

IDENTITY: Diatomaceous Earth

Section I – Manufacturer Information

Mallinckrodt Baker, Inc.
222 Rod School Lane
Phillipsburg, NJ 08865

Telephone Number for Information:
(800) 582-2537

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EMERGENCY NUMBER: (908) 859-2151

Section II – Hazard Ingredients/Identity Information

Kieselguhr, Soda Ash Flux-calcined 100%

This product may contain up to 75% crystalline silica:

Cristobalite	<70%
Quartz	<5%

Health Rating: 4 – Extreme (Cancer Causing)

Contact Rating: 1 – Slight

Storage Color Code: Blue (Health)

Section III – Physical/Chemical Characteristics

Boiling Point: No information found

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Specific Gravity: 2.30

Melting Point: No information found

Evaporation Rate: No information found

Solubility in Water: Slight (0.1-1%)

Appearance and Odor: White powder/odorless

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used):

LEL:

Flammable Limits:

UEL:

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Not considered to be an explosion hazard.

Section V – Reactivity Data

Stable or Unstable? Stable under ordinary conditions of use and storage.

Conditions to Avoid: Moisture, extreme heat and incompatibles.

Incompatibility (Materials to Avoid): Reacts with hydrogen fluoride, fluorine, oxygen difluoride, chlorine trifluoride, strong acids, strong bases and oxidizers.

Hazardous Decomposition or Byproducts: No information found

Hazardous Polymerization May Occur or Will Not Occur? Will Not Occur

Conditions to Avoid:

Section VI – Health Hazard Data

Routes of Entry

Inhalation: Causes dryness and irritation to the respiratory tract. Symptoms may include coughing, sore throat, breathing difficulty (dyspnea), and wheezing. Excessive inhalation may cause decreased pulmonary function, lung damage and silicosis. Acute silicosis is manifested by dyspnea, fever, cough and weight loss. Severe respiratory symptoms may lead to death.

Skin: Causes irritation with dryness and abrasion.

Ingestion: No adverse effects expected.

Eye: Causes irritation, redness and pain.

Carcinogenicity:

NTP: Cristobalite, quartz and tridymite are listed as human carcinogen.

IARC Monographs:

OSHA Regulated:

NIOSH considers cristobalite, tridymite, quartz and tripoli to be potential occupational carcinogens.

Toxicological Data:

No LD50/LC50 information found relating to normal routes of occupational exposure.

Silica, Amorphous:

-diatomaceous earth; investigated as a tumorigen.

Silica, Crystalline:

-tripoli: investigated as a tumorigen.

-tridymite: investigated as a tumorigen and mutagen.

-quartz: investigated as a tumorigen and mutagen.

-cristobalite: investigated as a tumorigen.

-fused: investigated as a tumorigen.

Health Hazards: Harmful if inhaled. Causes irritation to skin, eyes and respiratory tract. May affect lungs. Cancer hazard. Contains crystalline silica, which can cause cancer. Risk of cancer depends on duration and level of exposure

Signs and Symptoms of Exposure: Prolonged inhalation exposure may produce silicosis. Chronic symptoms include cough, dyspnea, wheezing, increased susceptibility to tuberculosis, decreased chest expansion, and repeated nonspecific chest illnesses. Progressive respiratory and cardiopulmonary impairment may be fatal. Chronic inhalation of crystalline silica is a lung cancer hazard.

Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing respiratory or cardiopulmonary problems may be more susceptible to the effects of this substance.

Emergency and First Aid Procedure:

Inhalation – Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion – Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin – Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes – Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Ventilate area of leak or spill. Keep unnecessary and unprotected people away from the area of spill. Wear appropriate personal protective equipment as specified in Section VIII. Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Waste Disposal Method: Dispose of by means as to comply with all local, state and federal regulations or contact an approved and licensed disposal agency.

Precautions to be Taken in Handling and Storing: Keep in tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. When pouring into a container of flammable liquid, ground both containers electrically to prevent a static electric spark. Containers of this material may be hazardous when empty since they retain product residues (dusts, solids); observe all warnings and precautions listed for the product.

Other Precautions:

Ecological Information

Environment Fate: When released into the soil, this material is not expected to biodegrade. When released into water, this material is not expected to biodegrade.

Environmental Toxicity: No information found

Section VIII – Control Measures

Respiratory Protection: Dust mask

Ventilation

Local Exhaust: Preferred

Mechanical:

Special:

Other:

Protective Gloves: Rubber

Eye Protection: Use chemical safety goggles and/or full-face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facility.

Other Protective Clothing or Equipment: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Work/Hygiene Practices:

Section IX – Additional Information

The information provided in this Material Safety Data Sheet represents data from the manufacturer and/or vendor and is accurate to the best of our knowledge. By providing this information, Delta Education LLC makes no guarantee or warranty, expressed or implied, concerning the safe use, storage, handling, precautions, and/or disposal of the products covered or the accuracy of the information contained in this fact sheet. It is the responsibility of the user to comply with local, state, and federal laws and regulations concerning the safe use, storage, handling, precautions, and/or disposal of products covered in this fact sheet.