

SAFETY DATA SHEET

Issuing Date 12-Dec-2013

Revision Date 12-Dec-2013

Revision Number 0

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 Packs
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 Number For emergency information Contact: CHEMTREC
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.

Serious Eye Damage/Eye Irritation	Category 2A
Oxidizing solids	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word**Warning****Hazard Statements**

- Causes serious eye irritation
- May intensify fire; oxidizer



Appearance Clear to off white liquid packaged in waterproof container

Physical State Liquid.

Odor Odorless

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

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 Packs Cramer Instant Cold Packs
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Chemical Name	CAS-No	Weight %	Trade secret
Water	7732-18-5	30-60	*
Ammonium nitrate	6484-52-2	30-60	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

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

Most Important Symptoms/Effects 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 (NO_x).

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

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

Physical State	Liquid	Appearance	Clear to off white liquid packaged in waterproof container
Odor	Odorless	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	3.0	Aqueous solution
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	Not applicable.	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	Not flammable.	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	No data available.	None known
Water Solubility	Soluble in water.	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	Oxidizer.	
<u>Other information</u>		
VOC Content (%)	No data available	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

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**Product Information**

Inhalation	There is no data available for this product.
Eye Contact	There is no data available for this product.
Skin Contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium nitrate	= 2217 mg/kg (Rat)	-	> 88.8 mg/L (Rat) 4 h

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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium nitrate		Group 2A		

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.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ammonium nitrate 6484-52-2		LC50 48 h: 65 - 85 mg/L semi-static (Cyprinus carpio)		

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Log Pow
Ammonium nitrate	-3.1

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.

Chemical Name	California Hazardous Waste
Ammonium nitrate	Ignitable Reactive

14. TRANSPORT INFORMATION

DOT

UN-Number UN1942
Proper shipping name Ammonium nitrate
Hazard Class 5.1
Packing Group III
Description UN1942, Ammonium nitrate, 5.1, III
Emergency Response Guide Number 140

TDG

UN-Number UN1942
Proper Shipping Name Ammonium nitrate
Hazard Class 5.1
Packing Group III
Description UN1942, Ammonium nitrate, 5.1, III

UN-Number UN1942
Proper Shipping Name Ammonium nitrate
Hazard Class 5.1
Packing Group III
Description UN1942, Ammonium nitrate, 5.1, III

ICAO

UN-Number UN1942
Proper shipping name Ammonium nitrate
Hazard Class 5.1
Packing Group III
Description UN1942, Ammonium nitrate, 5.1, III

IATA

UN-Number UN1942
Proper Shipping Name Ammonium nitrate
Hazard Class 5.1
Packing Group III
ERG Code 5L
Description UN1942, Ammonium nitrate, 5.1, III

IMDG/IMO

UN-Number UN1942

Proper Shipping Name Ammonium nitrate
Hazard Class 5.1
Packing Group III
EmS No. F-H, S-Q
Description UN1942, Ammonium nitrate, 5.1, III

UN-Number UN1942
Proper Shipping Name Ammonium nitrate
Hazard Class 5.1
Packing Group III
Classification Code O2
Description UN1942, Ammonium nitrate, 5.1, III

ADR

UN-Number UN1942
Proper Shipping Name Ammonium nitrate
Hazard Class 5.1
Packing Group III
Classification Code O2
Tunnel Restriction Code (E)
Description UN1942, Ammonium nitrate, 5.1, III, (E)
ADR/RID-Labels 5.1

Proper Shipping Name Ammonium nitrate
Hazard Class 5.1
Packing Group III
Classification Code O2
Special Provisions 306, 611
Description UN1942, Ammonium nitrate, 5.1, III
Limited Quantity 5 kg

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium nitrate	6484-52-2	46	1.0

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Ammonium nitrate	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 0	Instability 3	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Physical Hazard 3	Personal Protection X

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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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