



## **SAFETY DATA SHEET**

The preparation is classified as hazardous under U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30. This product is exempt from the labeling requirements of OSHA 29 CFR 1910.1200 per section 1910.1200(b)(5).

None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

### **1.0 IDENTIFICATION**

**Product:** Grafco® Instant Cold Pak,  
P/N 9100A

**General Use:** First aid treatment of bumps, bruises, sprains, minor aches and pains, etc.

**Company Name:**  
GF Health Products, Inc.

**Emergency Telephone Number:**  
CHEMTREC 800-424-9300 (24 hour)

**Address:**  
One Graham-Field Way  
Atlanta, GA 30340

**Telephone Number for Information:**  
800-347-5678 (Normal Business Hours)

**Date Issued:** 11/30/05

**Date Revised:** 10/03/2018

### **2.0 HAZARD(S) IDENTIFICATION**

**Classification of the Substance or Mixture:**

**GHS 3.1.14 – Oxidizing Solid – Category 3 – Solid**

**GHS 3.2.1 – Acute Toxicity – Category 5 – Oral**

**GHS 3.2.3 – Skin Irritant – Category 3 – Mild Skin Irritant**

**GHS 3.2.4 – Eye Effects – Category 2A – Irritant**

**GHS 3.2.5 – Sensitization – Respiratory – Nose and Throat Irritant**

**GHS Label Elements:** WARNING, Pictogram – Exclamation Point

**Hazard-Determining Components of Labeling:**  
Ammonium Nitrate

**Hazard Statements:**

H272 – may Intensify fire; Oxidizer

H303 – May be harmful if swallowed

H315 + H320 – Causes skin and eye irritation

H335 – May cause respiratory irritation

**Precautionary Statements:**

P102 – Keep out of reach of children



P103 – Read label before use

P210 – Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P211 – Take any precaution to avoid mixing with combustibles/incompatible materials

Classification System: NFPA Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

**NFPA Rating Diamond (Scale 0-4):**

HEALTH = 0 – Least

FIRE = 0 – Least

REACTIVITY = 3 – High

**HMIS-Rating (Scale 0-4):**

**HEALTH:** 1

**FIRE:** 1

**REACTIVITY:** 3

**3.0 COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Item:</u>	<u>C.A.S. No.</u>	<u>Percent</u>
Ammonium Nitrate	6484-52-2	40% – 60%
Water	7732-18-5	40% - 60%
Proprietary		1.00%* Trade Secret
Polymers (Film)	None	2.00% - 4.00%

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**

**4.0 FIRST-AID MEASURES**

**General Information:** During normal use of this article exposure to the chemical is not expected.

**Eye Contact:** Eye contact is not expected to occur during normal use of the products. If contact with the contents occurs, rinse immediately with plenty of water, also under the eyelids. Obtain medical attention if irritation persists.

**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. If contact with the contents occurs, Wash off with soap and water

**Inhalation:** No adverse health effects are expected from inhalation exposure. Exposure to non-activated pack contents may cause shortness of breath, cough, and irritation to the respiratory tracts. Discard pack and move to area with adequate ventilation.

**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.

Call a physician or Poison Control Center immediately. If victim IS conscious, rinse mouth with a small amount of water. Never give anything by mouth to a person who is unconscious or drowsy.



**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.

## **5.0 FIRE-FIGHTING MEASURES**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flash Point:	N/D
Autoignition Temperature:	N/D
Extinguishing Media:	Water
Special Fire Fighting Procedures:	N/D
Unusual Fire and Explosion Hazards:	N/D
Hazardous Decomposition Products:	N/D

**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.

**OSHA Fire Hazard Class:** Not determined

Abbreviations:

N/D – Not Determined

N/A – Not Applicable

## **6.0 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear Suitable protective equipment. Do not use combustible materials such as paper towels or sawdust to collect spill.

**Spill and Leak Procedures:** Recommended clean-up procedures when compress is damaged before activation:

- Contain and collect with Inert absorbent material and place in a suitable container for disposal, similar to the container material was supplied in.
- Do not use combustible materials such as paper towels or sawdust to collect spill. Contact with combustible material may cause fire. Comply with all federal, state and local regulations.



**Recommended clean-up procedures when compress is damaged after activation:**

- Spilled material should be collected appropriately and wash remainder with plenty of water. If spilled material enters a water course, inform the local authority.
- Place in a suitable container for disposal, similar to the container material was supplied in.

**Environmental Precautions:** The substance is biodegradable. Harmful to aquatic organisms. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

## **7.0 HANDLING AND STORAGE**

**Precautions for Safe handling & Storage:** Avoid contact with contents of product.

Handling: use appropriate protective clothing and equipment (see section 8).

Storage: Store away from combustible material and reducing agents. Do not expose to high temperatures.

Packaging Materials: bulk, bags.

**Other Precautions:** Recommended handling procedures when compress is damaged: Wear appropriate protective equipment. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Avoid and control operations which create high vapor or dust concentrations. Do not ingest. Wash thoroughly after handling. Always keep in containers made of the same materials as the supply container.

## **8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Protective Gloves:** None required for normal use.

**Respiratory Protection:** No personal respiratory protective equipment normally required.

**Eye Protection:** Eye contact is not expected to occur during normal use of the product.

**Skin Protection:** No adverse health effects are expected from skin contact. Protective gloves may be worn only in case of moist and sensitive hands.

**Engineering Controls:** No special ventilation normally required.

**Other Protective Clothing or Equipment:** N/A

For bulk processing, regular hand washing along with general body-covering clothing, safety goggles and gloves are recommended as good industrial hygiene practice.



