



## 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: April 24, 2015

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

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**Product Name:** TOTALSORB®  
**Chemical Name:** Expanded Amorphous Alumina Silicate

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Telephone Number for Information: 847/836-1393  
Last Update : April 24, 2015

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### SECTION II HAZARD IDENTIFICATION

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#### Emergency Overview

The product contains crystalline silica (< 1%). OSHA considers minerals such as this to be a nuisance dust. Inhalation of high amounts of dust over long periods may overload lung clearance mechanisms and make the lungs more vulnerable to respiratory disease. Long term inhalation of crystalline silica dusts may cause silicosis (lung cancer). Crystalline silica has been classified as a probable human carcinogen (Group 2A) by IARC, a unit of the World Health Organization. The silica dusts have been classified a carcinogen by NTP and/or OSHA.

#### Potential Health Effects - Eyes

Dust may cause irritation (tears & Redness) if dust gets in eyes.

#### Potential Health Effects - Skin

Not absorbed by skin but may cause dryness if prolonged exposure.

#### Potential Health Effects - Ingestion

Ingestion of small to moderate quantities is not considered harmful but may cause irritation of the mouth, throat and stomach.

#### Potential Health Effects - Inhalation

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

#### HMIS Ratings: Health 0 Fire 0 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
93763-70-3	Expanded Amorphous Alumina Silicate	> 99%
14808-60-7	Quartz (Crystalline Silica)	< 1%

#### Component Information/Information on Non-Hazardous Components

This product may contain crystalline silica (quartz) at below detectable levels (<0.1%);

Quartz CAS No. 14808-60-7; TLV 0.1 mg/m<sup>3</sup> (respirable)  
NIOSH 0.05 mg/m<sup>3</sup> (respirable)  
OSHA PEL 0.1 mg/m<sup>3</sup> (respirable)

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### SECTION IV FIRST AID MEASURES

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#### First Aid - Eyes

May cause irritation or inflammation. Flush eyes with copious quantities of water. If irritation persists, call a physician.

#### First Aid - Skin

Not absorbed by the skin. May cause dryness. Use moisture renewing lotions if dryness occurs.

#### First Aid - Ingestion

Non-toxic. However, if adverse symptoms appear, seek medical attention.

#### First Aid - Inhalation

Remove to fresh air. Blow nose to remove dust.

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

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**General Fire Hazards**

Not flammable. 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. Not flammable.

**Extinguishing Media**

Not applicable.

**Fire Fighting Equipment/Instructions**

Not applicable.

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

Vacuum dust with equipment fitted with HEPA filter. Use dust suppressant such as water if sweeping is necessary.

**Clean Up Procedures**

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**

Minimize dust generation. Avoid contact with the eyes. Avoid breathing dust. Repair or dispose of any broken bags.

**Storage Procedures**

Store in a dry place to maintain package integrity and product quality. Do not store near Hydrofluoric Acid (HF).

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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. Use adequate ventilation and appropriate exhaust to keep dust level below PEL.

**II. Component Exposure Limits**

None.

**Engineering Controls**

None required.

**Personal Protective Equipment – Eyes & Face**

Goggles to protect from dust.

**Personal Protective Equipment – Skin**

None required.

**Personal Protective Equipment – Respiratory**

None normally required. Wear a nuisance style dust mask if dusty conditions result.

**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 granules or powder	<b>Odor:</b>	None
<b>Physical State:</b>	Solid	<b>pH:</b>	6-9
<b>Vapor Pressure:</b>	Not applicable	<b>Vapor Density:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Melting Point:</b>	Not applicable
<b>Solubility (H<sub>2</sub>O):</b>	Not soluble	<b>Specific Gravity:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable		

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

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**Chemical Stability**

Product is stable.

**Chemical Stability: Conditions to Avoid**

None

**Incompatibility**

Reacts with Hydrofluoric Acid to form Silicon Tetrafluoride gas.

**Hazardous Decomposition**

None

**Hazardous Polymerization**

Will not occur

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

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**General Product Information**

Product is a naturally occurring volcanic glass consisting of fused Sodium-Potassium-Alumina Silicates. Tests on the product have not shown crystalline silica as being present above the detection limit (0.05%). Despite this, dust levels should be maintained below the OSHA Permissible Exposure Limit (PEL) and respirators used when airborne dust is present.

OSHA formerly regulated these types of minerals under its generic total particulate limit of 15 mg/m<sup>3</sup>. The ACGIH has a TLV-TWA of 10 mg/m<sup>3</sup> as total dust containing less than 1 percent quartz. The proposed PELs were 10 mg/m<sup>3</sup> (total particulate) and 5 mg/m<sup>3</sup> TWA (respirable particulate); however, the final rule retains the 15-mg/m<sup>3</sup> TWA PEL as total particulate containing less than 1 percent quartz. The respirable fraction limit of 5 mg/m<sup>3</sup> is also retained.

**Carcinogenicity**

None with the general product.

**Component Carcinogenicity**

Inhalation of the respirable dust portion may cause silicosis after extended, long-term exposure.

**Chronic Toxicity**

None.

**Mutagenicity**

None.

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

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

Generally considered inert. No negative ecological effects and the product may be used as a soil amendment.

**Component Analysis – Ecotoxicity & Aquatic Toxicity**

Nontoxic

**Environmental Fate**

Not water soluble and nonbiodegradable.

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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**

Not regulated by FDA.

**SERA**

Not listed.

**TSCA**

Not listed.

**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
Expanded Amorphous Alumina Silicate	93763-70-3	NO	No	No
Quartz (Crystalline Silica)	14808-60-7			

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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.