



## M<sup>2</sup> Polymer Technologies, Inc.

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SAFETY DATA SHEET: May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

EFFECTIVE DATE: January 10, 2014

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### SECTION I CHEMICAL PRODUCT & SUPPLIER'S IDENTIFICATION

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**Product Name:** Waste Lock<sup>®</sup> A100  
**Chemical Name:** Sodium Polyacrylate, Crosslinked

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### SECTION II HAZARD IDENTIFICATION

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#### 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 information.

#### Emergency Overview

Sodium polyacrylate is a white, granular, odorless polymer that forms a gel-like material with water. It is insoluble in water and causes slippery conditions when wet. Although not regulated as a hazardous material, the respirable dust is a 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

Dust exposure, such as in manufacturing, may aggravate existing skin conditions due to drying.

#### Potential Health Effects - Ingestion

Not a likely route of entry. Tests show that polyacrylate absorbents are non-toxic if ingested. However, as in the instance of any non-food consumption, seek medical attention in the event of any adverse symptoms.

#### Potential Health Effects - Inhalation

Respirable dust exposure may cause respiratory tract & lung irritation and may aggravate existing respiratory conditions.

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

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

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### SECTION III COMPOSITION / INGREDIENT INFORMATION

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CAS #	Component	Percent
09003-04-7	Sodium polyacrylate	>99 %
Not Available	Post Treated – Trade Secret	< 0.5 %

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### SECTION IV FIRST AID MEASURES

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#### First Aid - Eyes

Immediately flush eyes with water for at least 15 minutes.

#### First Aid - Skin

Remove polyacrylate absorbent dust from skin using soap and water.

#### First Aid - Ingestion

Non-toxic. 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.

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**SECTION V****FIRE FIGHTING MEASURES**

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**General Fire Hazards**

No recognized fire hazards associated with the product.

<b>Upper Flammable Limit (UFL):</b>	<b>NE</b>
<b>Lower Flammable Limit (LFL):</b>	<b>NE</b>
<b>Method Used:</b>	<b>None</b>
<b>Flash Point:</b>	<b>None</b>
<b>Flammability Classification:</b>	<b>None</b>

**Hazardous Combustion Products**

None known.

**Extinguishing Media**

Dry chemical, foam, carbon dioxide, water fog. Slippery conditions are created if spilled products comes in contact with water.

**Fire Fighting Equipment/Instructions**

Firefighters should wear full protective clothing including self contained breathing apparatus,

**NFPA Ratings: Health=1 Fire=1 Reactivity=0**

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

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**SECTION VI****ACCIDENTAL RELEASE MEASURES**

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**Containment Procedures**

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

**Clean Up Procedures**

Use caution if product comes in contact with water as slippery conditions may result. Waste residual may be flushed down a drain with water for normal wastewater treatment. This is a non-hazardous waste suitable for disposal in any approved solid waste landfill.

**Evacuation Procedures**

None required.

**Special Procedures**

Avoid respirable dust. Wear a nuisance style dust mask if dusty conditions occur.

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**SECTION VII****HANDLING AND STORAGE**

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**Handling Procedures**

Handle as an eye and respiratory tract irritant.

**Storage Procedures**

Store in a dry, closed container.

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**SECTION VIII****EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Exposure Guidelines****I. General Product Information**

The product is not regulated as a hazardous material. There is however a potential for respiratory tract irritation and an eight-hour exposure limit of 0.05 mg/m<sup>3</sup> is recommended.

**II. Component Exposure Limits**

No information is available.

**Engineering Controls**

Provide local exhaust ventilation to maintain exposure to < 0.05 mg/m<sup>3</sup> over eight hours.

**Personal Protective Equipment – Eyes & Face**

Safety glasses with side shields or goggles.

**Personal Protective Equipment – Skin**

Use impervious gloves when handling the product in a manufacturing environment.

