



Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
Emergency Number: (800) 255-3924

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25298
Product Identity: Diatomaceous earth

Chemical Family: Not Applicable
Synonyms: Silica; Celite
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

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Revision Date:

Section 2 – Hazard Identification

Emergency Overview: Contains Silica which is classified as a carcinogen. May cause silicosis.
Appearance: White Solid **Odor:** Odorless
Target Organs: Lungs, eyes
Potential Health Effects/ Routes of Exposure:
Eyes: Slightly hazardous. May cause irritation.
Skin: Slightly hazardous. May cause irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: Causes irritation and silicosis.
Chronic Effect / Carcinogenicity: Inhalation hazard. Prolonged exposure is carcinogenic to humans.
Aggravated Medical Conditions Pre-existing upper respiratory and lung disease such as bronchitis, emphysema, and asthma.
These chemicals are not considered hazardous by OSHA.
See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Diatomaceous earth, CAS# 68855-54-9, >56% w/w

Also may contain:
Cristobalite, CAS# 14464-46-1, <40% w/w
Quartz, CAS#14808-60-7, <4%w/w

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Get medical assistance immediately.
Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.
Ingestion: Do NOT induce vomiting unless directed to do so. Get medical assistance immediately.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical attention.
Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable **Autoignition Temperature** Not available
Explosion Limits Upper No data available **Lower** No data available
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: Strong oxidizers may cause fire or explosions.
Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.
Hazardous Combustion Products: No information Available
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.
Specific Hazards Arising from the Chemical: No information available
NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not inhale or ingest. Keep locked up.
Environmental Precautions Not available.
Methods for Containment and Clean Up Vacuum or sweep up material and place into a suitable disposable container. Clean up spills immediately, avoid generating dust. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.
Storage: Keep container tightly closed in a cool, dry, well-ventilated area. Do not store above 24 C.

Section 8 – Exposure Controls, Personal Protection

Diatomaceous earth, CAS#68855-54-9, ACGIH TLV: NA, OSHA PEL: NA
Cristobalite, CAS# 14464-46-1, ACGIH TLV: 0.05mg/m³, OSHA PEL: 0.05mg/m³
Quartz, CAS#14808-60-7, ACGIH TLV: 0.05mg/m³, OSHA PEL: 0.1mg/m³
Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash r safety showers are available.
Personal Protection Equipment: Skin Protection: Chemical resistant gloves.
Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate unless airborne concentration exceeds exposure limits.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: White Solid	
Odor: Odorless	% Volatility: Not Available
Boiling Point: Not Available	Specific Gravity: 2.3
Melting Point: Not Available	Vapor Pressure: No Information Available
Vapor Density: No Information Available	Flash Point: Not Applicable
Evaporation Rate: No Information Available	Coefficient of water/oil distribution: Not Available
pH: Not available	Odor Threshold: Not Available
Flammability: No Information Available	Decomposition Temperature: Not Available
Solubility: Insoluble in water	Partition Coefficient n-octanol/water: Not Available
Relative Density: No Information Available	Molecular Weight: Not Available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatible Materials: Strong oxidizers.
Conditions to Avoid: Incompatible materials, dust generation, excess heat.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide
Hazardous Polymerization: Has not been reported.
Hazardous Reactions: No information available.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: No information available LC50 inhalation-rat: Not Available

Irritation: Irritating to the respiratory tract.

Toxicologically Synergistic: No information available

Chronic Exposure

Carcinogenicity Cristobalite – Listed as a carcinogen (IARC, NTP, OSHA, NIOSH)

Quartz –Listed as a carcinogen (IARC, NTP, OSHA, NIOSH)

Sensitization No information available.

Mutagenic Effects No information available.

Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects Crystalline silica may be tumorigenic.

Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: Not Available.

Persistence and Degradability: No Information Available

Mobility: No Information Available

Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Dilute with water and flush to sewer.

All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.

Canada DSL: These chemicals are listed on the Canada DSL list.

TSCA: These chemicals are listed on the TSCA inventory.

SARA Title III Section 313: No information available

RCRA Status: Not Applicable

CERCLA Reportable Quantity: Not Applicable

WHMIS: D2A: Very Toxic

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.