

SAFETY DATA SHEET

Issuing Date 11-Mar-2014

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Revision Number 0

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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-calcined Products)
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 | <ul style="list-style-type: none"> • 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-calcined Products)
 Dicalite341, SPEEDPLUS, 375, SPEEDEX, 2500, SWIMPOOL, 4200, 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

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.

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 ³ respirable fraction | (vacated) TWA: 0.05 mg/m ³ respirable dust : (1/2)(30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (1/2)(250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (1/2)(10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | 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 | 30/(%SiO ₂ +2) mg/m ³ TWA, Total Dust; 250/(%SiO ₂ +5) mppcf TWA, respirable fraction; 10/(%SiO ₂ +2) mg/m ³ TWA, respirable TWA: 0.1 mg/m ³ (vacated) | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ 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**

| | | | |
|-----------------------|----------|-----------------------|--------------------|
| Physical State | Powder | Appearance | White to off-white |
| Odor | Odorless | Odor Threshold | Not applicable |

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

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

Inhalation May cause irritation of respiratory tract.
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

| 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 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

Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.
Chronic Toxicity 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

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.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name Earth, Diatomaceous, crude or ground.
DOT Not regulated, Earth Diatomaceous Earth, crude or ground.
DOT Hazard Classification Not Classified
UN, NA Number 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

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

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>HMI</u> <u>S</u> | Health Hazard | 1* | Flammability | 0 | Physical Hazard | 0 | Personal Protection X |

**Indicates a chronic health hazard.*

| | |
|----------------------|--|
| Prepared By | Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501 |
| Issuing Date | 11-Mar-2014 |
| Revision Date | 11-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