Diatomaceous Earth



Section 1

Product Description

Product Name: Diatomaceous Earth

Recommended Use: Science education applications

Diatomite, Kieselguhr Synonyms:

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING





Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 2A, Carcinogenicity Category 2, Specific Target Organ Systemic Toxicity (STOT) -Repeated Exposure Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Other Safety Precautions: Do not breathe dust/fume/gas/mist/vapors/spray.

> Wash thoroughly after handling. Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

If eve irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Section 3

Composition / Information on Ingredients

CAS# **Chemical Name** <u>%</u>

Diatomaceous Earth, Flux-calcined, 100%. This product is primarily crystalline silica in the form of: Cristobalite (CAS# 1464-46-1) up to 70%Quartz (CAS# 14808-60-7) up to 5%.

68855-54-9

100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: After contact with skin, wash immediately with plenty of water.

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Ingestion: If swallowed, rinse mouth with water (only if the person is conscious).

Section 5

Firefiahtina Procedures

Extinguishing Media:

Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection:

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

breathing apparatus.

Fire and/or Explosion Hazards:

Hazardous Combustion Products: None Known

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Evacuate the area promptly. Avoid the generation of dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Section 7

Handling and Storage

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handling:

Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Do not breathe

dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous;

use caution.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a Storage:

cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8

Protection Information

	<u>ACGIH</u>		OSHA PEL	
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	(STEL)
Diatomaceous earth	N/A	N/A	80mg/m3 /%SiO2	N/A
Silicon Dioxide			0.05 mg/m3	
Quartz			0.025 mg/m3	

Control Parameters

Engineering Measures: Local exhaust ventilation, process enclosures, or other engineering controls are

necessary when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required. Wear a NIOSH approved respirator if levels above

the exposure limits are possible.

NIOSH approved air purifying respirator with dust/mist filter. Respirator Type(s):

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective Skin Protection:

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

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Section 9 Physical Data

Formula: N/A Vapor Pressure: N/A

Molecular Weight: N/A Evaporation Rate (BuAc=1): N/A Appearance: Solid Vapor Density (Air=1): N/A Odor: No data available Specific Gravity: 2.33

Odor Threshold: No data available Solubility in Water: Practically Insoluble

pH: No data available

Log Pow (calculated): No data available Autoignition Temperature: No data available Melting Point: No data available Boiling Point: No data available **Decomposition Temperature:** No data available

Flash Point: No data available Viscosity: No data available Flammable Limits in Air: N/A N/A Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions. **Conditions to Avoid:**

None known. **Incompatible Materials:** Strong acids, Hydrogen fluoride

Hazardous Decomposition Products: None Known **Hazardous Polymerization:** Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, contact with Eyes.

Symptoms (Acute): Respiratory disorders **Delayed Effects:** No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50 Inhalation LC50** No data available 68855-54-9 Not determined Not determined Not determined

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA 68855-54-9 No data available Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect. Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

See Section 2 Acute:

Chronic: Listed by NTP, IARC as causing cancer.

Section 12 **Ecological Data**

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

N/A 68855-54-9

Disposal Information Section 13

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

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Section 14

Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for air transport by IATA. N/A

Regulatory Information Section 15

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)**

Number TQ

68855-54-9 No data available No No No No No

California Prop 65: WARNING: This product contains a chemical known to the state of California

to cause cancer.

Section 16 Additional Information

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The information provided in this (Material) Safety Data Sheet represents a 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.

Glossary

ACGIH American Conference of Governmental NTP National Toxicology Program

Industrial Hygienists Occupational Safety and Health Administration **OSHA**

CAS Chemical Abstract Service Number PEL Permissible Exposure Limit

CERCLA Comprehensive Environmental Response, Parts per million ppm

Compensation, and Liability Act **RCRA** Resource Conservation and Recovery Act

U.S. Department of Transportation Superfund Amendments and Reauthorization Act DOT SARA **IARC** International Agency for Research on Cancer TLV Threshold Limit Value

Not Available **TSCA** Toxic Substances Control Act N/A

IDLH Immediately dangerous to life and health

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