

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 NATURAL DIATOMACEOUS EARTH (DE)

Other means of identification

Synonyms Dicalite (All Natural DE Products) Dicalite, Natural Diatomaceous Earth
104,183,BP-3,BP-5,CA-3,CA-5,D4A, D4C,D4R,D4AFA,677,677S,SA3

Recommended use of the chemical and restrictions on use

Recommended Use Natural 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** Off-White to Tan**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 (All Natural DE Products) Dicalite, Natural Diatomaceous Earth 104,183,BP-3,BP-5,CA-3,CA-5,D4A,D4C,D4R,D4AFA,677,677S,SA3

Chemical Name	CAS-No	Weight %
Natural Diatomaceous Earth	61790-53-2	Up to 100%
Quartz	14808-60-7	< 2%

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

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

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

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 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 (Recommended) 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. Wear personal protective equipment. Avoid dust formation.

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
Diatomaceous earth 61790-53-2	-	(vacated) TWA: 6 mg/m ³ <1% Crystalline silica : (80)/(% SiO ₂) mg/m ³ TWA TWA: 20 mppcf	TWA: 5 mg/m ³ respirable dust TWA: 10 mg/m ³ total dust
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	TWA: 0.05mg/m ³ respirable dust	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 PEL (Quartz) 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 Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Powder	Appearance	Off-White to Tan
Odor	Odorless	Odor Threshold	None

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	5-10 (10% solution)	Not Applicable
Melting Point/Range	>1300 °C / >2372 °F	ASTM or equivalent
Boiling Point/Boiling Range	No data available	Not Applicable
Flash Point	Not flammable.	None
Evaporation rate	Not applicable	None
Flammability (solid, gas)	Not applicable	Not applicable
Flammability Limits in Air		
upper flammability limit	Not flammable	Not applicable
lower flammability limit	Not flammable	Not applicable

Vapor Pressure	Not applicable	
Vapor Density	Not applicable	
Specific Gravity	2.3 (water = 1)	ASTM or equivalent
Water Solubility	Negligible	ASTM or equivalent
Solubility in other solvents	Negligible	
Partition coefficient: n-octanol/water	Not applicable	
Autoignition Temperature	Not applicable	
Decomposition Temperature	Not known	
Viscosity	Not applicable (solid)	

Flammable Properties Not flammable

Explosive Properties Not applicable

Oxidizing Properties Not applicable

Other information

VOC Content (%) None

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 known.

Incompatible materials

Hydrogen fluoride.

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 Difficulty in breathing.

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
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.

Diatomaceous earth 61790-53-2				
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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
<u>DOT</u>	Not regulated
DOT Hazard Classification	Not Classified
<u>TDG</u>	Not regulated
UN, NA Number	Not Applicable
<u>MEX</u>	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 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
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 - Personal Protection X
<u>HMIS</u>	Health Hazard 1*	Flammability 0	Physical Hazard 0	

**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