

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: **8402, 8405-50, 8405-51, 8405-52, 8405-53, 8405-53V, 8405-54, 8405-55, 8405-58, 8405-59** **NFPA Code**  
Nomenclature: **Cool Vest and Cool-Offs (with Polymer Crystals)** H 0  
Company Name: Allegro Industries F 0  
Address: 7221 Oranewood Avenue R 0  
Garden Grove, CA 92841 O 0  
714-899-9855  
Chemtrac: 800-424-9300

## 2. COMPOSITION

Chemical Name: Absorbent Polymers and process aids  
Chemical Family: Polymers  
Synonyms: Super water absorbing Polymer Crystals

Ingredient:	Polymer (cross-linked Polynerylate) Polynerylate	Cross-linking agent	Cotton Product
Molecular Formula:	N/A	N/A	N/A
Molecular Weight:	N/A	N/A	N/A
CAS Number:	N/A	N/A	N/A
Percent:	98%	100%	2%

## 3. HAZARDS IDENTIFICATION

Physical Dangers: None Known  
Chemical Dangers: None Known  
Routes of Exposure: None Known  
Target Organs: Skin

**Health Hazards:**  
Inhalation: Should not be harmful if inhaled in amounts below ACGIH exposure guidelines.  
Skin Contact: Absorption unlikely to occur.  
Eye Contact: Dust may cause irritation to the eyes.  
Ingestion: Should not be harmful if ingested in amounts below ACGIH exposure guidelines.  
Chronic Exposure: May cause irritation on sensitive skin.  
Acute Exposure: May cause rash on sensitive skin.  
Aggr. of Pre-Ex Cond: Sensitive Skin.

## 4. FIRST AID MEASURES

Inhalation: None suggested. Crystals should not be harmful if inhaled in amounts below ACGIH exposure guidelines.  
Skin Contact: May cause skin irritation if not used according to instructions. Discontinue use if rash persists. Contact physician for further medical treatment.  
Eye Contact: Treat dust in eyes as foreign object. Flush with water to remove particles. Contact physician for medical treatment.  
Ingestion: None suggested. Crystals should not be harmful if swallowed in amounts below ACGIH exposure guidelines.

## 5. FIRE FIGHTING MEASURES

Fire Hazards: Crystals are non-flammable. Cotton outer fabric is combustible.  
Will burn if involved in a fire. Combustion products mainly will be compounds of carbon, hydrogen, and oxygen.  
Fire Extinguisher: Water or dry chemical.  
Explosion: Crystal dusts are potential explosion hazards. Explosion depends on dust concentration, moisture content, fiber length and heating rate.  
Flash Point: N/A  
Volatile (% by volume): N/A  
Exp. Limits (Vol % in air): N/A  
Auto Ignition Temperature: N/A  
Special Fire Fighting Proc: N/A  
PPE for Fire Fighters: Wear appropriate fire fighting gear and respiratory protection.  
Notes: Keep personnel removed from and upwind fire.

## 6. ACCIDENTAL RELEASE MEASURES

Procedure for spill/leak: Collect for recovery or disposal.  
Waste Disposal: N/A

## 7. HANDLING AND STORAGE

Storage: Store in a cool, dry location away from liquids, gases, and fumes. Keep away from heat sources and open flame sparks.  
Shelf Life: None  
PPE: Gloves if handling in large quantities.  
Notes: Product is absorbent, if exposed or has contact with liquids, gases, and/ or fumes absorption will take place.

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## 8. EXPOSURE CONTROLS

PPE: Outer garments may be desirable if exposed to dust. Personal protective equipment not needed around finished product.  
Inhalation: Wear particulate filter and/ or air purifying respirator when allowable exposure limits are exceeded.  
Skin: Wear gloves to minimize potential mechanical irritation from handling products.  
Eye: Wear safety glasses or goggles where high dust levels are encountered.  
Ingestion: Do not eat or drink while handling product.  
Ventilation: Use proper ventilation.  
Engineering Controls: Minimize practices that generate dust. Use general mechanical and/ or local exhaust ventilation to keep dust concentrations below exposure guidelines.  
Work/Hygienic Practices: Ensure skin where product is applied is clean. The moisture from the product will heighten any skin sensitivity to those individuals who are normally sensitive to wet clothing.

### Exposure Limits:

**Chemical:** **Particulates Not Otherwise Classified (PNOG)**  
TLV (ACGIH TLV): 10 mg/ m3 Inhalable  
PEL (OSHA PEL): 3mg/ m3 Respirable  
Control Parameter: N/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Appearance/Odor: Raw crystals are small (sand like) sized white & granular in water. Odorless.  
Boiling Point: N/A  
Melting Point: N/A  
Specific Gravity (H<sub>2</sub>O=1): N/A  
Refractive Index: N/A  
Relative Density: N/A  
Evaporative Rate: N/A  
Water Content: Only when activated.  
Vapor Density( Air-1): N/A  
Vapor Pressure: N/A  
Solubility in Water: Insoluble

## 10. STABILITY AND REACTIVITY

Conditions to avoid: Dust deposits on hot pipes and machines.  
Materials to avoid: See storage and handling section.

## 11. TOXICOLOGICAL INFORMATION

Health Effects: None Known.  
Oral LD50: N/A  
Dermal LD50: N/A  
Human Lethal Dose: N/A  
Notes: None

## 12. ECOLOGICAL INFORMATION

Product is not known to be hazardous to the environment.

## 13. DISPOSAL CONSIDERATIONS

Solid Waste Disposal Act/ Resource Conservation and Recovery Act (RCRA): Cooloffs discarded as purchased are not hazardous waste. They don't have characteristics of ignitability (40 CFR 251.21), corrosivity (40 CFR 261.22), or reactivity (40 CFR 261.23) and based on knowledge of its composition, should not exhibit toxicity characteristics (40 CFR 261.24). Furthermore, this product is not included among the lists of hazardous waste 40 CFR Part 261 Subpart D.

## 14. TRANSPORT INFORMATION

Proper shipping name: Cooling product.  
Transport Emergency Card: N/A  
Packing Group: N/A  
UN Number: N/A  
Reportable Quantity: N/A  
Notes: N/A

## 15. REGULATORY INFORMATION

TSCA Registered: Crystals made from chemical substance are included in the inventory of chemical substances.  
FDA Approved: No  
ICSC: N/A

## 16. OTHER INFORMATION

Cooloffs as an article by the Hazard Communication Standard 29 CFR 1910.1200 ©, and as such, a Material Safety Data Sheet is not required for this product. Nevertheless, this Material Safety Data Sheet is provided as a service.

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