



M² 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

SECTION I CHEMICAL PRODUCT & SUPPLIER'S IDENTIFICATION

Product Name: TOTALSORB[®]
Chemical Name: Expanded Amorphous Alumina Silicate

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West Dundee, IL 60118

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

SECTION II HAZARD IDENTIFICATION

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

SECTION III COMPOSITION / INGREDIENT INFORMATION

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/m³ (respirable)
NIOSH 0.05 mg/m³ (respirable)
OSHA PEL 0.1 mg/m³ (respirable)

SECTION IV FIRST AID MEASURES

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.

SECTION V**FIRE FIGHTING MEASURES**

General Fire Hazards

Not flammable. 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. 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

SECTION VI**ACCIDENTAL RELEASE MEASURES**

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.

SECTION VII**HANDLING AND STORAGE**

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).

SECTION VIII**EXPOSURE CONTROLS / PERSONAL PROTECTION**

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.

SECTION IX**PHYSICAL & CHEMICAL PROPERTIES**

Appearance:	White granules or powder	Odor:	None
Physical State:	Solid	pH:	6-9
Vapor Pressure:	Not applicable	Vapor Density:	Not applicable
Boiling Point:	Not applicable	Melting Point:	Not applicable
Solubility (H₂O):	Not soluble	Specific Gravity:	Not applicable
Evaporation Rate:	Not applicable		

SECTION X**CHEMICAL STABILITY & REACTIVITY INFORMATION**

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

SECTION XI**TOXICOLOGICAL INFORMATION**

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/m³. The ACGIH has a TLV-TWA of 10 mg/m³ as total dust containing less than 1 percent quartz. The proposed PELs were 10 mg/m³ (total particulate) and 5 mg/m³ TWA (respirable particulate); however, the final rule retains the 15-mg/m³ TWA PEL as total particulate containing less than 1 percent quartz. The respirable fraction limit of 5 mg/m³ 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.

SECTION XII**ECOLOGICAL INFORMATION**

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.

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

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			

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.