



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: *Slurry Slayer*<sup>TM</sup>

EFFECTIVE DATE: 6 December 2011

CHEMICAL FAMILY: Polyacrylate salt

CHEMICAL NAME: Sodium polyacrylate

COMPANY IDENTIFICATION:

Slurry Slayer  
224A Log Canoe Circle  
Stevensville, MD USA

NON-EMERGENCY TELEPHONE:  
(410)-643-4073

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

## 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/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 respiratory conditions. Refer to Section 6 for important containment procedures.

**HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0 Personal Protection: B**

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

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent	OSHA HAZARD
9003-04-7	Sodium Polyacrylate		
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 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**

Avoid respirable dust. Do not sweep product. When possible, vacuum the product using a HEPA filter (mandatory when using a vacuum). If no vacuum is available, moisten the product, scoop up and place into an approved disposable 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 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
pH	5.5 – 6.5 (1% in water)
Specific Gravity (Bulk Density)	0.4 – 0.7 g/ml
Vapor Pressure	< 10 mm Hg
Vapor Density	NE
Melting Point	> 390 °F
Freezing Point	NA
Boiling Point	NA
Solubility in Water	Insoluble
Evaporation Rate (%)	< 1.0



## 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

None

### 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:

Acute inhalation of respirable dust may cause irritation of the upper respiratory tract and lungs.

#### B: Acute Toxicity – LD<sub>50</sub>/LC<sub>50</sub>

Acute oral toxicity:	LD <sub>50</sub> rat Dose: > 5000 mg/kg Method: Limit Test
Acute dermal toxicity:	LD <sub>50</sub> rat Dose: > 2000 mg/kg Method: Limit Test
Skin irritation:	Rabbit Method: OECD Nr. 404 Not irritant
Eye irritation:	Rabbit Method: OECD Nr. 405 Very slight irritant
Sensitization:	Guinea pig Method: OECD Nr. 406 Result: 0/20 No sensitization

### 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>.

#### Mutagenicity

Sodium polyacrylate had no effect in mutagenicity tests.



## 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: Ecotoxicity

Biodegradability:	Method: OECD Nr. 302B Practically no degradation.
Physico-chemical removability:	The product is easy to eliminate in water-treatment plants due to its insolubility.
Ciliate toxicity:	<i>Tetrahymenda pyriformis</i> EC <sub>50</sub> > 6000 mg/ Method: Erlanger Ciliate Tests (Prof Graf)
Bacterial toxicity:	<i>Ps. Putida</i> EC <sub>50</sub> > 6000 mg/l 24 hr exposure
Fish toxicity:	<i>Leuciscus idus</i> LC <sub>50</sub> > 5,500 m/l 24 hr. exposure
Fish toxicity:	<i>Brachydanio rerio</i> LC <sub>50</sub> > 4,000 mg/l 96 hour exposure

### 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 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 – WHMIS IDL**

No components are listed in the WHMIS IDL.

**Component Analysis – Inventory**

Component	CAS #	TSCA	CAN	EEC
Sodium Polyacrylate	9003-04-7	Yes	DSL	Not regulated as a polymer.

**SECTION 16 – OTHER INFORMATION**

**Revision Information:**

Revision Date: NA

Supersedes Revision Dated: NA

**Reason for Revision:** Review and update all sections to conform to ANSI recommendations.

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

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