# SAFETY DATA SHEET



1. Identification

**Product identifier VOLCLAY® CP-200** 

Other means of identification

**CAS** number 1302-78-9

Recommended use Bentonite has a variety of uses. It can be used as a rheology modifier, binding agent, adsorbent,

hydraulic-barrier, and filler.

**Recommended restrictions** Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

CETCO, an MTI Company Company name

**Address** 2870 Forbs Avenue Hoffman Estates, IL 60192

**United States** 

General Information 800 527-9948 **Telephone** 

Website http://www.cetco.com/LT/ safetydata@mineralstech.com E-mail

1.866.519.4752 (US, CA, **Emergency phone number** 1 760 476 3962

MX)

**Americas** 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

> Specific target organ toxicity, repeated Category 1

exposure

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word

**Hazard statement** May cause cancer. Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

> and understood. Do not breathe dust. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective

gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention. Response

Store away from incompatible materials. Storage

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Material can be slippery when wet

Supplemental information 90% of the mixture consists of component(s) of unknown acute oral toxicity. 8% of the mixture

consists of component(s) of unknown acute dermal toxicity. 8% of the mixture consists of

component(s) of unknown acute hazards to the aquatic environment.

Material name: VOLCLAY® CP-200 4959 Version #: 24 Revision date: 25-October-2018 Issue date: 19-July-2018

## 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name                            | Common name and synonyms | CAS number | %  |
|--|--------------------------|------------|----|
| QUARTZ (SIO2)                            |                          | 14808-60-7 | 6  |
| CRISTOBALITE                             |                          | 14464-46-1 | 2  |
| Other components below reportable levels |                          |            | 92 |

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments** Occupational Exposure Limits for constituents are listed in Section 8.

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Prolonged exposure may cause chronic effects.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

**General information** IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Use any media suitable for the surrounding fires.

Not applicable, non-combustible.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters should wear full protective gear.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

This material will not burn. Material can be slippery when wet No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Wear a dust mask if dust is generated above exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

Material name: VOLCLAY® CP-200 SDS US

# 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Components                                       | Туре   | Value       | Form                    |
|--|--|-------------|-------------------------|
| CRISTOBALITE (CAS<br>14464-46-1)                 | PEL  | 0.05 mg/m3  | Respirable dust.        |
| QUARTZ (SIO2) (CAS<br>14808-60-7)                | PEL  | 0.05 mg/m3  | Respirable dust.        |
| US. OSHA Table Z-3 (29 C                         | FR 1910.1000)  |             |                         |
| Components                                       | Туре   | Value       | Form                    |
| CRISTOBALITE (CAS 14464-46-1)                    | TWA  | 0.05 mg/m3  | Respirable.             |
|  |  | 1.2 mppcf   | Respirable.             |
| QUARTZ (SIO2) (CAS<br>14808-60-7)                | TWA  | 0.1 mg/m3   | Respirable.             |
|  |  | 2.4 mppcf   | Respirable.             |
| Constituents                                     | Туре   | Value       | Form                    |
| INERT OR NUISANCE<br>DUSTS                       | TWA  | 5 mg/m3     | Respirable fraction.    |
|  |  | 15 mg/m3    | Total dust.             |
|  |  | 50 mppcf    | Total dust.             |
|  |  | 15 mppcf    | Respirable fraction.    |
| US. ACGIH Threshold Lim                          | it Values  |             |                         |
| Components                                       | Туре   | Value       | Form                    |
| CRISTOBALITE (CAS 14464-46-1)                    | TWA  | 0.025 mg/m3 | Respirable fraction.    |
| QUARTZ (SIO2) (CAS<br>14808-60-7)                | TWA  | 0.025 mg/m3 | Respirable fraction.    |
| US. NIOSH: Pocket Guide                          | to Chemical Hazards  |             |                         |
| Components                                       | Туре   | Value       | Form                    |
| CRISTOBALITE (CAS 14464-46-1)                    | TWA  | 0.05 mg/m3  | Respirable dust.        |
| QUARTZ (SIO2) (CAS<br>14808-60-7)                | TWA  | 0.05 mg/m3  | Respirable dust.        |
| logical limit values                             | No biological exposure limits noted for the ingredient(s).   |             |                         |
| osure guidelines                                 | Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.  |             |                         |
| propriate engineering<br>trols                   | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. It exposure limits have not been established, maintain airborne levels to an acceptable level. |             |                         |
| vidual protection measure<br>Eye/face protection | s, such as personal protective equipmer<br>Wear safety glasses with side shields (   |             | dustrial settings only. |
| Skin protection<br>Hand protection               | Suitable gloves can be recommended by the glove supplier. Applicable for industrial settings on  |             |                         |
| Other  | Applicable for industrial settings only. Use of protective coveralls and long sleeves is recommended.  |             |                         |
| Respiratory protection                           | Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit. Applicable for industrial settings only. In case of inadequate ventilation, use respiratory protection.  |             |                         |
|  | respiratory protection.  |             |                         |

Material name: VOLCLAY® CP-200

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Lump, granular or fine powder. **Appearance** 

Physical state Solid.

**Form** Solid. Various. Color Various. Odor None.

**Odor threshold** Not applicable.

8.5 - 11

> 842 °F (> 450 °C) / Not applicable. Melting point/freezing point

Initial boiling point and boiling

range

Not applicable.

Not applicable.

Not applicable.

Flammability (solid, gas) This product is not flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flash point **Evaporation rate** 

Not applicable.

Flammability limit - lower

(%) temperature

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Flammability limit - upper

(%) temperature

Not applicable.

Explosive limit - lower (%) Not applicable.

Explosive limit - lower (%) temperature

Not applicable.

Explosive limit - upper (%)

Not applicable.

Explosive limit - upper (%)

temperature

Not applicable.

Vapor pressure Not applicable. Not applicable. Vapor density 2.6 g/cm3 Relative density

Solubility(ies)

Solubility (water) < 0.9 mg/l **Partition coefficient** Not applicable.

(n-octanol/water)

**Auto-ignition temperature** Not applicable. > 932 °F (> 500 °C) **Decomposition temperature** 

**Viscosity** Not applicable. Not applicable. Viscosity temperature

Other information

0.9 - 1.4 g/cm<sup>3</sup> **Bulk density Explosive limit** Not applicable.

**Explosive properties** Not explosive. Not explosive

Not applicable. **Explosivity** Not applicable. Fire point Flame extension Not applicable. Flame projection Not applicable. **Flammability** Not applicable. Flammability (flash back) Not applicable. Flammability (Heat of

combustion)

Not applicable.

Flammability (Train fire) Not applicable. Flammability class Not applicable. Flash point class Not flammable **UVCB** Substance Molecular formula Not applicable. Molecular weight Oxidizing properties Not oxidizing. None.

0 % Percent volatile pH in aqueous solution 8.5 - 11

Specific gravity Not applicable.

VOC 0 % **CARB** 

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the decomposition temperature. Contact with incompatible materials.

Incompatible materials Powerful oxidizers. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

**Acute toxicity** Not known.

Components **Species Test Results** 

CRISTOBALITE (CAS 14464-46-1)

Acute Oral

LD50 Rat > 22500 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Material name: VOLCLAY® CP-200

## Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

CRISTOBALITE (CAS 14464-46-1) 1 Carcinogenic to humans. QUARTZ (SIO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CRISTOBALITE (CAS 14464-46-1) Cancer QUARTZ (SIO2) (CAS 14808-60-7) Cancer US. National Toxicology Program (NTP) Report on Carcinogens

CRISTOBALITE (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

QUARTZ (SIO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be **Chronic effects** 

harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** possibility that large or frequent spills can have a harmful or damaging effect on the environment.

No data is available on the degradability of this product. Persistence and degradability

No data available. Bioaccumulative potential No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

Material name: VOLCLAY® CP-200

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

## SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7) Cancer CRISTOBALITE (CAS 14464-46-1) lung effects QUARTZ (SIO2) (CAS 14808-60-7) lung effects

CRISTOBALITE (CAS 14464-46-1) immune system effects QUARTZ (SIO2) (CAS 14808-60-7) immune system effects

CRISTOBALITE (CAS 14464-46-1) kidney effects QUARTZ (SIO2) (CAS 14808-60-7) kidney effects

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No (Exempt)

chemical

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Total food additive Administration (FDA) Direct food additive

GRAS food additive

#### **US** state regulations

## California Proposition 65



WARNING: This product can expose you to QUARTZ (SIO2), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

QUARTZ (SIO2) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7)

Material name: VOLCLAY® CP-200 4959 Version #: 24 Revision date: 25-October-2018 Issue date: 19-July-2018

#### International Inventories

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)         | No                     |
| Canada               | Domestic Substances List (DSL)                             | No                     |
| Canada               | Non-Domestic Substances List (NDSL)                        | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC) | No                     |
| Europe               | European Inventory of Existing Commercial Chemical         | No                     |

Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No **Philippines** Nο

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) No Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico No

## 16. Other information, including date of preparation or last revision

19-July-2018 Issue date **Revision date** 25-October-2018

Version # 24

**HMIS®** ratings Health: 3\*

Flammability: 0 Physical hazard: 0

Health: 2 NFPA ratings

Flammability: 0 Instability: 0

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and

completeness of such information for each particular use.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, CETCO, an MTI Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best

knowledge and experience currently available.

Hazard(s) identification: Prevention **Revision information** 

First-aid measures: Inhalation

Handling and storage: Conditions for safe storage, including any incompatibilities

Exposure controls/personal protection: Eye/face protection Exposure controls/personal protection: Hand protection Exposure controls/personal protection: Respiratory protection

Exposure controls/personal protection: Other Stability and reactivity: Conditions to avoid Regulatory information: US state regulations

Other information, including date of preparation or last revision: References

GHS: Classification

Material name: VOLCLAY® CP-200

SDS US

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).