

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: **AT-03S** EFFECTIVE DATE: February 9, 2022

CHEMICAL FAMILY: Polyacrylate salt

CHEMICAL NAME: Acrylic Acid, Polymers, Sodium Salt

COMPANY IDENTIFICATION:

Crystals
10317 Vigilante Trail
Converse TX 78109 USA
1-210-659-2710

EMERGENCY TELEPHONE: 24 hours a day, 7 days a week
CHEMTREC 1-800-424-9300 COMPANY CODE: EMTE

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent	OSHA HAZARD
9003-79-8	Acrylic Acid, Polymers, Sodium Salt		
Not Available	Post Treated – Trade Secret		

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 manufacturer recognizes the potential for respiratory tract irritation as a result of inhalation of this material as a respirable dust. 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. 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 respiratory conditions. Refer to Section 6 for important containment procedures.

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

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

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.

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/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 Equipments: Respiratory

Wear respirator with a high efficiency filter if particulate concentration in the work area exceeds 0.05 mg/m³ 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.

SECTION 11 – TOXICOLOGICAL INFORMATION**Acute and Chronic Toxicity****A: General Product Information:**

Corrosiveness	None ¹
Acute oral toxicity:	LD ₅₀ rat > 2000 mg/kg ¹
Skin irritation:	Not an irritant (human, rabbit) ¹
Eye irritation:	Not an irritant (rabbit) ¹
Vaginal Mucosal Irritation	Not an irritant (dog) ¹
Ames Mutagenicity Test	Non-mutagenic ¹
Skin Contact sensitization	Non-sensitizing (rat) ¹
Symptoms of Exposure	Dust may cause eye, nasal, or bronchial irritation
Cytotoxicity	Non-cytotoxic (L929 cell)

¹ = 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/m³ and 0.8 mg/m³. Also, at 0.8 mg/m³, 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/m³.

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.

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 is 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.

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: NA

Supercedes Revision Dated: NA

Reason for Revision: NA

Key: N/A – Not Applicable

NE – Not Established

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