

# SAFETY DATA SHEET

Issuing Date 24-Mar-2014

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Revision Number 2

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

### GHS product identifier

**Product Name** DICALITE CALCINED DE PRODUCTS

### Other means of identification

**Synonyms** Dicalite (All Calcined Products) PS, Dicalite 215, Superaid, UF,SA-UF, Speedflow, 231, Calcined Diatomaceous Earth

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

**Recommended Use** Filter Aid/Filler

### Supplier's details

#### **Manufacturer Address**

Dicalite Management Group, Inc.  
1 Belmont Avenue, Suite 500  
Bala Cynwyd, PA 19004  
Phone: 866-728-3303

### Emergency telephone number

866-728-3303

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous 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 if inhaled.
- Causes damage to lungs through prolonged or repeated exposure if inhaled



**Appearance** Pink, to Orange                      **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.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

0% of the mixture consists of ingredient(s) of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms**

Dicalite (All Calcined Products) PS, Dicalite 215, Superaid, UF,SA-UF, Speedflow, 231, Calcined Diatomaceous Earth

Chemical Name	CAS-No	Weight %
Calcined Diatomaceous Earth	91053-39-3	Up to 95%
Quartz	14808-60-7	up to 5%
Silica, Cristobalite	14464-46-1	Up to 20%

**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**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media** None**Specific Hazards Arising from the Chemical**

None known

**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** Use personal protective equipment. 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** Clean up material with vacuum equipped with HEPA filter. Use water as dust suppressant if necessary. Avoid dust formation.**7. HANDLING AND STORAGE****Precautions for safe handling****Handling** Use only in area provided with appropriate exhaust ventilation. Do not breathe dust. Do not use compressed air for clean-up. Wear personal protective equipment. Avoid dust formation.**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed in a dry and well-ventilated place.

**Incompatible Products** Hydroflouric 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	TWA: 0.05 mg/m <sup>3</sup> respirable dust	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	TWA: 0.05mg/m <sup>3</sup> 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

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). OSHA New Quartz/Cristobalite PEL April 2016.

### 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** Use NIOSH approved respirators to protect against silicosis producing dusts. For dust concentrations: <10x PEL, use an N95 quarter or half mask respirator; <50X PEL, use a full face respirator equipped with N95 filters; <200X PEL, use a powered air purifying respirator (positive pressure) with N95 filters; for dust concentrations >200X the PEL use a type C, supplied air respirator (continuous flow, positive pressure), with a full facepiece.

**Hygiene Measures** Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace.

## 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>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	5-10	10% Solution
<b>Melting Point/Range</b>	>1300 °C / >2372 °F	ASTM or Equivalent
<b>Boiling Point/Boiling Range</b>	Not applicable	N/A
<b>Flash Point</b>	Not flammable.	N/A
<b>Evaporation rate</b>	Not Applicable	N/A
<b>Flammability (solid, gas)</b>	Not Applicable	N/A
<b>Flammability Limits in Air</b>		

upper flammability limit	Not applicable	
lower flammability limit	Not applicable	
Vapor Pressure	Not applicable	N/A
Vapor Density	No data available	N/A
Specific Gravity	2.3 (water = 1)	ASTM or Equivalent
Water Solubility	Not applicable	N/A
Solubility in other solvents	Not applicable	N/A
Partition coefficient: n-octanol/water	Not applicable	N/A
Autoignition Temperature	Not applicable	N/A
Decomposition Temperature	No data available	N/A
Viscosity	Not applicable	N/A
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	Not applicable	
<b>Oxidizing Properties</b>	Not applicable	

**Other information**

VOC Content (%) Negligible as produced.

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

None under normal processing

**Incompatible materials**

Hydrofluoric Acid

**Hazardous decomposition products**

Silica oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information****Inhalation**

May cause irritation of respiratory tract. Inhalation overexposure to respirable 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.

**Eye Contact** Dust contact with the eyes can lead to mechanical irritation.  
**Skin Contact** Prolonged or repeated contact may dry skin and cause irritation.  
**Ingestion** May cause irritation

**Component Information**

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**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
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  
**NTP: (National Toxicity Program)**  
 Known - Known Carcinogen  
**OSHA: (Occupational Safety & Health Administration)**  
 X - Present

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** Causes damage to lungs through prolonged or repeated exposure if inhaled  
**Chronic Toxicity** Inhalation exposure to respirable levels of crystalline silica may cause respiratory impairment and lung damage.  
**Target Organ Effects** Lungs.  
**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product**

**Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity.  
*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 occurring inorganic mineral.

**Persistence and Degradability** Product is not biodegradable.

**Bioaccumulation** Not likely to bioaccumulate.

**Other Adverse Effects**  
 None known

**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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. TRANSPORT INFORMATION

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

#### 15. REGULATORY INFORMATION

##### International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

##### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Silica, cristobalite	X	X	X		
Quartz	X	X	X	-	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 1*	Flammability 0	Physical Hazard 0	Personal Protection X

*\*Indicates a chronic health hazard.*

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**Revision Note** Update contact information

**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**