

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Instant Cold Pack
MFR #: 16-9703

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTION ON USE

Uses advised against: To control and alleviate the gore and pain caused by strain, bruise, pull and burn, also can rapidly remove the pain and discomfort induced by fever, headache, toothache, mosquito bite.

Restrictions on use:

- (a) Anesthetic skin
- (b) Cold allergy/cold-induced urticaria
- (c) Cold-induced myocardial ischemia (other unstable heart or lung disease)
- (d) Diabetes mellitus (when complicated bivasular disease or sensory loss)
- (e) Peripheral vascular disease
- (f) Raynaud's phenomenon
- (g) Systemic lupus erythematosus
- (h) Uncovered open wounds

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SECTION 2: HAZARDOUS INGREDIENTS

GHS Classification

GHS Regulatory Status

This chemical is not considered hazardous by the UN GHS (the 6th revised edition).

GHS Label elements

- (1) **Signal word:**
Danger

- (2) **Hazard class:**
Acute toxicity-Oral Category 4
Eye damage/Eye irritation Category 1

(3)



- (4) **Hazard Statements**

H302 Harmful if swallowed

H318 Causes serious eye damage

- (5) **Precautionary Statements – Prevention:**

P264 Wash thoroughly after handling

P270 Do not eat, drink, or smoke when using this product

P280 Wear protective gloves/protective clothing/eye protective/face protective

(6) Precautionary Statements – Response:

P310 Immediately call a POISON CENTER/ DOCTOR.

P330 Rinse mouth.

P301+P312 IF SWALLOWED: Call a POISON CENTER/ DOCTOR, if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(7) Storage:

No Application

(8) Dispose of contents/container in accordance with local/regional/national/international regulations (to be specified).

Other hazards which do not result in classification

Not applicable

SECTION 3: COMPOSITION

Prepared according to UN GHS (the 6th revised edition)

SAFETY DATA SHEET

Ingredients	CAS #	%(weight)	ACGIH TLV		OSHA	
			TWA	STEL	PEL	STEL
Calcium Ammonium Nitrate	15245-12-2	30-70	N/Av	N/Av	N/Av	N/Av
Water	7732-18-5	30-70	N/Av	N/Av	N/Av	N/Av

SECTION 4: FIRST AID MEASURES

Description of necessary first-aid measures

General Advice: Take proper precautions to ensure your own health and safety before attempting rescue and providing

first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: Remove to fresh air. Get medical attention if ill effects occur.

Skin Contact: Wash the affected area with soap and water.

Eye Contact: Immediately flush eyes with plenty of water for at least 15minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Ingestion: If swallowed, do not induce vomiting, give several glasses of water or milk to drink. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

Protection of first-aid: None.

Most important symptoms/effect, acute and delayed

See section 11

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

1)**Note to Physicians:** Treat symptomatically.

2)**Specific treatments:** No further relevant information available.

SECTION 5: FIRE & EXPLOSION HAZARD DATA

Extinguishing media

Suitable extinguishing media: Water spray.

Unsuitable extinguishing media: If substance is involved in the fire, use plenty of water. Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand.

Specific hazards arising from the mixture: None.

Special protective equipment and precautions for fire-fighters

Special protective equipment: Wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn move containers from fire area if safe to do so.

Special protective precautions: Fight fires from a safe distance. Evacuate personnel to safe area. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

- Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.
- Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contacting with skin and eyes.
- Wear protective clothing, gloves, safety glasses and dust respirator.

Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Do not let product enter drains.

Methods and materials for containment and cleaning up: Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING & STORAGE

PRECAUTIONS FOR SAFE HANDLING.

Handling: Ensure good local exhaust ventilation. Handle and open container with care. Keep container closed and away from incompatible substances, food, drink and dust/impurities. Protect from humidity and water. Minimize dust generation and accumulation. Avoid dust contact with eyes. Avoid breathing dust and fume. Avoid ingestion. Remove contaminated clothing and wash before reuse. Empty containers retain product residue. The work area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment.

Information about fire – and explosion protection: Normal measure for preventive fire protection.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements to be met by storerooms and receptacles: Store in a closed container. Store in a cool, dry, and well-ventilated area and keep away from incompatible substances, food, drink and dust/impurities. Inspect regularly for deficiencies such as damage or storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment. Store protected from moisture.

Specific end use(s): No further relevant information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL FACILITIES: NO FURTHER DATA; SEE ITEM 7.

Exposure controls

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection: Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling product.

Skin protection: Wear appropriate protective clothing, and gloves to prevent skin contact.

Respiratory protection: An appropriate respirator or mask should be used whenever workplace conditions warrant a respirator's use. A full face positive pressure supplied-air respirator or a self-contained breathing apparatus should be used when large spill or fire.

Other Protection: Use good hygiene practices when handling this material including changing and laundering work clothing after use. Have a safety shower or eye-wash fountain available. Wash hands thoroughly after handling material. Do not eat, drink, or smoke in work areas.

