**SECTION 1: NAME & HAZARD SUMMARY**
Material Name: Anionic Polyacrylamide
Synonyms: Snow, Snowflake, Acrylic Acid Polymer, Sodium Salt

**MOST IMPORTANT HAZARDS:** None

**PHYSICAL & CHEMICAL HAZARDS:** In the presence of an ignition source dust can form an explosive mixture with air. During thermal decomposition, toxic by-products can be released. Read the entire MSDS for a more thorough evaluation of the hazards.

**SECTION 2: INGREDIENTS**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>%</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Acid Polymer, Sodium Salt</td>
<td>90% by weight)</td>
<td>less than 10%</td>
</tr>
<tr>
<td>CAS No. 9003-04-7</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications.

**SECTION 3: PHYSICAL DATA**

- Appearance and odor: White granular powder
- Bulk Density: 0.62 to 0.74 g/ml
- Decomposition Point: ca. 330 degrees C
- Solubility in H2O: Swells in water
- Auto-ignition Temperature: Above 400 degrees C

**SECTION 4: FIRE AND EXPLOSION HAZARD**

**SUITABLE EXTINGUISHING MEDIA:**
- Water spray
- Dry powder
- Carbon dioxide (CO2)
- Foam

**SPECIFIC HAZARDS:** In the presence of an ignition source, dust can form explosive mixture with air in an enclosed space.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:**
Wear protective clothing, safety goggles and self-contained breathing apparatus.
SECTION 4: FIRE AND EXPLOSION HAZARD DATA

General Fire Hazards
No recognized fire hazards

Fire and Explosive Properties
Flammability Classification: None
Flash Point NA
Flammable Limits - Upper  NE
Lower  NE

Hazardous Combustion Products
None known.

Extinguishing Media
Flash Point Method
Dry chemical, foam, carbon dioxide, and water fog. Extremely slippery conditions are created if spilled product comes in contact with water.

Fire Fighting Instructions
Firefighters should wear full protective clothing including self-contained breathing apparatus.

NFPA Ratings:
Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION 5: HANDLING, STORAGE, STABILITY AND REACTIVITY DATA

HANDLING PRECAUTIONS: Storage and handling precautions applicable to products; Dust could form an explosive mixture with air in the presence of an ignition source. Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated. (Do not permanently recycle unfiltered air). Avoid dust formation. Avoid accumulation of static charges. Avoid spillage on the floor, product becomes slippery when wet.

STORAGE CONDITIONS: Keep container tightly closed. Store protected from moisture. Keep away from heat and sources of ignition. Provide electrical grounding of equipment and electrical equipment usable in explosive atmosphere.

PACKING MATERIALS: Paper bags lined with polyethylene or polypropylene film

CONDITIONS TO AVOID Store protected from moisture. Keep away from heat and sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS Temperature above 200 degrees C, Thermal decomposition giving toxic products; organic vapors, carbon monoxide

FURTHER INFORMATION Polymer swells in presence of water.
SECTION 6: HEALTH HAZARD ASSESSMENT

Emergency Overview

Anionic Polyacrylamide is a white, granular, odorless polymer that yields a gel-like material with the addition of water. It is insoluble in water and causes extremely slippery conditions when wet. Although not regulated as a hazardous material, the respirable dust is potential respiratory tract irritant. The manufacturer recommends an eight-hour exposure limit of 0.05 mg/m³.

Potential Health Effects: Eyes
Dust may cause burning, drying, itching, and other discomfort, resulting in reddening of the eyes.

Potential Health Effects: Skin
Exposure to the dust, such as in manufacturing, may aggravate existing skin conditions due to drying effect.

Potential Health Effects: Ingestion
Although not a likely route of entry, tests have shown that polyacrylate absorbents are non-toxic if ingested. However, as in any instance of non-food consumption, seek medical attention in the event of any adverse symptoms.

Potential Health Effects: Inhalation
Exposure to respirable dust may cause respiratory tract and lung irritation and may aggravate existing

SECTION 7: SPILL, LEAK AND WASTE DISPOSAL INFORMATION

Containment Procedures
Sweep or vacuum material when possible and shovel into a waste container.

Clean up procedures
Use caution after contact of product with water, as extremely slippery conditions will result. Residuals maybe flushed with water into the drain for normal wastewater treatment. This is a non-hazardous waste suitable for disposal in an approved solid waste landfill.

Evacuation Procedures
None required.

Special Procedures
Avoid respirable dust inhalation during clean up. Wear appropriate respirator.

SECTION 8: FIRST AID AND SPECIAL PROTECTION INFORMATION

First Aid
First Aid: Eyes
Immediately flush with plenty of water. Remove particles remaining under the eyelids. Get medical attention if irritation persists. First Aid: Skin Remove polyacrylate absorbent dust from skin using soap and water.
SECTION 8 FIRST AID AND SPECIAL PROTECTION INFORMATION

First Aid: Ingestion
Non-toxic by ingestion. However, if adverse symptoms appear, seek medical attention.

First Aid: Inhalation
If inhaled, move to source of fresh air. Seek medical attention if symptoms persist.

Exposure Guidelines
A: General Product Information
This product is not regulated as a hazardous material. However, the manufacturer recognizes the potential for respiratory tract irritation and recommends an eight-hour exposure limit of 0.05 mg/m3.

B: Component Exposure Limits
No information available.

Engineering Controls
Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m3 over an eight-hour period.

Personal Protective Equipment
Personal Protective Equipments: Eyes/Face
Wear safety glasses with side shields or goggles.

Personal Protective Equipments: Skin
Use impervious gloves when handling the product in the manufacturing environment.

Personal Protective Equipment
Personal Protective Equipments: Respiratory
Wear respirator with a high efficiency filter is particulate concentration in the work area exceeds 0.05 mg/m3 an eight hour time period.

Personal Protective Equipment
Personal Protective Equipments: General
Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

SECTION 9 TOXICOLOGY
Corrosiveness none
Acute Toxicity Oral rat LD50: 2,000 mg/kg
Skin Irritation Not an irritant (Human, Rabbit)
Eye Irritation Not an irritant (Rabbit)
Vaginal Mucosal Irritation Not an irritant (Dog)
Ames Mutagenicity Test Non-mutagenic
Skin contact sensitization Non-sensitizing (Rat)
Symptoms of Exposure Dust may cause eye, nasal, or bronchial irritation.
Cytotoxicity Non-cytotoxicity (L929 cell)
SECTION 10 REGULATORY INFORMATION

US Federal Regulations
A: General Product Information
   This product is not federally regulated as a hazardous material.

B: Clean Air Act
   No information is available.

C: Component Analysis
   No information available.

D: Food and Drug Administration
   No information available.

State Regulations
A: General Product Information
   This product is not regulated by any state as a hazardous material.

B. Component Analysis – State
   None of this product’s components are listed on the state lists from CA, FL, MA, NJ, or PA.

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