

SAFETY DATA SHEET

Preparation Date: 4/18/2018

Revision Date: 4/18/2018

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: DI106
Product Name: DIATOMACEOUS EARTH

Other means of identification

Synonyms: No information available
CAS #: Mixture
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: <https://www.spectrumchemical.com>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Danger

Hazard statements

May cause cancer
Causes damage to organs through prolonged or repeated exposure

**Hazards not otherwise classified (HNOC)**

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response*IF exposed or concerned: Get medical advice/attention***Precautionary Statements - Storage**

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	100
Cristobalite (crystalline silica)	14464-46-1	35-50

4. FIRST AID MEASURES**First aid measures****General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact:

Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Product code: DI106

Product name: DIATOMACEOUS
EARTH

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Symptoms May cause eye/skin/respiratory tract irritation
Coughing and wheezing
Dyspnea (Difficulty breathing and shortness of breath)
Sore throat
Dry throat
May cause silicosis

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment 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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Hydrofluoric acid
Strong oxidizing agents
Fluoride
Fluorine
Oxygen difluoride
Chlorine trifluoride
Manganese trioxide
Alkaline Solutions
Acetylene
Ammonia

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	None	None	None	None
Cristobalite (crystalline silica)	14464-46-1	50 µg/m ³ TWA (1/2)(250)/(100)(%SiO ₂ + 5) mppcf TWA respirable fraction (1/2)(10)/(100)(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	0.05 mg/m ³ TWA	0.025 mg/m ³ TWA respirable particulate matter	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	None	None	None	None
Cristobalite (crystalline silica)	14464-46-1	0.025 mg/m ³ TWA respirable particulate	0.025 mg/m ³ TWA respirable	0.05 mg/m ³ TWA respirable Silica, crystalline	0.05 mg/m ³ TWA EV respirable dust

Australia and Mexico

Product code: DI106

Product name: DIATOMACEOUS EARTH

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Components	CAS-No.	Australia	Mexico
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	None	None
Cristobalite (crystalline silica)	14464-46-1	0.1 mg/m ³ TWA	0.05 mg/m ³ TWA

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields
- Skin and body protection:** Chemical resistant apron
Gloves
Long sleeved clothing
- Respiratory protection:** Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Appearance: Powder.	Color: Off-white.
Odor: Odorless.	Taste No information available.	Formula: No information available
Molecular/Formula weight: No information available	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): >1300 °C/2372 °F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 2.3	pH: No information available	Vapor pressure @ 20°C (kPa): No information available

Evaporation rate:
No information available

Vapor density:
No information available

VOC content (g/L):
No information available

Odor threshold (ppm):
No information available

**Partition coefficient
(n-octanol/water):**
No information available

Viscosity:
No information available

Miscibility:
No information available

Solubility:
Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity

Reactive with Hydrofluoric acid

Silica will dissolve in Hydrofluoric acid and produce the corrosive gas Silicon Tetrafluoride (SiF₄)

Chemical stability

Stability: Stable at normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Hydrofluoric acid
Strong oxidizing agents
Fluoride
Fluorine
Oxygen difluoride
Chlorine trifluoride
Manganese trioxide
Alkaline Solutions
Acetylene
Ammonia

Hazardous decomposition products: No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)

CAS-No. 68855-54-9

LD50/oral/rat = No information available

LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Cristobalite (crystalline silica)	
CAS-No.	14464-46-1

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation Irritating to respiratory system. Flux-calcined Diatomaceous earth contains crystalline silica. Acute silicosis (a form of pneumoconiosis) and lung damage from overwhelming exposure to silica dust can occur. Symptoms may include coughing and wheezing. May cause dyspnea (difficulty breathing or shortness of breath). May cause dry and sore throat.