**Personal Protective Equipment – Respiratory**

Wear a nuisance style dust mask for mild dusty conditions or a high efficiency filter if particulate concentrations exceed 0.05 mg/m<sup>3</sup>.

**Personal Protective Equipment – General**

Follow normal safety precautions and maintain good housekeeping. Wash thoroughly after handling.

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**SECTION IX****PHYSICAL & CHEMICAL PROPERTIES**

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<b>Appearance:</b>	White granular powder	<b>Odor:</b>	None
<b>Physical State:</b>	Solid	<b>pH:</b>	5.5 to 6.5 (1% in water)
<b>Vapor Pressure:</b>	<10 mm Hg	<b>Vapor Density:</b>	N.E.
<b>Boiling Point:</b>	N.A.	<b>Melting Point:</b>	> 390°F (> 199° C)
<b>Solubility (H<sub>2</sub>O):</b>	Not soluble	<b>Specific Gravity:</b>	0.4 to 0.7 g/cc
<b>Evaporation Rate:</b>	< 1.0		

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**SECTION X****CHEMICAL STABILITY & REACTIVITY INFORMATION**

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**Chemical Stability**

Product is stabile.

**Chemical Stability: Conditions to Avoid**

None

**Incompatibility**

None

**Hazardous Decomposition**

None

**Hazardous Polymerization**

None

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**SECTION XI****TOXICOLOGICAL INFORMATION**

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**General Product Information**

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

**Acute Toxicity – LD50/LC50**

Sodium polyacrylate (CAS 09003-04-7)

LD50: Oral Rat 40 grams/kilogram

**Carcinogenicity**

None

**Component Carcinogenicity**

No information is available.

**Chronic Toxicity**

Chronic exposure to rats for a two-year lifetime using Sodium Polyacrylate that had been micronized to a respirable size (< 10 µm) 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.

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**SECTION XII****ECOLOGICAL INFORMATION**

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**Ecotoxicity****General Product Information**

Composted polyacrylate absorbents are nontoxic to aquatic or terrestrial organisms at predicted exposure levels from current application rates.

**Component Analysis – Ecotoxicity & Aquatic Toxicity**

No information available

**Environmental Fate**

Polyacrylate absorbents are largely inert in aerobic and anaerobic conditions. They are immobile in landfills and soils systems with the mobile fraction showing biodegradability. They are also compatible with incineration of municipal solid waste. Incidental drain disposal of small quantities of polyacrylate absorbents will not affect the performance of wastewater treatment systems.

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**SECTION XIII****DISPOSAL CONSIDERATIONS**

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**US EPA Waste Number & Descriptions****General Product Information**

Product is non-hazardous waste material suitable for approved solid waste landfills.

**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.

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**SECTION XIV** **TRANSPORTATION INFORMATION**

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**International Transportation Regulations**

The product is not transport regulated.

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**SECTION XV** **REGULATORY INFORMATION**

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**U.S. Federal Regulations****General Product Information**

The product is not Federally regulated as a hazardous material.

**Clean Air Act**

No information available.

**Component Analysis**

No information available.

**Food & Drug Administration**

Code of Federal Regulations (CFR) references the following regulated components:

Sodium Polyacrylate (CAS 09003-04-7)

Direct Food Additives: 173.73, 173.310

Indirect Food Additives: 175.105

**State Regulations****General Product Information**

The product is not regulated by any State as a hazardous material.

**Component Analysis - State**

None of the components are listed on State lists from CA, FL, MA, MN, NJ or PA.

**Component Analysis – WHMIS IDL**

None of the components are listed in the WHMIS IDL.

**Component Analysis - Inventory**

Component	CAS #	TSCA	CAN	EEC
Sodium Polyacrylate	09003-04-7	Yes	DSL	No

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**SECTION XVI** **OTHER INFORMATION**

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**Other Information**

The information presented in this document is presented in good faith and is believed to be accurate as to the effective date given. However, no warranty, expressed or implied is given. It is the buy's responsibility to ensure that its activities comply with Federal, State or provincial and local laws.