

COLDSTAR INTERNATIONAL

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Issued: March 2003

Chemical Composition Data

Item Description

ColdStar Disposable Instant Cold Pack
Issued March, 2003

Part Number

0101, 0102, 0103, 0104, 411204

SECTION ONE • CHEMICAL COMPOSITION DATA

<u>ITEM:</u>	<u>C.A.S. NO.</u>	<u>PERCENT</u>
Ammonium Nitrate	6484-52-2	45.45
Water	7732-18-5	51.45
Proprietary		1.00
Acrylic Acid, Polymers (Film)	9003-01-4	<u>2.10</u>
		100.00

The above chemicals are separated into compartments before activation of the cold pack. Compartment 1: Ammonium Nitrate (powder), Compartment 2: Water

The product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III Emergency Planning and Community Right To Know Act of 1986 and 40 CFR.: AMMONIUM NITRATE

SECTION TWO • PHYSICAL DATA

Boiling Point	>100°C
Vapor Pressure	760 MM HG @ 100° C
Vapor Density	>1
Evaporation Rate	N/A
Solubility in Water	Very Soluble
Specific Gravity	S=1.7; LIQ=1.1
Percent Volatile	46
Volatile Organic Compounds	N/D
Voc Less H2O & Exempt Solvents	N/D
pH	7.0
Viscosity	N/A
Melting Point	N/D
Appearance and Odor	Solid=White, Liquid=Hazy

SECTION THREE • FIRE AND EXPLOSION HAZARD DATA

Flash Point	N/D
Flammable Limits: LEL	N/A
Flammable Limits: UEL	N/A
Autoignition Temperature	N/D
EXTINGUISHING MEDIA:	Water

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask and protective covering for exposed areas of the head. These fire fighting procedures are applicable in warehouse situations. Single units would not call for the above procedures.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Confinement at elevated temperatures or exposure to strong oxidizers may cause an explosion.

Abbreviations: N/D - Not Determined, N/A - Not Applicable

NFPA Hazard Codes:

Health:1 Fire: 1 Reactivity: 0 Unusual Reaction Hazard: N/D

OSHA FIRE HAZARD CLASS: Not Determined

SECTION FOUR • REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY-MATERIALS/CONDITIONS TO AVOID: Strong oxidizing agents, heat

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonium Salts

SECTION FIVE • ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Cover with inorganic absorbent material. If dry, shovel into dry container and cover.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility. Dispose of waste product in a facility permitted to accept chemical waste.

ENVIRONMENTAL DATA: None

EPCRA HAZARD CLASS: Fire hazard: NO Pressure: NO Reactivity: NO Acute: NO Chronic: NO

SECTION SIX • SUGGESTED FIRST AID

EYE CONTACT: Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT: Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION: No need for first aid is anticipated.

IF SWALLOWED: Drink two glasses of water. Call a physician.

SECTION SEVEN • PRECAUTIONARY INFORMATION

EYE PROTECTION: Avoid eye contact.

SKIN PROTECTION: Avoid skin contact.

RECOMMENDED VENTILATION: Not applicable.

RESPIRATORY PROTECTION: Not applicable.

PREVENTION OF ACCIDENTAL INGESTION: Do not ingest.

RECOMMENDED STORAGE: Store at temperatures which are below 80 degrees F (26 degrees C). Keep out of reach of children.

FIRE AND EXPLOSION AVOIDANCE: Explosive when dry. Do not heat under confinement.

EXPOSURE LIMITS:

<u>Ingredient:</u>	<u>Value</u>	<u>Unit</u>	<u>Type</u>	<u>Auth</u>	<u>Skin*</u>
Ammonium Nitrate	NONE	NONE	NONE	NONE	
Water	NONE	NONE	NONE	NONE	

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne, or more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA: None established.

SECTION EIGHT • HEALTH HAZARD DATA

EYE CONTACT: Eye contact is not expected to occur during normal use of the product.

Abbreviations: N/D - Not Determined, N/A - Not Applicable

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- SKIN CONTACT:** Prolonged or repeated exposure may cause:
Frostbite: signs/symptoms can include firm blanched areas, redness, pain, tissue destruction, swelling and scar tissue formation.
- INHALATION:** No adverse health effects are expected from inhalation exposure.
- IF SWALLOWED:** Ingestion is not a likely route of exposure to this product. Ingestion may cause: Irritation of gastrointestinal tissues: signs /symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus and blood in feces.
- OTHER HEALTH HAZARD INFORMATION:**
Exposure to the contents of the pack may cause eye and skin irritation. If pack breaks, discard and wash the affected area with soap and water.

Information on this **Material Safety Data Sheet** represents our current data and best opinion as to the proper use and handling of the Product under normal conditions. Any use of the product which is not in conformance with this **Material Safety Data Sheet** or which involved using the product in combination with any other product or any other process is the responsibility of the user.

Product code 2260802025 Instant Cold Icepack is not restricted under the U.S. Department of Transportation 49 CFR and International Air Transport Association (ATA) dangerous goods regulations.