

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: *Texas Snow*™ EFFECTIVE DATE: 19 August 2009

CHEMICAL FAMILY: Polyacrylate salt

CHEMICAL NAME: Acrylic Acid, Polymers, Sodium Salt

COMPANY IDENTIFICATION:

WaterGelCrystals

10317 Vigilante Trail, Converse TX 78109 USA

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## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

### CAS # Component Percent OSHA HAZARD

9033-79-8 Acrylic Acid, Polymers, Sodium Salt

### Component Information / Information on Non-Hazardous Components

The components of this product are not regulated as hazardous under 29 CFR and 49 CFR. However, the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust is recognized. See Sections 8, 11, 14, and 15 for further regulatory information.

## SECTION 3 – HAZARDS IDENTIFICATION

### 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. An eight-hour exposure limit of 0.05 mg/m<sup>3</sup> is recommended.

### 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 respiratory conditions.

### HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic Hazard

Effective Date: 07/15/2008 Revision: 1

## SECTION 4 – FIRST AID MEASURES

### 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.

### 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.

## SECTION 5 – FIRE-FIGHTING MEASURES

### General Fire Hazards

No recognized fire hazards associated with the finished product.

### Fire and Explosive Properties

Flammability Classification: None

Flash Point NA Flash Point Method

Flammable Limits - Upper NE

Lower NE

### Hazardous Combustion Products

None known.

### Extinguishing Media

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 \* = Chronic Hazard

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

### **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 may be 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.

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## **SECTION 7 – HANDLING AND STORAGE**

### **Handling**

Handle as an eye and respiratory tract irritant.

### **Storage**

Store in a dry, closed container.

## **SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION**

### **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 Equipments: Respiratory**

Wear respirator with a high efficiency filter if particulate concentration in the work area exceeds 0.05 mg/m<sup>3</sup> over an eight hour time period.

### **Personal Protective Equipments: General**

Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Odor White Granular Powder, no odor

Specific Gravity (Bulk Density) 0.62 – 0.74 g/ml

Melting Point > 330 °C

Solubility in Water Swells in water

Auto-Ignition Temperature > 400 °C

## **SECTION 10– STABILITY AND REACTIVITY**

### **Chemical Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

### **Chemical Stability: Conditions to Avoid**

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

### **Incompatibility**

None

### **Hazardous Decomposition Products**

Decomposition above 200 °C.

### **Hazardous Polymerization**

Will not occur.

Effective Date: 11/01/06 Revision: 5

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Acute and Chronic Toxicity

#### A: General Product Information:

Corrosiveness None<sub>1</sub>

Acute oral toxicity: LD<sub>50</sub> rat > 2000 mg/kg<sub>1</sub>

Skin irritation: Not an irritant (human, rabbit) <sub>1</sub>

Eye irritation: Not an irritant (rabbit) <sub>1</sub>

Vaginal Mucosal Irritation Not an irritant (dog) <sub>1</sub>

Ames Mutagenicity Test Non-mutagenic<sub>1</sub>

Skin Contact sensitization Non-sensitizing (rat) <sub>1</sub>

Symptoms of Exposure Dust may cause eye, nasal, or bronchial irritation

Cytotoxicity Non-cytotoxic (L929 cell)

<sub>1</sub> = data of contracted outside laboratory

#### Carcinogenicity:

##### Component Carcinogenicity

No information is available.

##### Chronic Toxicity

Chronic inhalation exposure to rates for a lifetime (two years) using sodium polyacrylate that had been micronized to a respirable particle size (less than 10 microns) produced non-specific inflammation and chronic lung injury at 0.2 mg/m<sup>3</sup> and 0.8 mg/m<sup>3</sup>. Also, at 0.8 mg/m<sup>3</sup>, tumors were seen in some test animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects detected at 0.05 mg/m<sup>3</sup>.

## SECTION 12 – ECOLOGICAL INFORMATION

### Ecotoxicity

#### A: General Product Information

Composted polyacrylate absorbents are non-toxic to aquatic or terrestrial organisms at predicted exposure levels.

#### B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No information available.

#### Environmental Fate

Polyacrylate absorbents are relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (> 90% retention), with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental down-the-drain disposal of small quantities of polyacrylic absorbents will not affect the performance of wastewater treatment systems.

## SECTION 13 – DISPOSAL CONSIDERATIONS

### US EPA Waste Number & Descriptions

#### A: General Product Information

This product is a non-hazardous waste material suitable for approved solid waste landfills.

#### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

#### Disposal Instructions

Dispose of in accordance with Local, State, and Federal Regulations. Effective Date: 07/15/2008 Revision: 1

## SECTION 14 – TRANSPORTATION INFORMATION

### International Transportation Regulations

This product is not transport regulated.

## SECTION 15 – 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.

**SECTION 15 –REGULATORY INFORMATION, continued**

**Component Analysis – Inventory**

**Component CAS # TSCA EINECS(EC) ENC (Japan)**

Sodium Polyacrylate 9033-79-8 Yes Yes Yes

**SECTION 16 – OTHER INFORMATION**

**Revision Information:**

Revision Date: 15 July 2008

Supersedes Revision Dated: 16 June 2008

**Reason for Revision:** Update Section 1 with corrected spelling.

**MSDS Author:** Dr. Donald Carr, QAE, CCPS

Key: N/A – Not Applicable; NE – Not Established

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