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Sent: Thursday, January 26, 2017 10:48 AM
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Subject: Accidental soil release, KAFB RAPID PT area 1-25-17

Hello Mr. Kieling,

Please find below a summary of an accidental release of approximately 1/4 to 1/2 cubic yard semi-saturated soil at the KAFB bioremediation pilot test area construction zone immediately south of Randolph Rd, on Kirtland AFB. We are making this notification under section 1.27 of KAFB Hazardous Waste Treatment Facility Operating Permit, NM9570024423. This happened at 12:30 on 1-25-17.

While attempting to move a roll-off bin, the waste transport and disposal company tipped the front end of the roll-off bin, and the semi-saturated material ran over the tailgate and onto the ground. The silt fence along the southern edge of the construction site stopped the spill and it was all contained within the construction site. The spilled soil was cleaned up with a vacuum truck and placed back into the roll-off bin. An additional 2 to 3 inches of native soil was also removed from under the footprint of the spill and was containerized.

The spilled soil likely contained some hydrosorb material (powdery solid) which was placed in the roll-off bin for the purpose of "dewatering" the waste soil prior to disposal. The SDS for the hydrosorb is attached. Under SDS section VI, the recommended clean-up procedure is to containerize for landfill disposal. All soil containing hydrosorb was re-containerized in the roll-off bin for eventual landfill disposal.

The dimensions of the spilled soil covered an area approximately 30 inches wide x 10 feet long x 6 inches deep. Attached are some photos showing the released soil on the ground as well as the ground after removal of both spilled soil and some native soil.

Confirmation samples will be obtained to characterize the nature of the spill, and a follow-up report will be submitted within 15 days. Samples will be analyzed for VOCs (8260), SVOCs (8270), and metals (iron, lead, and manganese (6010)).

In addition to this email, I placed a call and left a message on voicemail – but if there are any questions just let us know.

Thanks,

Scott



//SIGNED//

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JAN/25/2017









M² Polymer Technologies, Inc.

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West Dundee, IL 60118 USA
Tel. 847-836-1393
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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 2, 2014

SECTION I CHEMICAL PRODUCT & SUPPLIER'S IDENTIFICATION

Product Name: Waste Lock[®] 770
Chemical Name: Sodium Polyacrylate, Crosslinked

M² Polymer Technologies, Inc.
P.O. Box 365
West Dundee, IL 60118

Telephone Number for Information: 847/836-1393
Last Update : January 2, 2014

SECTION II HAZARD IDENTIFICATION

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/m³ 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

SECTION III COMPOSITION / INGREDIENT INFORMATION

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

HMIS Ratings: Health 1 Fire 1 Reactivity 0

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

SECTION IV FIRST AID MEASURES

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.

SECTION V FIRE FIGHTING MEASURES

General Fire Hazards

No recognized fire hazards associated with the product.

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

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

SECTION VI ACCIDENTAL RELEASE MEASURES

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.

SECTION VII HANDLING AND STORAGE

Handling Procedures

Handle as an eye and respiratory tract irritant.

Storage Procedures

Store in a dry, closed container.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

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/m³ is recommended.
- II. **Component Exposure Limits**
No information is available.

Engineering Controls

Provide local exhaust ventilation to maintain exposure to < 0.05 mg/m³ 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/m³.

Personal Protective Equipment – General

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

SECTION IX PHYSICAL & CHEMICAL PROPERTIES

Appearance:	White granular powder	Odor:	None
Physical State:	Solid	pH:	5.5 to 6.5 (1% in water)
Vapor Pressure:	<10 mm Hg	Vapor Density:	N.E.
Boiling Point:	N.A.	Melting Point:	> 390°F (> 199° C)
Solubility (H₂O):	Not soluble	Specific Gravity:	0.4 to 0.7 g/cc
Evaporation Rate:	< 1.0		

SECTION X CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability

Product is stable.

Chemical Stability: Conditions to Avoid

None

Incompatibility

None

Hazardous Decomposition

None

Hazardous Polymerization

None

SECTION XI TOXICOLOGICAL INFORMATION

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/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.

Mutagenicity

Sodium polyacrylate had no effect in mutagenicity tests.

SECTION XII ECOLOGICAL INFORMATION

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.

SECTION XIII DISPOSAL CONSIDERATIONS

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.

SECTION XIV TRANSPORTATION INFORMATION

International Transportation Regulations

The product is not transport regulated.

SECTION XV REGULATORY INFORMATION

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

SECTION XVI OTHER INFORMATION

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.