

SAFETY DATA SHEET

Issuing Date 24-Mar-2014

Revision Date 7-April-2016

Revision Number 1

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 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 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

- Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Do not rub affected area. If irritation persists, call a physician.
- Skin Contact** Use moisturizing lotions if dryness occurs.
- Inhalation** Move to fresh air. Drink water and blow nose to remove dust.
- Ingestion** 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 ³ respirable fraction	TWA: 0.05 mg/m ³ respirable dust	IDLH: 25 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	TWA: 0.05mg/m ³ TWA: 0.1 mg/m ³ (vacated)	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ 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

Physical State	Powder	Appearance	White to off-white
Odor	Odorless	Odor Threshold	No information available

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

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
Flammable Properties	Not flammable	
Explosive Properties	Not applicable	
Oxidizing Properties	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

Waste Disposal Methods 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.

Contaminated Packaging Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	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

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	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

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

*Indicates a chronic health hazard.

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Issuing Date 24-Mar-2014
Revision Date 24-Mar-2014
Revision Note Initial Release.

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