

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name

Diatomaceous earth, SiO2 approx. 95%

Product Number

Sigma Chemical

Brand

Company Street Address

Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country

SAINT LOUIS, MO 63103 US

Technical Phone: 314 771 5765 800 325 5052

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Emergency Phone:

414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name CELITE

91053-39-3

SARA 313

Formula

C72H110N20O15

Synonyms Celpure

Section 3 - Hazards Identification

Emergency Overview

Harmful.

Irritating to eyes and respiratory system. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Target organ(s): Lungs.

HMIS Rating

Health: 2*

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 2

Flammability: 0

Reactivity: 0

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp:

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Government approved respirator.

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance Physical State

Solid

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Molecular Weight: 1,495 AMU N/A BP/BP Range N/A MP/MP Range N/A Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A **Water Content** N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A Flammability N/A Autoignition Temp N/A Solubility N/A N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable

Stable

Materials to Avoid

Strong acids, Hydrogen fluoride,

Hazardous Decomposition Products

Hazardous Decomposition Products

Nature of decomposition products not known.

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

Causes eve irritation.

Inhalation

Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

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Ingestion

May be harmful if swallowed.

Target Organ(s) or System(s)

Lungs.

Signs and Symptoms of Exposure

Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Crystalline silica is classified as group 2A "probably carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the NTP. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn

Indication of Danger

Harmful.

Risk Statements

R: 36/37 48/20

Irritating to eyes and respiratory system. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Safety Statements S: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

Irritating to eyes and respiratory system. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. **US Statements**

Target organ(s): Lungs.

United States Regulatory Information

SARA Listed: No

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Section 16 - Other Information

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