



# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Date of issue: 01/09/2015

Version 1.0

## SECTION 1. Identification

### Product identifier

Product number CX0574  
Product name Celite® 545 Diatomaceous Earth

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for analysis

### Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,  
United States of America | General Inquiries: +1-978-715-4321 |  
Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)  
+1-703-527-3887 CHEMTREC (International)  
24 Hours/day; 7 Days/week

## SECTION 2. Hazards identification

### GHS Classification

Specific target organ systemic toxicity - repeated exposure, Category 2, Inhalation, Lungs, H373  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### GHS-Labeling

*Hazard pictograms*



*Signal Word*  
Warning

### *Hazard Statements*

H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

### *Precautionary Statements*

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P314 Get medical advice/ attention if you feel unwell.  
P501 Dispose of contents/ container to an approved waste disposal plant.

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

CX0574

Version 1.0

Product name

Celite® 545 Diatomaceous Earth

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## Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

### Hazardous ingredients

*Chemical Name (Concentration)*

CAS-No.

*Cristobalite (>= 30 % - < 50 % )*

14464-46-1

Exact percentages are being withheld as a trade secret.

*Kieselguhr (contains free crystalline silicic acid) (>= 30 % - < 50 % )*

68855-54-9

Exact percentages are being withheld as a trade secret.

*quartz (SiO<sub>2</sub>) (>= 1 % - < 5 % )*

14808-60-7

Exact percentages are being withheld as a trade secret.

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## SECTION 4. First aid measures

### Description of first-aid measures

*Inhalation*

After inhalation: fresh air. Call in physician.

*Skin contact*

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

*Eye contact*

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

*Ingestion*

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

Pneumokoniosis (silicosis)

### Indication of any immediate medical attention and special treatment needed

No information available.

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## SECTION 5. Fire-fighting measures

### Extinguishing media

*Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number CX0574  
Product name Celite® 545 Diatomaceous Earth

---

Version 1.0

### *Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### **Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapors.

### **Advice for firefighters**

#### *Special protective equipment for fire-fighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### *Further information*

Suppress (knock down) gases/vapors/mists with a water spray jet.

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## **SECTION 6. Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### **Environmental precautions**

No special precautionary measures necessary.

### **Methods and materials for containment and cleaning up**

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly.

Clean up affected area. Avoid generation of dusts.

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## **SECTION 7. Handling and storage**

### **Precautions for safe handling**

Work under hood. Do not inhale substance/mixture.

Observe label precautions.

### **Conditions for safe storage, including any incompatibilities**

Tightly closed. Dry.

Store at room temperature.

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SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number  
Product name

CX0574  
Celite® 545 Diatomaceous Earth

Version 1.0

**SECTION 8. Exposure controls/personal protection**

**Exposure limit(s)**

*Ingredients*

Basis	Value	Threshold limits	Remarks
<i>Cristobalite 14464-46-1</i>			
ACGIH	Time Weighted Average (TWA):	0.025 mg/m <sup>3</sup>	Form of exposure: Respirable fraction.
Z1A	Time Weighted Average (TWA):	0.05 mg/m <sup>3</sup>	Form of exposure: Respirable dust.
	Time Weighted Average (TWA):	0.15 mg/m <sup>3</sup>	The exposure limit is calculated from the equation, 15/(%SiO <sub>2</sub> +2), using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits. Form of exposure: Total dust.
	Time Weighted Average (TWA):	0.05 mg/m <sup>3</sup>	The exposure limit is calculated from the equation, 5/(%SiO <sub>2</sub> +2), using a value of 100% SiO <sub>2</sub> . Lower percentages of SiO <sub>2</sub> will yield higher exposure limits. Form of exposure: Respirable.
	Time Weighted Average (TWA):	1.2millions of particles per cubic foot of air	The exposure limit is calculated from the equation, 125/(%SiO <sub>2</sub> +5), using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits. Form of exposure: Respirable.
<i>Kieselguhr (contains free crystalline silicic acid) 68855-54-9</i>			
NIOSH/GUIDE	Recommended exposure limit (REL):	6 mg/m <sup>3</sup>	
	Time Weighted Average (TWA):	20millions of particles per cubic foot of air	
	Time Weighted Average (TWA):	0.8 mg/m <sup>3</sup>	The exposure limit is calculated from the equation, 80/(%SiO <sub>2</sub> ), using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits.

