyes
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• If eye irritation persists: Get medical advice/attention.

Fire
• In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage
• None

Disposal
• Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information
No information available.
0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>30-60</td>
<td>*</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Description of necessary first-aid measures**

**General Advice**
Under normal conditions of use first aid is not required. First aid may be needed if packaging is damaged resulting in contact with solution.

**Eye Contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation persists.

**Skin Contact**
Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation**
Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

**Ingestion**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.

**Protection of First-aiders**
Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Most important symptoms/effects, acute and delayed**
No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water spray.

**Unsuitable Extinguishing Media**
Avoid use of CO2, dry chemicals, or foam.

**Specific Hazards Arising from the Chemical**
Ammonium nitrate is a strong oxidizing agent and will support combustion in the absence of oxygen. Take precautions against oxidizers if pellets are released from packaging. Explosive decomposition may occur under fire conditions, heat of decomposition may cause closed containers to build up pressure and explode.

**Hazardous Combustion Products**
Ammonia, Nitrogen oxides (NOx).

**Explosion Data**

| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge   | None. |

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**
Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged packages or spilled material.

**Environmental Precautions**
Prevent entry into waterways, sewers, basements or confined areas.
Methods and materials for containment and cleaning up

Methods for Containment
For undamaged containers: Keep away from heat.
For damaged containers: Remove all combustible material. Cool with water spray. Be aware that spilled material may contain unreacted ammonium nitrate. Treat material as oxidizer.

Methods for Cleaning Up
For undamaged containers: Pick up and transfer to properly labeled containers.
For damaged containers: Spilled material may be cold. Remove all sources of ignition. Use non-combustible absorbent material for spilled liquid. Wear protective equipment. Do not use combustible absorbent materials like sawdust. Use non-sparking tools and equipment. Sweep up or shovel into appropriate containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Handling
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities
Storage
Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sources of ignition. Store at room temperature. Do not freeze.

Incompatible Products
Strong oxidizing agents, Nitrate salts, Chloride salts, Metal salts, Finely powdered metals, Hydrocarbons.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls
Engineering Measures
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment
Eye/Face Protection
No protective equipment is needed under normal use conditions. Safety glasses with side-shields.

Skin and Body Protection
No protective equipment is needed under normal use conditions. Impervious gloves.

Respiratory Protection
No protective equipment is needed under normal use conditions.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks / Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>3.0</td>
<td>Aqueous solution</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear to off white liquid packaged in waterproof container</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Combustible material ignitions sources - heat, sparks and open flames.

### Incompatible materials

Strong oxidizing agents, Nitrate salts, Chloride salts, Metal salts, Finely powdered metals, Hydrocarbons.

### Hazardous decomposition products

Ammonia. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>None known</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>None known</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>None known</td>
</tr>
<tr>
<td>Ingestion</td>
<td>None known</td>
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</tbody>
</table>

There is no data available for this product.
Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium nitrate</td>
<td>= 2217 mg/kg (Rat)</td>
<td>-</td>
<td>&gt; 88.8 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenicity

Contains no ingredient listed as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
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</thead>
<tbody>
<tr>
<td>Ammonium nitrate</td>
<td></td>
<td>Group 2A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reproductive Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration Hazard

No information available.

Numerical measures of toxicity - Product

Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium nitrate 6484-52-2</td>
<td></td>
<td>LC50 48 h: 65 - 85 mg/L semi-static (Cyprinus carpio)</td>
<td></td>
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Persistence and Degradability

No information available.

Bioaccumulation

No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
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<tbody>
<tr>
<td>Ammonium nitrate</td>
<td>-3.1</td>
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</table>

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste</th>
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<tbody>
<tr>
<td>Ammonium nitrate</td>
<td>Ignitable, Reactive</td>
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14. TRANSPORT INFORMATION
<table>
<thead>
<tr>
<th>DOT</th>
<th>UN-Number</th>
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<tbody>
<tr>
<td>Proper shipping name</td>
<td>Ammonium nitrate</td>
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</tr>
<tr>
<td>Hazard Class</td>
<td>5.1</td>
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<tr>
<td>Packing Group</td>
<td>III</td>
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<tr>
<td>Description</td>
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<td>Hazard Class</td>
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<td>Packing Group</td>
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<td>Description</td>
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<table>
<thead>
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<td>Proper shipping name</td>
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<td>Hazard Class</td>
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<tr>
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<th>IATA</th>
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<td></td>
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<td>Packing Group</td>
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<td>Description</td>
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<table>
<thead>
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<th>IMDG/IMO</th>
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<th>UN1942</th>
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</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Ammonium nitrate</td>
<td></td>
</tr>
<tr>
<td>Hazard Class</td>
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<td></td>
</tr>
<tr>
<td>Packing Group</td>
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<tr>
<td>EmS No.</td>
<td>F-H, S-Q</td>
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<td>Description</td>
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<table>
<thead>
<tr>
<th>ADR</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Ammonium nitrate</td>
<td></td>
</tr>
<tr>
<td>Hazard Class</td>
<td>5.1</td>
<td></td>
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<tr>
<td>Packing Group</td>
<td>III</td>
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<tr>
<td>Classification Code</td>
<td>O2</td>
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<td>Description</td>
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<tr>
<td>Tunnel Restriction Code</td>
<td>(E)</td>
<td></td>
</tr>
<tr>
<td>ADR/RID-Labels</td>
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<td></td>
</tr>
</tbody>
</table>

|Proper Shipping Name| Ammonium nitrate |
|Hazard Class| 5.1 |
|Packing Group| III |
WPS-CAR-008 - Cardinal Health Instant Cold Packs

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium nitrate</td>
<td>6484-52-2</td>
<td>46</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
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</thead>
<tbody>
<tr>
<td>Ammonium nitrate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>Physical Hazard X</td>
<td></td>
</tr>
</tbody>
</table>

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501
General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet