



## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Celite 535

SDS No. : 1480E-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

### 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

**HEALTH HAZARDS**

Germ cell mutagenicity: Category 2

Carcinogenicity: Category 1

Specific target organ toxicity – repeated exposure: Category 1 (respiratory system; lung; eye)

Specific target organ toxicity – repeated exposure: Category 2 (respiratory system; immune system; kidney)

Label elements



Signal word: Danger

**HAZARD STATEMENT**

Suspected of causing genetic defects

May cause cancer

Causes damage to organs through prolonged or repeated exposure (respiratory system; lung; eye)

May cause damage to organs through prolonged or repeated exposure (respiratory system; immune system; kidney)

**PRECAUTIONARY STATEMENT**

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Response

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Disposal

Dispose of contents/container in accordance with local/national regulation.



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### 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name:Diatomaceous earth

Content (%):100

CAS No.:68855-54-9

ECNO:272-489-0

Note : The figures shown above are not the specifications of the product.

Supplementary information concerning ingredients

Contained crystalline silica <54%

Cristobalite <50% (CAS No.14464-46-1)

Quartz <4.0% (CAS No.14808-60-7)

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### 4. First-aid measures

Descriptions of first-aid measures

General measures

Get medical attention/advice if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

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### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.



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## 6. Accidental release measures

### Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

### Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Avoid raising dust.

### Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

### Preventive measures for secondary accident

Collect spillage.

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## 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.

#### Any incompatibilities

See "10.Stability and Reactivity"

#### Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

### Storage

#### Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

#### Container and packaging materials for safe handling

Glass

Polyethylene

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## 8. Exposure controls/personal protection

### Control parameters

#### Adopted value

(Cristobalite)

ACGIH(2009) TWA: 0.025mg/m<sup>3</sup>(R) (Pulmonary fibrosis; lung cancer)

(Quartz)

ACGIH(2009) TWA: 0.025mg/m<sup>3</sup>(R) (Pulmonary fibrosis; lung cancer)

#### OSHA-PEL

(Cristobalite)

TWA: Use ? the value calculated from the count or mass formulae for quartz.

(Quartz)



TWA:  $(250/(\%SiO_2+5))\text{mppcf}$ ,  
 $(10\text{mg}/\text{m}^3/(\%SiO_2+2))\text{mg}/\text{m}^3$  (Respirable)  
 $(30\text{mg}/\text{m}^3/(\%SiO_2+2))\text{mg}/\text{m}^3$  (Total Dust)

**Exposure controls**

## Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

## Individual protection measures

## Respiratory protection

Wear respiratory protection.

## Hand protection

Wear protective gloves.

## Eye protection

Wear eye/face protection.

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**9. Physical and Chemical Properties**

## Information on basic physical and chemical properties

Physical state: Powder

Color: Off-white

Odor: None

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Insoluble

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 2.3

Relative vapor density (Air=1) data is not available.

No Particle characteristics data is not available.

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**10. Stability and Reactivity**

## Reactivity

Not available.

## Chemical stability

Stable under normal storage/handling conditions.

## Possibility of hazardous reactions

(Cristobalite)

Reacts with strong oxidants. This generates fire and explosion hazard. (ICSC 0809)

(Quartz)

Reacts violently with strong oxidants. This generates fire and explosion hazard. (ICSC 0808)

## Conditions to avoid

Contact with incompatible materials.

Contact with fire source.



Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Silicon compounds

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## 11. Toxicological Information

Information on toxicological effects

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation data is not available.

Allergenic and sensitizing effects data is not available.

Germ cell mutagenicity

[GHS Cat. Japan, base data]

(Cristobalite)

cat. 2; SIDS, 2013

(Quartz)

cat. 2; SIDS, 2013

Carcinogenicity

[GHS Cat. Japan, base data]

(Cristobalite)

cat.1A; IARC Gr. 1 (IARC 100C, 2012)

(Quartz)

cat.1A; IARC Gr. 1 (IARC 100C, 2012 et al.)

[Company proprietary data]

(Diatomaceous earth)

Category 1

(Cristobalite)

IARC-Gr.1 : Carcinogenic to humans

(Quartz)

IARC-Gr.1 : Carcinogenic to humans

(Cristobalite)

ACGIH-A2(2009) : Suspected Human Carcinogen

(Quartz)

ACGIH-A2(2009) : Suspected Human Carcinogen

Reproductive toxicity data is not available.

STOT

STOT-single exposure data is not available.

STOT-repeated exposure

[cat.1]

[GHS Cat. Japan, base data]

(Cristobalite)

respiratory system (ACGIH 7th, 2006)

(Quartz)

respiratory system; immune system; kidney (SIDS, 2013)

[Company proprietary data]

(Diatomaceous earth)

lung, eye

Aspiration hazard data is not available.

Information on other hazards

May cause lung disorders by massive inhalation of powdered substance.

-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax



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## 12. Ecological Information

### Ecotoxicity

#### Aquatic toxicity

Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data]

(Quartz)

Crustacea (Daphnia magna) LL50 > 10000mg/L (SIDS, 2013)

#### Water solubility

(Cristobalite)

none (ICSC, 1997)

(Quartz)

none (ICSC, 2010)

#### Persistence and degradability

Persistence and degradability data is not available.

#### Bioaccumulative potential

Bioaccumulative potential data is not available.

#### Mobility in soil

Mobility in soil data is not available.

#### Other adverse effects

Ozone depleting chemical data is not available.

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## 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

#### Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

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## 14. Transport Information

UN No. or ID No.: Not applicable

Not applicable to IMDG Code

Not applicable to IATA Dangerous Goods Regulations

#### Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

MARPOL Annex V – Prevention of pollution by garbage discharge

Carcinogenicity: cat.1, 1A, 1B

Cristobalite; Quartz; Diatomaceous earth

Specific target organ toxicity – repeated exposure: cat.1

Cristobalite; Diatomaceous earth

#### Maritime transport in bulk according to IMO instruments

Non Noxious Liquid ; Cat. OS

Cristobalite; Quartz; Diatomaceous earth

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## 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemicals listed in TSCA Inventory

Cristobalite; Quartz; Diatomaceous earth

#### Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local



regulations.

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## 16. Other information

### GHS classification and labelling

Muta. 2: H341 Suspected of causing genetic defects

Carc. 1: H350 May cause cancer

STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure

### Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (62nd Edition) 2021

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

Supplier's data/information

### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2019).