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: PHOSCLEAR® (Water Treatment Compound)
Chemical Name: Buffered Aluminum Sulfate

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

Phosclear is a white, granular, odorless powder. The components dissolve readily in water. Although not regulated as a hazardous material, the respirable dust is a potential respiratory tract irritant.

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 Alum & Soda Ash 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 0 Reactivity 0

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

SECTION III COMPOSITION / INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>10043-01-3</td>
<td>Aluminum Sulfate (Alum)</td>
<td>60-90%</td>
</tr>
<tr>
<td>497-19-8</td>
<td>Sodium Carbonate (Soda Ash)</td>
<td>10-40%</td>
</tr>
</tbody>
</table>

SECTION IV FIRST AID MEASURES

First Aid - Eyes

Immediately flush eyes with water for at least 15 minutes.

First Aid - Skin

Remove 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.

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Flammable Limit (UFL)</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Lower Flammable Limit (LFL)</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>OSHA Flammability Classification</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Hazardous Combustion Products
None known.

Extinguishing Media
Water spray, foam, carbon dioxide or dry chemical.

Fire Fighting Equipment/Instructions
Firefighters should wear full protective clothing including self contained breathing apparatus, NFPA Ratings:
- Health = 1
- Fire = 0
- Reactivity = 0

NFPA 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
Shovel material and place in clean, dry container and cover. Collect Liquid and/residue and dispose of in accordance with applicable regulations.

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
Avoid contact with skin, eyes & clothing. Avoid breathing dust. Wash thoroughly after handling.

Storage Procedures
Store in a dry, closed container. Product is HYGROSCOPIC and will slowly absorb moisture from the air causing the material to clump and to harden.

SECTION VIII  EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines
Aluminum Sulfate
- ACGIH TLV = 2 mg/m³
- OSHA PEL = 2 mg/m³

Engineering Controls
Provide local exhaust ventilation to maintain exposure to < 0.05 mg/m³ over eight hours.

Personal Protective Equipment – Eyes & Face
Wear safety goggles. Do not wear contact lens.

Personal Protective Equipment – Skin
Wear appropriate clothing to prevent skin contact.

Personal Protective Equipment – Respiratory
Wear a nuisance style dust mask for mild dusty conditions or a high efficiency filter if particulate concentrations are excessively dusty.

Personal Protective Equipment – General
Follow normal safety precautions and maintain good housekeeping. Wash thoroughly after handling.
SECTION IX PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White granular powder</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>pH</td>
<td>5.5 to 6.5 (1% in water)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility (H₂O)</td>
<td>Not soluble</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.5 to 2.0</td>
</tr>
</tbody>
</table>

SECTION X CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability
Product is stable.

Chemical Stability: Conditions to Avoid
Avoid temperatures above 760°C as this may yield toxic & corrosive gases.

Incompatibility
Alkalis and water reactive materials such as oleum can cause exothermic reactions.

Hazardous Decomposition
At highly elevated temperatures, sulfur oxides may be formed. These are toxic and corrosive and are oxidizers.

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
Aluminum Sulfate (CAS 10043-01-3)
LD₅₀ Oral: 1930 mg/kg (rat)
LD₅₀ Oral: 6207 mg/kg (mouse)

Carcinogenicity
None

Component Carcinogenicity
There are no known carcinogenic chemicals in this product.

Mutagenicity
None

SECTION XII ECOLOGICAL INFORMATION

Ecotoxicity LC₅₀ in Freshwater Fish
Aluminum Sulfate (CAS 10043-01-3)
LC₅₀: 100 mg/L Carassius auratus 96 h
LC₅₀: 37 mg/L Gambusia affinis 96 h

General Product Information
The components of PHOSCEAR are readily soluble in water and approved for water treatment application by the AWWA.

Component Analysis – Ecotoxicity & Aquatic Toxicity
Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Environmental Fate
The Aluminum Sulfate in PHOSCLEAR reacts rapidly with soluble ortho-phosphate in water forming a highly insoluble precipitate Aluminum Phosphate (AlPO₄) which forms as a nearly invisible floc on the bottom of a treated lake, pond or decorative water feature.

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
DOT Hazard Class  9  (for Alum)
UN-No. UN3077
Packaging Group PGIII

SECTION XV  REGULATORY INFORMATION

General Product Information
The product is not Federally regulated as a hazardous material.

International Inventories
TSCA Yes
DSL Yes
ELINCS No
EINECS Yes
ENCS Yes
China Yes
KECL Yes
PICCS Yes
AICS Yes

U.S. Federal Regulations
SARA 313:  Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
This product contains the following chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:
NONE

SARA 311/312 Hazardous Categorization
Chronic Health Hazard No
Acute Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

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

Component Analysis – WHMIS IDL
Alum is classified as WHMIS Hazard Class D2B Toxic Materials

Component Analysis – Inventory

State Regulations
California Proposition 65    This product does not contain any Proposition 65 chemicals

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.