

## 1. Identification

<b>Product identifier</b>	<b>WATERSTOPPAGE®</b>		
<b>Other means of identification</b>	Not available.		
<b>Synonym(s)</b>	SMECTITE CLAY * BENTONITE		
<b>Recommended use</b>	Not available.		
<b>Recommended restrictions</b>	None known.		
<b>Manufacturer/Importer/Supplier/Distributor information</b>			
<b>Manufacturer</b>			
<b>Company name</b>	CETCO		
<b>Address</b>	2870 Forbs Avenue Hoffman Estates, IL 60192 United States		
<b>Telephone</b>	General Information	800 527-9948	
<b>Website</b>	<a href="http://www.cetco.com/">http://www.cetco.com/</a>		
<b>E-mail</b>	<a href="mailto:safety.data@amcol.com">safety.data@amcol.com</a>		
<b>Emergency phone number</b>	.		
<b>Americas</b>	1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962		

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.
<b>OSHA defined hazards</b>	Not classified.

### Label elements

<b>Hazard symbol</b>	None.
<b>Signal word</b>	Not available.
<b>Hazard statement</b>	Not available.
<b>Prevention</b>	Not available.
<b>Response</b>	Not available.
<b>Storage</b>	Not available.
<b>Disposal</b>	Not available.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

### Substances

Chemical name	Common name and synonyms	CAS number	%
WATERSTOPPAGE®	SMECTITE CLAY BENTONITE	1302-78-9	100

### Impurities

Chemical name	CAS number	%
QUARTZ	14808-60-7	<= 6

**Composition comments** Bentonite contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. Occupational Exposure Limits for impurities are listed in Section 8.

## 4. First-aid measures

<b>Inhalation</b>	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. Get medical attention if symptoms persist.
<b>Skin contact</b>	No special measures required. Get medical attention if irritation develops or persists.

<b>Eye contact</b>	Flush eyes immediately with large amounts of water. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	No special measures required. If ingestion of a large amount does occur, seek medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam. Use any media suitable for the surrounding fires.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire-fighting equipment/instructions</b>	Material can be slippery when wet..

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Material can be slippery when wet. Forms smooth, slippery surfaces on floors, posing an accident risk. Wear a dust mask if dust is generated above exposure limits.
<b>Methods and materials for containment and cleaning up</b>	None necessary. Reduce airborne dust and prevent scattering by moistening with water. Avoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum cleaner with a HEPA filter.
<b>Environmental precautions</b>	No special environmental precautions required.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Material can be slippery when wet. Forms smooth, slippery surfaces on floors, posing an accident risk.  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.
<b>Conditions for safe storage, including any incompatibilities</b>	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

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Impurities	Type	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Impurities	Type	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 millions of particle	Total dust.
		15 millions of particle	Respirable fraction.
QUARTZ (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		2.4 millions of particle	Respirable.

**US. ACGIH Threshold Limit Values**

Impurities	Type	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable particles.
QUARTZ (CAS 14808-60-7)	TWA	10 mg/m3 0.025 mg/m3	Inhalable particles. Respirable fraction.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Impurities	Type	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear dust goggles.
<b>Hand protection</b>	Not available.
<b>Other</b>	No special protective equipment required.
<b>Respiratory protection</b>	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</b>	Eye wash fountain is recommended. Use good industrial hygiene practices in handling this material.

**9. Physical and chemical properties**

<b>Appearance</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Powder.
<b>Color</b>	Various.
<b>Odor</b>	None.
<b>Odor threshold</b>	Not available.
<b>pH</b>	8 - 11
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not flammable
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not explosive
<b>Flammability limit - upper (%)</b>	Not explosive
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0 kPa at 25 °C
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Negligible
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

**Molecular formula** UNKNOWN

**10. Stability and reactivity**

**Reactivity** Not available.

**Chemical stability** Stable at normal conditions.

**Possibility of hazardous reactions** Will not occur.

**Conditions to avoid** None known.

**Incompatible materials** None known.

**Hazardous decomposition products** None known.

**11. Toxicological information**

**Information on likely routes of exposure**

**Ingestion** Not available.

**Inhalation** Not available.

**Skin contact** Not available.

**Eye contact** Not available.

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

**Information on toxicological effects**

**Acute toxicity** Mild irritant to eyes (according to the modified Kay & Calandra criteria).

**Toxicological data**

<b>Impurities</b>	<b>Species</b>	<b>Test Results</b>
QUARTZ (CAS 14808-60-7)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	500 mg/kg

**Skin corrosion/irritation** Not available.

**Serious eye damage/eye irritation** Mild irritant to eyes (according to the modified Kay & Calandra criteria)

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

**Germ cell mutagenicity** Not available.

**Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity**

QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens**

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

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not available.

## 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.

## 12. Ecological information

### Ecotoxicity

This product has no known eco-toxicological effects. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Product	Species	Test Results
WATERSTOPPAGE® (CAS 1302-78-9)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)
		19000 mg/l, 96 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

Not available.

### Other adverse effects

Not available.

## 13. Disposal considerations

### Disposal instructions

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

### Hazardous waste code

Not regulated.

### Waste from residues / unused products

Not available.

### Contaminated packaging

Not available.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

## 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.

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

Not listed.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

#### Hazard categories

Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No  
**SARA 311/312 Hazardous chemical** No  
**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 Administration (FDA)** Total food additive  
 Direct food additive  
 GRAS food additive

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

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

QUARTZ (CAS 14808-60-7)

**US. Massachusetts RTK - Substance List**

QUARTZ (CAS 14808-60-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

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

**International Inventories**

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 Existing Commercial Chemical Substances (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 (PICCS)	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)  
 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).

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

**Issue date** 20-August-2014  
**Revision date** 20-August-2014  
**Version #** 10  
**Further information** This safety datasheet only contains information relating to safety and does not replace any product information or product specification.  
**HMIS® ratings** Health: 1\*  
 Flammability: 0  
 Physical hazard: 0  
**NFPA ratings** Health: 1  
 Flammability: 0  
 Instability: 0

## Disclaimer

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