

# SAFETY DATA SHEET

# 1. Identification

Product identifier	WATERSTOPPAGE		
Other means of identification			
CAS number	1302-78-9		
Synonyms	SMECTITE CLAY * BENTONITE		
Recommended use	Not available.		
Recommended restrictions	Workers (and your customers or users in the case of resale) should be informed of the potenti 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			
Company name	CETCO, an MTI Company		
Address	2870 Forbs Avenue		
	Hoffman Estates, IL 60192 United States		
Telephone	General Information 800 527-9948		
Website	http://www.cetco.com/		
E-mail	safetydata@mineralstech.com		
Emergency phone number	Emergency 1.866.519.4752/1 760 476 3962		
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		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
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 re and understood. 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.		
Response	If exposed or concerned: Get medical advice/attention.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulation	ons.	
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixtu consists of component(s) of unknown acute hazards to the aquatic environment.	ire	

# 3. Composition/information on ingredients

## Mixtures

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	5 - < 10
CRISTOBALITE		14464-46-1	1 - < 3
Other components below report	table levels		90 - 100
Constituents			
Chemical name	Common name and synonyms	CAS number	%
INERT OR NUISANCE DUSTS	PARTICLES NOT OTHERWISE REGULATED	SEQ250	
*Designates that a specific chemic	al identity and/or percentage of composition ha	as been withheld as a trade se	cret.
Composition comments	Occupational Exposure Limits for constituent	s are listed in Section 8.	
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if sympton	ns develop or persist.	
Skin contact	Wash off with soap and water. Get medical a	ttention if irritation develops a	nd persists.
Eye contact	Rinse with water. Get medical attention if irrit	ation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if sympto	oms occur.	
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effect	cts.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed.	eat symptomatically. Keep victi	m under observation.
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	Water fog. Foam. Dry chemical powder. Carl	oon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the	nis will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other inve	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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	Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Avoid discharge into drains, water courses of	r 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 rea and understood. Keep formation of airborne dusts to a minimum. Do not breathe dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly close away from incompatible materials (see Section	ed container. Keep out of the r	

# 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	s for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 C	FR 1910.1000)		
Components	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim Components	it Values Type	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
logical limit values	No biological exposure limits noted for the	ingredient(s).	
oosure guidelines	Occupational exposure to nuisance dust ( should be monitored and controlled.	total and respirable) and re	espirable crystalline silica
propriate engineering htrols	Good general ventilation (typically 10 air c should be matched to conditions. If applica or other engineering controls to maintain a exposure limits have not been established	able, use process enclosu airborne levels below reco	res, local exhaust ventilatio mmended exposure limits. I
ividual protection measure	s, such as personal protective equipment		·
Eye/face protection	Wear safety glasses with side shields (or g	goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant glove	es.	
Other	Use of an impervious apron is recommend		
Respiratory protection	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
neral hygiene nsiderations	Observe any medical surveillance requirements.		
Physical and chemical	properties		
pearance	F - F		
Physical state	Solid.		

Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not applicable.

рН	8.5 - 11			
Melting point/freezing point	> 842 °F (> 450 °C) / Not applicable.			
Initial boiling point and boiling range	Not applicable.			
Flash point	Not applicable.			
Evaporation rate	Not available.			
Flammability (solid, gas)	Not available.			
Upper/lower flammability or exp	losive limits			
Flammability limit - lower (%)	Not applicable.			
Flammability limit - upper (%)	Not applicable.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
Vapor pressure	Not applicable.			
Vapor density	Not applicable.			
Relative density	2.6 g/cm <sup>3</sup>			
Solubility(ies)				
Solubility (water)	< 0.9 mg/l			
Partition coefficient (n-octanol/water)	Not applicable.			
Auto-ignition temperature	Not applicable.			
Decomposition temperature	> 932 °F (> 500 °C)			
Viscosity	Not applicable.			
Viscosity temperature	Not applicable.			
Other information				
Bulk density	0.9 - 1.4 g/cm <sup>3</sup>			
Explosive limit	Not applicable.			
Explosive properties	Not explosive.			
Explosivity	Not applicable.			
Flame extension	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			
Molecular formula	UVCB Substance			
Molecular weight	Not applicable.			
Oxidizing properties	Not oxidizing.			
Percent volatile	0 %			
pH in aqueous solution	8.5 - 11			
Specific gravity	Not applicable.			
VOC	CARB 0 %			
10. Stability and reactivity				