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

- (a) **Appearance (physical state, color, etc.):** White granules
- (b) **Odor:** Oderless
- (c) **Odor threshold:** No information found.
- (d) **pH:** 5.0 (1% aqueous solution)
- (e) **Melting point/freezing point:** 100-104 C
- (f) **Initial boiling point and boiling range:** No information found.
- (g) **Flash point:** No information found.
- (h) **Evaporation rate:** No information found.
- (i) **Flammability (solid, gas):** No information found.
- (j) **Upper/lower flammability or explosive limits:** No information found
- (k) **Vapor pressure:** No information found.
- (l) **Vapor density:** No information found.
- (m) **Relative density:** No information found.
- (n) **Solubility:** No information found.
- (o) **Partition coefficient n-octanol/water:** No information found.
- (p) **Auto-ignition temperature:** No information found.
- (q) **Decomposition temperature:** No information found.
- (r) **Viscosity:** No information found.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No information found.

Chemical Stability: Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions

Hazardous Polymerization: Not expected under prescribed storage and handling conditions. Decomposition may occur at extremely high temperatures.

Conditions to avoid: Incompatible materials, dust generation.

Incompatible materials: Reactive with oxidizing agents.

Hazardous decomposition Products: No dangerous decomposition products known.

Incompatibilities with Other Materials: No further relevant information available.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Toxicological data: There is no available data for the product itself, only for the ingredients, Refer to Section 2 for individual ingredient LD50's and LC50's.

Ingredients	CAS No.	LC ₅₀	LD ₅₀	
		Inh. rat	oral	dermal
Calcium Ammonium Nitrate	15245-12-2	N/A	>2000mg/kg	N/A
Water	7732-18-5	N/A	N/A	N/A

Carcinogenic status: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Other information

Skin corrosion/irritation: No information found.

Serious eye damage/irritation: No information found.

Skin or skin sensitization: No information found.

Germ cell mutagenicity: No information found.

Reproductive toxicity: No information found.

STOT-single exposure: No information found.

STOT-repeated exposure: No information found.

Aspiration hazard: No information found.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

Acute/Chronic Toxicity: Not available.

PERSISTENCE AND DEGRADABILITY

Not available.

BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

MOBILITY IN SOIL

Not available.

OTHER ADVERSE EFFECTS

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waster.

Contaminated packaging

Recommendation: Disposal must be made according to official regulations.

Disposal recommendations

Refer to section 13.1 and 13.2.

SECTION 14: TRANSPORT INFORMATION

- (a) **UN Number (TDG, ADR, IMDG, IATA):** Not applicable.
- (b) **UN proper shipping name (TDG, ADR, IMDG, IATA):** Not applicable.
- (c) **Transport hazard class (TDG, ADR, IMDG, IATA):** Non-hazardous for Transport.
- (d) **Packing group (TDG, ADR, IMDG, IATA):** Not applicable.
- (e) **Environmental hazards (Marine pollutant):** Refer to section 12.1.
- (f) **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- (g) **Special precautions for user:** Not applicable.

SECTION 15: REGULATORY INFORMATION

Component	[EINECS]	[TSCA]	[DSL]	[IECSC]	[NZIoC]	[PICCS]	[KECI]	[AICS]
Calcium Ammonium Nitrate	Listed	Listed	Not listed	Not listed	Listed	Not listed	Listed	Not listed
Water	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

[EINECS]European Inventory of Existing Commercial Chemical Substances

[TSCA]United States Toxic Substances Control Act Inventory

[DSL]Canadian Domestic Substances List

[IECSC]China Inventory of Existing Chemical Substances

[NZIoC]New Zealand Inventory of Chemicals

[PICCS]Philippines Inventory of Chemicals and Chemical Substances

[KECI]Existing and Evaluated Chemical Substances

[AICS]Australia Inventory of Chemical Substances

SECTION 16: OTHER INFORMATION

Reference

[1] IPCS:The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.

[2] IARC,website: <http://www.iarc.fr/>.

[3] OECD: The Global Portal to Information on Chemical Substances, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.

[4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5] NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7] U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms



UN GHS: United nations Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980.

DOT: Department of Transportation

DSL: the Domestic Substances List of Canada

EC: European Commission

EPA: Environmental Protection Agency

HMIS: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

IATA: International Air Transport Association

LC: Lethal Concentration

LD50: Lethal dose, 50 percent kill

MA: Massachusetts

MAC: Maximum allowable concentration

MSHA: Mine Safety and Health Administration

N/Ap: Not Applicable

N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: US National Institute for Occupational Safety and Health

NTP: US National Toxicology Program

OSHA: US Occupational Safety and Health

PA: Pennsylvania

PEL: Permissible Exposure Limit

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances



SARA: Superfund Amendments and Reauthorization Act

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