### MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Material name **VOLCLAY WATERSTOPPAGE®** 

Version # 02

**Revision date** 17-Dec-2007 Manufacturer information CETCO

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### 2. Hazards Identification

**Emergency overview** Material can be slippery when wet

Potential health effects

Routes of exposure Inhalation. Eye contact.

Eyes Dust or powder may irritate eye tissue.

Skin Non-irritating to the skin.

Inhalation Repeated or prolonged inhalation may cause toxic effects. For additional information on

inhalation hazards, see Section 11 of this safety data sheet.

Ingestion No significant adverse effects are expected upon ingestion of the product.

**Target organs** Lungs.

Chronic effects This product has the potential for generation of respirable dust during handling and use.

Dust may contain respirable crystalline silica. Overexposure to dust may result in pneumocononiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

# 3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
BENTONITE	1302-78-9	90 - 100
Composition comments	Bentonite contains naturally occurring crystalline silica (not listed in Ani	nex I of Directive

67/548/EEC) in quantities less than 6%.

4. First Aid Measures

First aid procedures

Eye contact Flush eyes immediately with large amounts of water. Get medical attention if irritation

develops or persists.

Skin contact No special measures required. Get medical attention if irritation develops or persists.

Inhalation If symptoms are experienced, remove source of contamination or move victim to fresh air. If

the affected person is not breathing, apply artificial respiration. If breathing is difficult, give

oxygen. Call a physician if symptoms develop or persist.

No special measures required. If ingestion of a large amount does occur, seek medical Ingestion

attention.

Notes to physician Provide general supportive measures and treat symptomatically.

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# 5. Fire Fighting Measures

Flammable properties

None known.

**Extinguishing media** 

Suitable extinguishing

media

Use any media suitable for the surrounding fires. Dry chemical, CO2, water spray or regular

foam

Protection of firefighters

Protective equipment and precautions for firefighters

Material can be slippery when wet

### 6. Accidental Release Measures

**Personal precautions**Material can be slippery when wet. Wear a dust mask if dust is generated above exposure

limits.

**Environmental precautions** No special environmental precautions required.

Methods for containment

None necessary.

**Methods for cleaning up** Avoid the ge

Avoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with

water.

# 7. Handling and Storage

**Handling** Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at

places where dust is formed. In case of insufficient ventilation, wear suitable respiratory

equipment.

**Storage** Guard against dust accumulation of this material. No special storage conditions required. No

special restrictions on storage with other products.

# 8. Exposure Controls / Personal Protection

### Occupational exposure limits

**ACGIH** 

Constituents	CAS #	Туре	Value	Form
NUISANCE PARTICULATES	RR-00072-6	TWA	3 mg/m3	
		TWA (inhalable particles, reco	10 mg/m3	(inhalable particles, recommended)
QUARTZ	14808-60-7	TWA	0.025 mg/m3	(respirable fraction)
U.S OSHA				
Constituents	CAS #	Туре	Value	Form
NUISANCE PARTICULATES	RR-00072-6	TWA	5 mg/m3	(respirable fraction)

TWA (total dust) 15 mg/m3 (total dust)

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

NUISANCE PARTICULATES RR-00072-6 10 Mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles,

recommended)

should be monitored and controlled.

QUARTZ 14808-60-7 0.025 Mg/m3 TWA (respirable fraction)

**ACGIH - Threshold Limits Values - TLV Basis - Critical Effects** 

QUARTZ 14808-60-7 lung cancer; pulmonary fibrosis

U.S. - OSHA - Final PELs - Table Z-3 Mineral Dusts

QUARTZ 14808-60-7 ((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA

(respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

NUISANCE PARTICULATES RR-00072-6 15 Mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

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**Engineering controls** If material is ground, cut, or used in any operation which may generate dusts, use

> appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust

particulates below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Eye / face protection Wear dust goggles.

Skin protection No special protective equipment required.

**Respiratory protection** Use a particulate filter respirator for particulate concentrations exceeding the Occupational

Exposure Limit.

General hygeine Eye wash fountain is recommended. Use good industrial hygiene practices in handling this

considerations material.

# 9. Physical & Chemical Properties

**Appearance** Not available. Color Various. Odor None.

Odor threshold Not available.

Physical state Solid.

Pellets. Chips. Tablet. Form

РΗ 7 - 9

**Melting point** Not available. Freezing point Not available.

**Boiling point** 2192 °F (1200 °C) estimated

Flash point Not flammable **Evaporation rate** Not available. **Flammability** Not available. Flammability limits in air, Not explosive

upper, % by volume

Flammability limits in air,

lower, % by volume

Not explosive

Vapor pressure Not available. Not available. Vapor density

Specific gravity 2.6

**Relative density** Not available. Solubility (water) Negligible Not available. **Partition coefficient** 

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. VOC 0 % estimated Percent volatile 0 % estimated

### 10. Chemical Stability & Reactivity Information

Stable at normal conditions. **Chemical stability** 

Conditions to avoid None known. Incompatible materials None known. **Hazardous decomposition** None known.

products

Will not occur.

Possibility of hazardous reactions

# 11. Toxicological Information

### Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

QUARTZ 14808-60-7 Oral LD50 Rat: 500 mg/kg

### **Chronic effects**

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. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

### Carcinogenicity

**ACGIH - Threshold Limits Values - Carcinogens** 

QUARTZ 14808-60-7 A2 - Suspected Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

QUARTZ 14808-60-7 Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or

cristobalite from occupational sources)

NTP (National Toxicology Program) - Report on Carcinogens - Known Carcinogens

QUARTZ 14808-60-7 Known Cardinogen

### 12. Ecological Information

**Ecotoxicity** This material is not expected to be harmful to aquatic life.

**Environmental effects**Based on the physical properties of this product, significant environmental persistence and

bioaccumulation would not be expected.

Persistence and degradability

Not available.

### 13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations. Material should be recycled if possible.

# 14. Transport Information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

# 15. Regulatory Information

US federal regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

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

**Hazard categories** Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

Yes

chemical

### **Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICC	S) Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** WARNING: This product contains a chemical known to the State of California to cause

cancer.

U.S. - California - Proposition 65 - Carcinogens List

QUARTZ 14808-60-7 carcinogen, initial date 10/1/88 (airborne particles of respirable size)

U.S. - New Jersey - Right to Know Hazardous Substance List

QUARTZ 14808-60-7 sn 1660 **U.S. - Pennsylvania - RTK (Right to Know) List**QUARTZ 14808-60-7 Present

### 16. Other Information

**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.

**Further information** This safety datasheet only contains information relating to safety and does not replace any

product information or product specification.

**HMIS** ratings



NFPA ratings Health: 1

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.

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Other information

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