

# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name** Flux-Calcined Diatomaceous Earth

### Other means of identification

**Synonyms** Dicalite (All Flux-calcinedProducts)  
Dicalite341,SPEEDPLUS,375,SPEEDEX,2500,SWIMPOOL,4200,  
4500,4500C,5000,6000,7000,WB-6,WB-6A).

### Recommended use of the chemical and restrictions on use

**Recommended Use** Processing aid/Filter Aid/ Industrial Filler

### Supplier's details

#### **Manufacturer Address**

DICALITE MINERALS CORP  
1 Bala Ave, Suite 310  
Bala Cynwyd, PA 19004  
TEL: (610)660-8840  
(530)-335-5451

### Emergency telephone number

**Company Emergency Phone Number** (610)660-8840, (530)-335-5451

## 2. HAZARDS IDENTIFICATION

### Classification

This product may contain crystalline silica, which is considered hazardous by inhalation according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Carcinogenicity	Category 1A
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

### GHS Label elements, including precautionary statements

### Emergency Overview

**Signal Word**

**Danger**

**Hazard Statements**

- May cause cancer through prolonged or repeated exposure
- May cause damage to organs through prolonged or repeated exposure



**Appearance** White to off-white

**Physical State** Powder.

**Odor** Odorless

**Precautionary Statements**

**Prevention**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray.

**General Advice**

- If exposed or concerned: Get medical attention/advice

**Storage**

- Store locked up, keep dry and away from odors.

**Disposal**

- Dispose of contents/container according to federal, state, and local regulations.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms**

Dicalite (AllFlux-calcinedProducts)  
Dicalite341, SPEEDPLUS, 375, SPEEDEX, 2500, SWIMPOOL, 4  
200, 4500, 4500C, 5000, 6000, 7000, WB-6, WB-6A).

Chemical Name	CAS-No	Weight %
Flux -Calcined Diatomaceous Earth	68855-54-9	100
Silica, cristobalite	14464-46-1	Up to 70
Quartz	14808-60-7	Up to 5

**4. FIRST AID MEASURES**

**Description of necessary first-aid measures**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Do not rub affected area. If irritation persists, call a physician.
<b>Skin Contact</b>	Use moisturizing lotions if dryness occurs.
<b>Inhalation</b>	Move to fresh air. Drink water and blow nose to remove dust.
<b>Ingestion</b>	Drink plenty of water.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Not Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Product is an inorganic mineral and uncontaminated Not flammable as product only is not flammable.**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

Not applicable.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. Avoid contact with the skin and the eyes.

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so, Avoid dust formation.

**Methods for Cleaning Up** (Recommended) Wet dust with water before sweeping or use a vacuum to collect dust.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Do not breathe vapors/dust. Minimize dust generation and accumulation. Avoid contact with skin and eyes.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep dry and away from odors.

**Incompatible Products** Hydrofluoric acid.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, cristobalite 14464-46-1	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.05 mg/m <sup>3</sup> respirable dust : (1/2)(30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (1/2)(250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (1/2)(10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 25 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	30/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, Total Dust; 250/(%SiO <sub>2</sub> +5) mppcf TWA, respirable fraction; 10/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA, respirable TWA: 0.1 mg/m <sup>3</sup> (vacated)	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Protective gloves.  
**Respiratory Protection** Respirator must be worn if exposed to dust.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Powder	<b>Appearance</b>	White to off-white
<b>Odor</b>	Odorless	<b>Odor Threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	8 - 11	(10 % solution)
<b>Melting Point/Range</b>	> 1300 °C	ASTM or equivalent
<b>Boiling Point/Boiling Range</b>	Not applicable	Not applicable
<b>Flash Point</b>	Not flammable.	Not applicable
<b>Evaporation rate</b>	Not applicable	Not applicable
<b>Flammability (solid, gas)</b>	Not flammable.	Not applicable
<b>Flammability Limits in Air</b>		

<b>upper flammability limit</b>	Not applicable	
<b>lower flammability limit</b>	Not applicable	
<b>Vapor Pressure</b>	Not applicable	Not applicable
<b>Vapor Density</b>	Not applicable	Not applicable
<b>Specific Gravity</b>	2.3	Water = 1
<b>Water Solubility</b>	Negligible	Not applicable
<b>Solubility in other solvents</b>	Negligible.	Not applicable
<b>Partition coefficient: n-octanol/water</b>	Not applicable	Not applicable
<b>Autoignition Temperature</b>	Not applicable	Not applicable
<b>Decomposition Temperature</b>	Not applicable	Not applicable
<b>Viscosity</b>	Not applicable	Not applicable
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	Not applicable	
<b>Oxidizing Properties</b>	Not applicable	
<b><u>Other information</u></b>		
<b>VOC Content (%)</b>	Not applicable	

## 10. STABILITY AND REACTIVITY

### **Reactivity**

Not reactive under normal use.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

None under normal use.

### **Conditions to avoid**

None under normal use.

### **Incompatible materials**

Hydrofluoric acid.

### **Hazardous decomposition products**

Silicon Dioxides

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

### Product Information

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Dust contact with the eyes can lead to mechanical irritation.
<b>Skin Contact</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Ingestion</b>	May cause irritation

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quartz	500 mg/kg ( Rat )	-	-

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1).

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica, amorphous, diatomaceous earth		Group 3		
Silica, cristobalite	A2	Group 1		X
Quartz	A2	Group 1	Known	X

#### **ACGIH: (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

#### **IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

#### **NTP: (National Toxicity Program)**

Known - Known Carcinogen

#### **OSHA: (Occupational Safety & Health Administration)**

X - Present

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Chronic Toxicity</b>	Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Inhalation overexposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease. Inhalation exposure to respirable levels of crystalline silica may cause respiratory impairment and lung damage.

**Aspiration Hazard** No information available.

### Numerical measures of toxicity - Product

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** 10000 mg/kg; Acute toxicity estimate

## **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

The material is generally considered non-hazardous to the environment as a naturally mined and processed inorganic mineral.

**Persistence and Degradability** Will not biodegrade.

**Bioaccumulation** No information available.

### Other Adverse Effects

None known under normal use.

### 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
<b>Contaminated Packaging</b>	Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

<b>DOT Proper Shipping Name</b>	Earth, Diatomaceous, crude or ground.
<b>DOT</b>	Not regulated, Earth Diatomaceous Earth, crude or ground.
<b>DOT Hazard Classification</b>	Not Classified
<b>UN, NA Number</b>	Not applicable

### 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** Complies

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

#### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### U.S. State Regulations

##### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Quartz	14808-60-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name: Quartz, CAS 14808-60-7  
New Jersey, Massachusetts, Pennsylvania, Rhode Island.

**U.S. EPA Label Information**

**EPA Pesticide Registration** Not applicable  
**Number**

16. OTHER INFORMATION							
<b><u>NFPA</u></b>	<b>Health Hazard</b>	1	<b>Flammability</b>	0	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b>	-
<b><u>HMI</u></b>	<b>Health Hazard</b>	1*	<b>Flammability</b>	0	<b>Physical Hazard</b>	0	<b>Personal Protection</b>
<b><u>S</u></b>							X

*\*Indicates a chronic health hazard.*

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**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**