## **9.0 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Solid = White, Granules; Liquid = Hazy to Clear
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	N/A
<b>pH:</b>	N/A
<b>Melting Point</b>	170°C
<b>Freezing Point</b>	N/A
<b>Boiling Point and Boiling Range:</b>	>100°C
<b>Flash Point</b>	N/A
<b>Evaporation Rate (Butyl Acetate = 1):</b>	Very Soluble
<b>Flammability:</b>	0
<b>Vapor Pressure (mm Hg):</b>	760 mm Hg @ 1000°C >1
<b>Vapor Density (AIR = 1):</b>	N/D
<b>Relative Density:</b>	1.7 g/m <sup>3</sup>
<b>Solubility:</b>	Soluble in water, g/100 mL at 20°C:200
<b>Partition Coefficient:</b>	N/A
<b>Auto-ignition temperature:</b>	N/A
<b>Decomposition Temperature:</b>	>210°C
<b>Viscosity:</b>	N/A
<b>Voc Less H<sub>2</sub>O &amp; Exempt Solvents</b>	N/A

Abbreviations:

N/D – Not Determined

N/A – Not Applicable

## **10.0 STABILITY AND REACTIVITY**

**Stability:** Stable under proper storage conditions.

Conditions to avoid: Melts and decomposes when heated to extreme temperatures.

**Incompatibility – Materials/conditions to Avoid:** Strong base, strong acid, organic materials, chromates, zinc, compounds by copper, nickel and cobalt.

**Hazardous Polymerization:** Not expected under prescribed storage and handling conditions.

**Hazardous Decomposition Products:** Ammonium nitrate melts and decomposes when strongly heated, releasing toxic fumes (NON).

## **11.0 TOXICOLOGICAL INFORMATION**

**Routes of Exposure:** Not expected under normal usage.  
Eye or Skin

**Related Symptoms:** Not expected under normal usage.

Eye: Eye irritation

Skin: Very Mild skin irritation



**Acute Toxicity:** N/A

**Chronic Effects of Long Term Exposure:**

Chronic Toxicity: substance might lead to change in blood structure (formation of methaemoglobine)

Mutagenicity: No mutagenicity expected

Reproductive Toxicity: No reproductive toxicity expected

Teratogenicity: Not expected to be a teratogen

Epidemiological Data: Epidemiological data indicates no effects in workers exposed to 10 mg/m<sup>3</sup> for a year or longer

**Numerical measures of toxicity:**

Oral: LD50 rat: expected 2000 mg/kg

Inhalation: 4 hrs LC50 rat: expected 88 mg/L

**Carcinogenicity:**

NTP: No NCI-Lifetime study has been carried out

IARC: No IARC monograph has been published

OSHA: Not a regulated carcinogen

## **12.0 ECOLOGICAL INFORMATION**

**Ecotoxicity:**

96 h LCSO (for fish): 10-100 mg/L

48 h EC50 (for Daphnia): 10-100 mg/L

**Biodegradability:** Readily biodegradable

**Bioaccumulation:** Log P 0, no bioaccumulation potential

**Mobility:** highly water soluble. It is not absorbed by soil

**Other Adverse Effects:** None Found

## **13.0 DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Responsibility of the receiver to have knowledge of national and local regulations. The substance is biodegradable. Disposal according to the local legislation.

## **14.0 TRANSPORT INFORMATION**

**UN number and proper shipping name:** UN1942, Ammonium Nitrate

A limited quantity may be renamed "consumer commodity" and re-classed as ORM-D. Please consult 49 CFR 17Y152 for additional information.

**Transport hazard class(es):** 5.1

**Packing group:** III

**Environmental hazards:** Avoid release to the environment in circumstances different to normal use.



**Special precautions:** Heating may cause violent combustion or explosion. Decomposes on heating - >170°C. This produces toxic fumes. The substance is a strong oxidant. It reacts with acids and combustible and reducing materials.

## **15.0 REGULATORY INFORMATION**

### **US Federal Regulations**

TSCA (Toxic Substance Control Act): Not regulated  
CERCLA/SARA – Hazardous Substances: Not Applicable  
302 Extremely Hazardous Substances EPCRA RQS: Not Listed  
302 Extremely Hazardous Substances TPQS: Not Listed  
CERCLA/SARA – 313 – Emission Reporting: Not Listed

### **US State Regulations**

California – 8 CCR Section 339 – Director’s List of Hazardous Substances: Not Listed

### **International Regulations** Canadian WHMIS Classification: Not Listed

Canadian WHMIS – Ingredient Disclosure List: Not Listed  
Canadian Environmental Protection Act (CEPA) information: Not Listed  
Germany – Water Hazard Class: Not Listed

## **16.0 OTHER INFORMATION**

All information, recommendations, and suggestions appearing herein concerning the product are based upon data believed to be reliable. It is the user’s responsibility to determine that safety, toxicity, and suitability for their own use of the product described herein, and to comply with all applicable regulations. Since the actual use by others is beyond the SDS developer’s control, no guarantee, expressed or implied is made by GF Health Products, Inc., as to the effects of such use, the results to be obtained or the safety and toxicity of the product nor does GF Health Products, Inc. assume any liability arising out of use by others of the product referred to herein. This SDS is not intended as a license to operate under, or recommendation to infringe on, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Note: CHEMTREC and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used only in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non- emergency questions should be directed to GF Health Products, Inc., for assistance.

**PREPARED BY: GF Health Products, Inc.  
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