

MATERIAL SAFETY DATA SHEET

DIATOMACEOUS EARTH
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00
Replaces: None
Printed: 01/06/00

1. PRODUCT DESCRIPTION

Product Name: Diatomaceous Earth
Product Code(s): 85-7570, 67-1892A
Size: 500 g, 10 lb.
Chemical Name: See Section 2
CAS Number: 68855-54-9
Formula: Predominantly SiO₂
Synonyms: Diatomite, Kieselguhr
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Diatomaceous Earth, Flux-calcined
(CAS#68855-54-9) 100%
TLV and PEL units: ACGIH-TLV: 10 mg/m³ total nuisance dust
OSHA-PEL: 0.05 mg/m³ respirable

3. HAZARD IDENTIFICATION

Emergency Overview: CAUTION! Harmful dust
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): Not flammable
NFPA Rating: Health: 0
Fire: 0

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Reactivity: 0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: No information available

Autoignition Temperature: No information available

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH-approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: No known hazard

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

DO NOT BREATHE DUST. Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store in a dry place. Avoid breathing dust. Wash thoroughly after handling.

Other Precautions: Use with adequate ventilation. Remove and wash contaminated clothing.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):

None needed under normal conditions of use with adequate ventilation. NIOSH-approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust: Recommended

Mechanical(General): Recommended

Special: No

Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash-proof chemical safety goggles should be worn at all times. Other

Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: No information available

Melting Point: Non-volatile solid

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Vapor Density(Air=1): Not applicable

Specific Gravity(H2O=1): 2.33

Percent Volatile by Volume: Not applicable

Evaporation Rate(H2O=1): Not applicable

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Solubility in Water: Slight
Appearance and Odor: Dry, white powder; no odor

10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: None known
Incompatibility (Materials to Avoid): Hydrofluoric Acid
Hazardous Decomposition Products: None known
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: None cited
Effects of Overexposure: Inhalation of silica dust over long periods may be harmful; i.e., cause pneumoconiosis. May cause upper respiratory irritation or soreness in throat and nose. In extreme heat exposures some congestion may occur.
Acute: See section 3
Chronic: Carcinogenic effects data cited
Conditions Aggravated by Overexposure: No information available
Target Organs: No information available
Primary Route(s) of Entry: Eyes

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

non-regulated

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name List	Chemical Category		
Diatomaceous Earth	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a

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compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Services Abstract Number
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act