

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 | |

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 | |
| <u>Other information</u> | | |
| 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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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