Ingestion Expected low hazard. Health injuries are not known or expected under normal use.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Inhalation: Chronic exposure to crystalline silica via inhalation can also cause silicosis, the most important form of pneumoconiosis. In silicosis, fibrotic nodules form in the lung around silica deposits (a form of lung scarring). Symptoms include coughing, wheezing, shortness of breath/dyspnea, decrease chest expansion, a progressive decrease in lung function. Chronic inhalation of crystalline silica is also a lung cancer hazard. Risk of cancer depends upon duration and level of exposure. It also greatly increases the risk for other diseases such as tuberculosis, systemic lupus erythematosus, scleroderma, and Grave's disease. May also affect blood (changes in white blood cell count), the thymus, and spleen.

Aggravation of Pre-existing Conditions: Inhalation may increase the progression of tuberculosis; susceptibility is apparently not increased. Persons with impaired respiratory function/pre-existing upper respiratory and lung disease (bronchitis, asthma, emphysema) may be more susceptible to the effects of this substance. Smoking can increase the risk of lung injury.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: May cause cancer.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	Group 3 - Not Classifiable - Monograph 68 [1997] Amorphous silica	Not listed	Not listed	Not listed	Not listed	Not listed
Cristobalite (crystalline silica)	14464-46-1	Group 1 - Carcinogenic to Humans - Monograph 68 [1997] Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources	A2 Suspected Human Carcinogen	Known Human Carcinogen Silica, crystalline (respirable size)	Present	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.
Target Organs: Lungs. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.
Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
 Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
 Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	None	None	None	None
Cristobalite (crystalline silica)	14464-46-1	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class No information available
Packing group: No information available
Emergency Response Guide Number No information available
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available

Packing Group: No information available
Marine Pollutant Description: No information available

ADR

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant No information available

RID

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

ICAO

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)</i>	68855-54-9	PresentACTIV E	Present KE-21796	Present	Present (1)-548	Present	Present	Present 272-489-0
<i>Cristobalite (crystalline silica)</i>	14464-46-1	PresentACTIV E	Present KE-09017	Present	Present (1)-548	Present	Present	Present 238-455-4

U.S. Regulations

Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)

Pennsylvania RTK: Present

Cristobalite (crystalline silica)

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1657

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present (carcinogen)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

⚠️ WARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	Not Listed	Not Listed	Not Listed	Not Listed
Cristobalite (crystalline silica)	14464-46-1	carcinogen (listed as silica, crystalline (airborne particles of respirable size))	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)</i>	68855-54-9	None	None	None	None	None
<i>Cristobalite (crystalline silica)</i>	14464-46-1	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	Not Applicable	Not Applicable
Cristobalite (crystalline silica)	14464-46-1	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component

WHMIS 2015 Hazard Classification

Product code: DI106

Product name: DIATOMACEOUS EARTH

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Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)
68855-54-9 (100)

Cristobalite (crystalline silica)
14464-46-1 (35-50)

Carcinogenicity - Category 1A: H350 May cause cancer.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity - Category 1A: H350 May cause cancer.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

D2A Very toxic materials

Components

Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)
Cristobalite (crystalline silica)

WHMIS 1988
D2A

D2A In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	1 %
Cristobalite (crystalline silica)	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	Present	Not Listed
Cristobalite (crystalline silica)	14464-46-1	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	Not listed
Cristobalite (crystalline silica)	14464-46-1	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	Not listed
Cristobalite (crystalline silica)	14464-46-1	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9	
Cristobalite (crystalline silica)	14464-46-1	

EU - CLP (1272/2008)

R-phrase(s)

R37 - Irritating to respiratory system.
R48 - Danger of serious damage to health by prolonged exposure.
R49 - May cause cancer by inhalation.

S -phrase(s)

S22 - Do not breathe dust.

S36 - Wear suitable protective clothing.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Diatomaceous earth, flux-calcined (This product contains 35 to 50% crystalline silica in the form of Cristobalite)	68855-54-9		No information	
Cristobalite (crystalline silica)	14464-46-1		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC**Indication of danger:**

T - Toxic

Xi - Irritant.

T



Xi

**16. OTHER INFORMATION**

Preparation Date: 4/18/2018
Revision Date: 4/18/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet