

1-4-17

# MSDS • Sodium Polyacrylate • "Snow"

ANIONIC POLYACRYLAMIDE (SNOWFLAKE)

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## SECTION 1: NAME & HAZARD SUMMARY

Material Name: Sodium Polyacrylate      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

	%	OSHA PEL
Acrylic Acid Polymer, Sodium Salt CAS No. 9003-04-7	90% by weight)	
Water 7732-18-5	less than 10%)	

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

## SECTION 3: PHYSICAL DATA

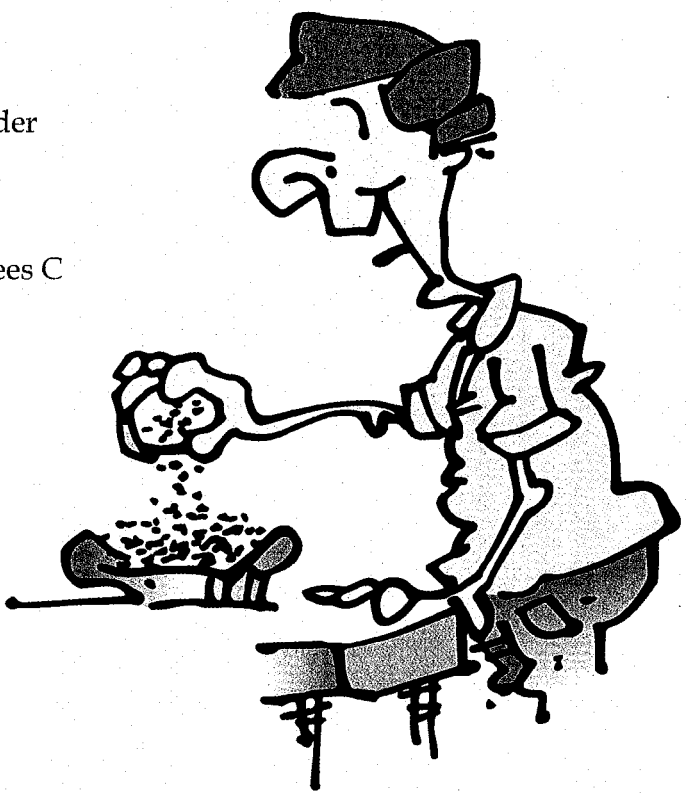
Appearance and odor: White granular powder  
Bulk Density 0.62 to 0.74 g/ml  
Decomposition Point ca.330 degrees C  
Solubility in H2O Swells in water  
Auto-ignition Temperature Above 400 degrees C

## 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

Sodium polyacrylate 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/m<sup>3</sup>.

### 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/m<sup>3</sup>.

#### B: Component Exposure Limits

No information available.

### Engineering Controls

Provide local exhaust ventilation to maintain worker exposure to less than 0.05 mg/m<sup>3</sup> 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 if particulate concentration in the work area exceeds 0.05 mg/m<sup>3</sup> an eight hour time period.

#### 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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