

SAFETY DATA SHEET

INSTANT COLD PACK

Infosafe No.: LQ8ZA
ISSUED Date : 09/08/2018
ISSUED by: OPTICA LIFE ACCESSORIES
LIMITED

1. IDENTIFICATION

GHS Product Identifier

INSTANT COLD PACK

Company Name

OPTICA LIFE ACCESSORIES LIMITED

Address

Suite 6, 5-7 Ross Street Parramatta
NSW 2150 Australia

Telephone/Fax Number

Tel: 1800 199 860

Fax: 1800 353 701

Emergency phone number

1800 199 860 (8:00am - 3pm, 5 days a week)

Recommended use of the chemical and restrictions on use

Single use cold pack

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Oxidizing Solids: Category 3

Eye Damage/Irritation: Category 2A

Signal Word (s)

WARNING

Hazard Statement (s)

H272 May intensify fire; oxidiser.

H319 Causes serious eye irritation.

Pictogram (s)

Flame over circle, Exclamation mark

**Precautionary statement – Prevention**

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

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles

P264 Wash contaminated skin thoroughly after handling.

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

Precautionary statement – Response

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use water spray for extinction.

Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Ammonium nitrate	6484-52-2	40-60 %
Water	7732-18-5	40-60 %

4. FIRST-AID MEASURES

Inhalation

Not considered a potential route of exposure for intact product, when used as intended. However, if the sealed unit is damaged and exposure occurs: remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Not considered a potential route of exposure for intact product, when used as intended. However, if the sealed unit is damaged and exposure occurs: Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Not considered a potential route of exposure for intact product, when used as intended.

If the sealed unit is damaged and exposure occurs: Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact

Not considered a potential route of exposure for intact product, when used as intended.

If the sealed unit is damaged and exposure occurs: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray

Unsuitable Extinguishing Media

Avoid use of carbon dioxide, dry chemicals, or foam.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes including ammonia, oxides of nitrogen, carbon monoxide and carbon dioxide.

Specific Hazards Arising From The Chemical

Oxidising. Contact with combustible material may cause fire. Non-combustible, but may support the combustion of other materials. Heating can cause expansion or decomposition leading to violent rupture of containers.

Ammonium nitrite pellets, prior to mixing, may explode from heat or contamination, can accelerate burning when involved in fire, can react explosively with hydrocarbons. If pellets are released from packaging, avoid contact with strong oxidizers.

Hazchem Code

1Y

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Do not touch or walk through spilled material. Prevent entry into sewers, water courses, basements or confined areas. Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Place inert, non-combustible absorbent material onto spillage. Collect the material and place into a suitable labelled container.

Methods for Cleaning Up

For undamaged containers: Remove all sources of ignition. Do not breathe dust. 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. Do not use combustible absorbent materials like sawdust. Use non-sparking tools and equipment. As a water based product, if spilt on electrical equipment the product will cause short-circuits.

Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of dust, vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust, mists or vapours in the work atmosphere. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Store away from incompatible materials. Do not freeze. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom reference should be made to Australian Standard AS 4326 (2008)- The storage and handling of oxidizing agents.

Storage Temperatures

Store at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels. TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Source: Safe Work Australia

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

For undamaged containers:

None required, when used as intended.

For damaged containers:

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

If pellets are released from packaging:

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. A flameproof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

None required, when used as intended.

Reference should be made to Australian Standards AS/NZS 1715 2009, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 2012, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

None required, when used as intended. However, if contents exposed, safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 2 & 6 2012 - Eye Protectors for Industrial Applications.

Hand Protection

None required, when used as intended. However, if contents exposed, Wear gloves of impervious material such as rubber. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

Reference should be made to AS/NZS 2161.1 2016: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Article - Containing Chemical	Appearance	Article containing solid & liquid Cloudy liquid
Colour	Not available	Odour	Slight ammonia odour
Decomposition Temperature	Not available	Melting Point	Not available
Freezing Point	Not available	Boiling Point	Not available
Solubility in Water	100%	Specific Gravity	Not available
pH	3.0 (solution)	Vapour Pressure	Not available
Vapour Density (Air=1)	Not available	Evaporation Rate	Not available
Odour Threshold	Not available	Viscosity	Not available
Partition Coefficient: n-octanol/water	Not available	Flash Point	Not available
Flammability	Non-combustible, but may support the combustion of other materials.	Auto-Ignition Temperature	Not available
Explosion Limit - Upper	Not available	Explosion Limit - Lower	Not available
Explosion Properties	Not available	Oxidising Properties	Solid: Oxidising

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Reactivity and Stability

Reacts with incompatible materials. Ammonium nitrate pellets react with water.

Conditions to Avoid

Dust accumulation, heat and other sources of ignition. Extremes of temperature and direct sunlight. Combustible material. Store away from incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong acids, nitrate salts, chloride salts, metal salts, alkali metals, finely powdered metals, hydrocarbon oils.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including: ammonia and oxides of nitrogen.

Possibility of hazardous reactions

Ammonium nitrate pellets, prior to mixing, react violently with reducing agents, strong acids, powdered metals and organic materials.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Toxicity data for material given below.

Acute Toxicity - Oral

Ammonium nitrate

LD50 (rat): 4500 mg/kg

Toxic limit (livestock): 400 mg/l

Acute Toxicity - Dermal

Ammonium nitrate

LD50 (rabbit): 3000 mg/kg

Ingestion

Ingestion unlikely due to form of product. However, if the sealed unit is damaged, exposure to leaked material may cause irritate the gastric tract causing nausea and vomiting. May cause metabolic acidosis, diuresis (increased urination), vasodilatation, and methemoglobinemia.

Inhalation

No adverse effects expected. However, if the sealed unit is damaged, exposure to leaked material may cause irritation to the mucous membranes and upper airways.

Skin

Unlikely due to form of product. However, if the sealed unit is damaged, skin contact with leaked material may cause redness, itching, swelling and skin irritation.

Eye

Unlikely due to form of product. However, if the sealed unit is damaged, eye contact with leaked material causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation is listed as a Group 2A: Probably carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecological data available for this material.

Persistence and degradability

Degradability: Yes

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport:

This material is classified as Dangerous Goods Division 5.1 (Oxidising Substances)

Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1: Explosives
- Division 2.1: Flammable Gases
- Division 2.3: Toxic Gases
- Class 3: Flammable Liquids
- Division 4.1: Flammable Solids
- Division 4.2: Spontaneously combustible substances
- Division 4.3: Dangerous when wet Substances
- Some Division 5.1 Oxidising substances (Refer Table 9.2)
- Division 5.2: Organic peroxides
- Class 6: Toxic or Infectious Substances. If the Class 6 substance is a fire risk substance
- Class 7: Radioactive materials unless specifically exempted
- Class 8: Corrosive substances
- Class 9: Miscellaneous substances. (when the class 9 substance is a fire risk substance)
- Fire risk substances
- Combustible liquids

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 5.1

UN No: 1942

Proper Shipping Name: AMMONIUM NITRATE

Packing Group: III

EMS : F-H, S-Q

Special Provisions: 900,952,967

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division: 5.1

UN No.: 1942

Proper Shipping Name: Ammonium nitrate

Packaging Group: III

Packaging Instructions (passenger & cargo): 559

Packaging Instructions (cargo only): 563

Hazard Label: Oxidizer

Special Provisions: A64, A803

U.N. Number

1942

UN proper shipping name

AMMONIUM NITRATE

Transport hazard class(es)

5.1

Packing Group

III

Hazchem Code

1Y

IERG Number

50

IMDG Marine pollutant

No

Transport in Bulk

Not available

Special Precautions for User

Not available

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS created: August 2018

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

END OF SDS

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