

M² Polymer Technologies, Inc.
P.O. Box 365
West Dundee, IL 60118
P: 847/836-1393
F: 847/836-6483

MATERIAL 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.

PRODUCT NAME: Solid A Sorb (Diatomaceous Earth)

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SECTION I SUPPLIER'S INFORMATION

M² Polymer Technologies, Inc.
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Telephone Number for Information: 847/836-1393
Last Update : May 1, 2005

SECTION II Composition of Components

Components
(Specific Chemical Identity: Common Name(s))

Diatomaceous Earth, Calcined	CAS# 91053-39-3	100%
Crystalline Silica, Quartz	CAS# 14808-60-7	< 1%
Crystalline Silica, Cristobalite	CAS# 14464-46-1	< 1%

Diatomaceous Earth is a non-toxic, non-biodegradable material. Waste generated with this material would only be considered hazardous when mixed with a substance that would be considered hazardous.

All components are listed on US TSCA.

Other Limits

Recommended

Recommended Exposure --

Guideline for Respirable Particulate

Cristobalite	0.05 mg/m ³
Quartz	0.10 mg/m ³
(For Particles < 10 µm)	

SARA Section 313 Reportable Toxic Chemicals: NONE

NFPA/HMIS: Health - 0, Fire - 0, Reactivity - 0, Specific Hazard - None

Dot Class: Not Restricted.

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	- Solid	Specific gravity (H ₂ O = 1)	2.2
Vapor Pressure (mm Hg.)	- Not determined	Melting Point	Not applicable
% Volatile Wt.	- Not determined	Bulk Density	25 - 30 lbs/ft ³
Water Solubility	- Insoluble	pH	7 in 10% slurry
Appearance and Odor	- Buff to off-white powder and granules		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	- NONE		
Flammable Limits	- Not Available	LEL: Not determined	UEL: Not determined
Extinguishing Media	- All standard fire fighting media		
Unusual Fire and Explosion Hazards	- NONE		

NFPA Ratings: Health 0, Flammability 0, Reactivity 0
HMIS Ratings: Flammability 0, Reactivity 0, Health 0

SECTION V REACTIVITY DATA

Stability	- Stable
Incompatibility (Materials to Avoid)	- Hydrofluoric Acid (HF)
Hazardous Decomposition Products	- None
Hazardous Polymerization	- Will Not Occur

SECTION VI HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Yes	Skin?	No	Ingestion?	Yes
Health Hazards (Acute and Chronic)	-		Inhalation.		Contact with eyes or lungs may cause irritation.	
Acute Health Hazards	-		May cause eye and respiratory irritation.			

Chronic Health Hazards - This product contains very small quantities of crystalline silica, which is a known cause of silicosis, a progressive, sometimes fatal lung disease. In a 1997 monograph (Volume 68, "Silica, Some Silicates, Coal Dust and Para-aramid Fibrils"), the International Agency for Research on cancer (IARC) has classified "inhaled crystalline silica from occupational sources" in Group 1 as a substance "carcinogenic to humans". In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. A 1992 study by University of Washington researchers of certain diatomite workers reported an excess risk of nonmalignant respiratory disease (NMRD), Standardized Mortality Ratio (SMR) of 2.59 and an excess risk of lung cancer SMR=1.43. A 1996 follow up reported reduced risk with a SMR=2.01 for NMRD and a SMR=1.29 for lung cancer. As noted in the 1992 study and supported in the follow up, relatively intense exposures to crystalline silica that occurred before the 1950's were probably the most important contributors to the excesses in NMRD and lung cancer. A more detailed report discussing the IARC classification and the diatomite worker studies are available on request.

Skin contact:	Irritation is unlikely.
Eye contact:	May cause eye irritation.
Ingestion:	None known.

Signs and Symptoms of Exposure - Reddening, drying of affected area with possible itching, burning or other discomfort. Irritation of the upper respiratory tract.

Medical Conditions Generally Aggravated by Exposure - Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust.

Emergency and First Aid Procedures -
 Flush eyes with large quantity of water.
 Wash skin with soap and water.
 If inhaled, move to fresh air.
 Consult physician regarding any continued discomfort.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is Released or Spilled:	Collect material. Avoid generating airborne dust.
Waste Disposal Method:	Dispose of in accordance with Local, Federal, and State regulations. Non-hazardous waste material suitable for approved solid waste landfill.
Precautions to be taken in Handling and Storing:	Handle as a dust and as an eye irritant. Store in a cool, dry place. Do not ingest. Avoid breathing powder. Avoid skin and eye contact.
Other Precautions:	Dusty conditions may irritate eyes and respiratory system.
Shelf life:	60 months

SECTION VIII CONTROL MEASURES

Respiratory Protection (Specify Type) - Respirators fitted with filters certified to NIOSH (US) standard 42CFR84 under series N95 should be worn when airborne dust is present.

Ventilation	- Local Exhaust	Ensure removal of airborne particles.	Other	- Not required.
	- Mechanical (General)	Recommended.	Eye Protection	- Not normally required.
Protective Gloves	- Not normally required.			
Other Protective Clothing or Equipment	- None			
Work/Hygienic Practices	- Wash thoroughly after handling.			