*quartz (SiO<sub>2</sub>) 14808-60-7*

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

CX0574

Version 1.0

Product name

Celite® 545 Diatomaceous Earth

ACGIH	Time Weighted Average (TWA):	0.025 mg/m <sup>3</sup>	Form of exposure: Respirable fraction.
NIOSH/GUIDE	Recommended exposure limit (REL):	0.05 mg/m <sup>3</sup>	Form of exposure: Respirable dust.
Z1A	Time Weighted Average (TWA):	0.1 mg/m <sup>3</sup>	Form of exposure: Respirable dust.
	Time Weighted Average (TWA):	0.1 mg/m <sup>3</sup>	The exposure limit is calculated from the equation, 10/(%SiO <sub>2</sub> +2), using a value of 100% SiO <sub>2</sub> . Lower percentages of SiO <sub>2</sub> will yield higher exposure limits. Form of exposure: Respirable.
	Time Weighted Average (TWA):	0.3 mg/m <sup>3</sup>	The exposure limit is calculated from the equation, 30/(%SiO <sub>2</sub> +2), using a value of 100% SiO <sub>2</sub> . Lower values of % SiO <sub>2</sub> will give higher exposure limits. Form of exposure: Total dust.
	Time Weighted Average (TWA):	2.4millions of particles per cubic foot of air	The exposure limit is calculated from the equation, 250/(%SiO <sub>2</sub> +5), using a value of 100% SiO <sub>2</sub> . Lower percentages of SiO <sub>2</sub> will yield higher exposure limits. Form of exposure: Respirable.

## Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

## Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

## Hygiene measures

Change contaminated clothing. Application of skin- protective barrier cream recommended.  
Wash hands after working with substance.

## Eye/face protection

Safety glasses

## Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## Other protective equipment:

protective clothing

## Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

required when dusts are generated.

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## SECTION 9. Physical and chemical properties

Physical state

powder

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

CX0574

Version 1.0

Product name

Celite® 545 Diatomaceous Earth

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Color	off-white
Odor	No strong odor known.
Odor Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	insoluble
Partition coefficient: n-octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

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## SECTION 10. Stability and reactivity

### Reactivity

See below

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number CX0574  
Product name Celite® 545 Diatomaceous Earth

Version 1.0

## Possibility of hazardous reactions

Dangerous reactions are not expected handling the product according to its intended use.

## Conditions to avoid

no information available

## Incompatible materials

no information available

## Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### Information on toxicological effects

#### *Likely route of exposure*

Inhalation, Eye contact, Skin contact, Ingestion

#### *Target Organs*

Eyes

Respiratory system

#### *Acute inhalation toxicity*

Symptoms: Chronic intoxication:, Pneumokoniosis (silicosis)

#### *Specific target organ systemic toxicity - single exposure*

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### *Specific target organ systemic toxicity - repeated exposure*

Target Organs: Inhalation, Lungs

Mixture may cause damage to organs through prolonged or repeated exposure.

#### *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

## Carcinogenicity

IARC	Group 1: Carcinogenic to humans
	quartz (SiO <sub>2</sub> ) 14808-60-7 Cristobalite 14464-46-1
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	Known carcinogen.
	quartz (SiO <sub>2</sub> ) 14808-60-7 Cristobalite 14464-46-1
ACGIH	A2: Suspected human carcinogen
	quartz (SiO <sub>2</sub> ) 14808-60-7 Cristobalite 14464-46-1

# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

CX0574

Version 1.0

Product name

Celite® 545 Diatomaceous Earth

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## Further information

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

After inhalation of dust:

Chronic intoxication:

Pneumokoniosis (silicosis)

Other information

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

## Ingredients

*Cristobalite*

No information available.

*Kieselguhr (contains free crystalline silicic acid)*

*Germ cell mutagenicity*

*Genotoxicity in vitro*

Ames test

Result: negative

(Lit.)

*quartz (SiO<sub>2</sub>)*

No information available.

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## SECTION 12. Ecological information

### Ecotoxicity

No information available.

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

## Ingredients

*Cristobalite*

No information available.

*Kieselguhr (contains free crystalline silicic acid)*

No information available.

*quartz (SiO<sub>2</sub>)*

No information available.

---



# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

CX0574

Version 1.0

Product name

Celite® 545 Diatomaceous Earth

---

## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## SECTION 14. Transport information

### Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

### Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15. Regulatory information

### United States of America

#### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### DEA List I

Not listed

#### DEA List II

Not listed

### US State Regulations

#### Massachusetts Right To Know

##### *Ingredients*

Cristobalite

Kieselguhr (contains free crystalline silicic acid)

quartz (SiO<sub>2</sub>)

#### Pennsylvania Right To Know

##### *Ingredients*

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# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number

CX0574

Version 1.0

Product name

Celite® 545 Diatomaceous Earth

---

Cristobalite  
Kieselguhr (contains free crystalline silicic acid)  
quartz (SiO<sub>2</sub>)

### New Jersey Right To Know

#### *Ingredients*

Cristobalite  
quartz (SiO<sub>2</sub>)

### California Prop 65 Components

WARNING: this product contains a chemical known in the State of California to cause cancer.

#### *Ingredients*

quartz (SiO<sub>2</sub>)  
Cristobalite

### Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

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## SECTION 16. Other information

### Training advice

Provide adequate information, instruction and training for operators.

### Labeling

#### *Hazard pictograms*



#### *Signal Word*

Warning

#### *Hazard Statements*

H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

#### *Precautionary Statements*

##### Response

P314 Get medical advice/ attention if you feel unwell.

### Full text of H-Statements referred to under sections 2 and 3.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

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---

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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