

SAFETY DATA SHEET

1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: **8413-11**
Nomenclature: **Feather Ice Inserts**
Recommended Use of the Chemical & Restrictions on Use:
Uses: Thermal management for medical therapy and personal comfort applications
Company Name: Allegro Industries
Address: 1360 Shiloh Church Rd
Piedmont, SC 29673
864-846-8740
Chemtrac: 800-424-9300

2. HAZARDS IDENTIFICATION

The powder contained in the plastic pouch can cause irritation to the eyes, dry skin, or chest discomfort if inhaled. When used as a cold compress this product may normally be applied directly to the skin; however, for individuals with sensitive skin the product should be wrapped in a light towel.

3. COMPOSITION

The principle components of the powder contained in the plastic pouch are water and synthetic amorphous silica. Potassium sorbate, sodium benzoate, and citric acid are added to the powder in small quantities to inhibit mold growth. These latter three additives are commonly used food preservatives and are not believed to affect the chemical and physical properties of the powder to any significant degree. The concentrations of the components are as follows:

Component	CAS Number	Weight Concentration, %
Water	7732-18-5	60 to 70
Synthetic Amorphous Silica	112926-00-8	30 to 40
Potassium Sorbate	24634-61-5	Less than 0.2
Sodium Benzoate	532-32-1	Less than 0.2
Citric Acid	77-92-9	Less than 0.1

4. FIRST AID MEASURES

The following procedures should be observed in the event of exposure to the powder in this product:

Eye Contact: Immediately rinse with clean water for fifteen minutes. Retract eyelid often during rinsing. If irritation persists, seek medical attention.
Skin Contact: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for fifteen minutes. Seek medical attention if ill effects or irritation develops.
Inhalation: Remove patient from exposure, keep warm and at rest. Seek medical assistance if ill effects or irritation persists.
Ingestion: Do not induce vomiting. Remove powder from mouth with water. Obtain medical attention if a large amount of the powder is swallowed or if symptoms develop.

5. FIRE FIGHTING MEASURES

The powder contained in the plastic pouch is not flammable. Use an extinguishing agent suitable for the surrounding area. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

6. ACCIDENTAL RELEASE MEASURES

If the plastic pouch is punctured or torn, discard the product in a sealed plastic bag. If powder is released from the pack, minimize the spill area as much as possible. Vacuum spilled material and place in a closed plastic bag for disposal. Observe the protection procedures in Sections 4 and 8.

7. HANDLING AND STORAGE

The Powder Pack™ product may be stored in any appropriate container such as a corrugated cardboard box in a clean, dry area. When handling the product care should be taken to not puncture or tear the plastic pouch. If the pouch is punctured or torn, follow the procedures in Section 6.

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8. EXPOSURE CONTROLS

Exposure limits for the silica component of the Powder Pack™ product are as follows:

Total inhalable dust: UK EH40: WEL 6 mg/m³ 8h TWA

Respirable dust: UK EH40: WEL 2.4 mg/m³ 8h TWA

OSHA: PEL 6mg/m³ 8h TWA

The following procedures should be observed in the event the powder is released from the plastic pouch and clean up is required:

Respiratory Protection: Use a respirator for protection against pneumoconiosis-producing dusts.

Ventilation: Provide explosion-proof ventilation as required to control airborne dust levels. Effective exhaust ventilation should always be provided to draw dust, fumes, and vapors away from workers to prevent routine inhalation. Ventilation should be adequate to maintain ambient workplace atmosphere.

Protective Gloves: Impervious gloves should be worn during packaging and handling of the powder to protect against contact with the product.

Eye Protection: Safety goggles should be worn when handling or packaging the material.

Other Protective Equipment: Protective clothing should be worn. An eye wash station should be available. A safety shower should also be provided.

Other Precautions: Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Free flowing powder

Color: White

Odor: Odorless

pH: No data

Specific Gravity: N/A

Boiling Point: Water component boils at approximately 100 degrees C

Melting Point: Water component (when frozen) melts at approximately 0 degrees C

Melting point of the silica component: > 1000 degrees C

Flash Point: N/A

Explosive Limits: N/A

Vapor Pressure: No data

Density: Approximately 0.4 grams/cc

Solubility in Water: No data

Vapor Density: No data

Viscosity: No data

10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity are available for the powder contained within the plastic pouch.

Chemical stability: The powder is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Stable under recommended storage and handling conditions (see section 7).

Incompatible materials: None known

Hazardous decomposition products: None known for the silica component

11. TOXICOLOGICAL INFORMATION

These silica component of the powder in the Powder Pack™ is not found on the following lists: U.S FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA. Therefore the silica component is neither considered to be nor suspected to be a cancer-causing agent by these agencies. Synthetic amorphous silica is a permitted food additive in the UK, USA and many other countries. It has been fully evaluated by the U.N codex alimentarius commission and given clearance for use as a food additive.

Mutagenicity, Embryotoxicity and Teratogenicity:

The silica component is not reported to produce mutagenic, embryotoxic, and teratogenic effects in humans.

Reproductive Toxicity: The silica component is not reported to cause reproductive effects in humans.

Sensitization Information: The silica component is not known to be sensitizing with repeated or prolonged use.

Animal Toxicity: LD 50 (ORAL, RAT)= >10000 mg/kg

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12. ECOLOGICAL INFORMATION

The silica component of the Powder Pack™ is virtually inert and has no known adverse effect on the environment.

Ecotoxicological Information:

EC0 : >1000 PPM (daphnia magna) (24-hours acute immobilization test)

EC0: >10000 PPM (rainbow trout) (4-days static study)

EC0: >10000 PPM (freshwater fish) (96-hours static acute toxicity study)

Ectotoxicity Data: LD 50 (CARP)= 10000 mg/ lt /72 hrs

13. DISPOSAL CONSIDERATIONS

Disposal of the Powder Pack™ pouch and contained powder should be in accordance with local, state, and federal regulations.

Usual disposal method is in a controlled land fill.

14. TRANSPORT INFORMATION

The silica component of the Powder Pack™ is not classified as hazardous under DOT or US Transport Recommendations.

15. REGULATORY INFORMATION

EC Classification: Not classified as dangerous for supply/use.

Safety Phrases: Handle in accordance with good industrial hygiene and safety practices. Avoid inhalation of dusts.

TSCA Inventory Status: Reported/Included. CAS No. 7631-86-9

AICS Inventory Status: Reported/Included.

DSL/NDSL Inventory Status: Reported/Included.

FDA: Silicon dioxide 21CFR 172.480

16. OTHER INFORMATION

Revision Date: January 22, 2018

Rev. F

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