## 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	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.	
Product	Species	Test Results
Bentonite (CAS 1302-78-9) <u>Acute</u> Inhalation Dust		
LC50 <b>Oral</b> <i>Dust</i>	Rat	> 5.27 mg/l, 4 hr OECD 436
LD50	Rat	> 2000 mg/kg OECD 425
Skin corrosion/irritation	Prolonged skin contact ma	ay cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes m	ay cause temporary irritation.
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitize	
Skin sensitization		ed to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	mutagenic or genotoxic. 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	•	·
QUARTZ (SIO2) (CAS 14 OSHA Specifically Regulate		1 Carcinogenic to humans. 0.1001-1053)
QUARTZ (SIO2) (CAS 14		Cancer
US. National Toxicology Pro	• • •	•
QUARTZ (SIO2) (CAS 14	,	Known To Be Human Carcinogen.
Reproductive toxicity	i his product is not expect	ed 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.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

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

Product		Species	Test Results	
Bentonite (CAS 1302-78-9)				
Aquatic				
Algae	EC50	Freshwater algae	> 100 mg/l, 72 hours	
Crustacea	EC50	Coon stripe shrimp (Pandalus danae)	24.8 mg/l, 96 hours	
		Daphnia	> 100 mg/l, 48 hours	
		Dungeness or edible crab (Cancer magister)	81.6 mg/l, 96 hours	
Fish	LC50	Freshwater fish	16000 mg/l, 96 hours	
		Marine water fish	2800 - 3200 mg/l, 24 hours	
rsistence and degradability	No data is a	No data is available on the degradability of any ingredients in the mixture.		
paccumulative potential	No data ava	No data available.		
bility in soil	No data ava	No data available.		
her adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
B. Disposal consideration	ons			
sposal 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.		
cal disposal regulations	Dispose in a	Dispose in accordance with all applicable regulations.		

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste<br/>disposal company.Waste from residues / unusedDispose of in accordance with local regulations. Empty containers or liners may retain some

products product residues / under 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.

ΙΑΤΑ

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.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) E Not regulated.	xport Notification (40 CFR 707, Subpt. D)	
CERCLA Hazardous Subs	tance List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency rele	ase notification	
Not regulated.		
	ted Substances (29 CFR 1910.1001-1053)	
QUARTZ (SIO2) (CAS	14808-60-7) Cancer lung effects immune system effects kidney effects	3
Superfund Amendments and I SARA 302 Extremely haza Not listed.	Reauthorization Act of 1986 (SARA) rdous substance	
SARA 311/312 Hazardous chemical	No (Exempt)	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	on 112 Hazardous Air Pollutants (HAPs) List	
	on 112(r) Accidental Release Prevention (40 CFR 68.130	0)
Not regulated.		
Safe Drinking Water Act (SDWA)	Contains component(s) regulated under the Safe Drink	king water Act.
Food and Drug Administration (FDA)	Total food additive Direct food additive GRAS food additive	
US state regulations		
California Proposition 65		
	his product can expose you to QUARTZ (SIO2), which is k ancer. For more information go to www.P65Warnings.ca.g	
California Proposition	65 - CRT: Listed date/Carcinogenic substance	
QUARTZ (SIO2) (0 US. California. Candio subd. (a))	CAS 14808-60-7) Listed: October 1, 1988 late Chemicals List. Safer Consumer Products Regulat	
QUARTZ (SIO2) (	CAS 14808-60-7)	
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 (IE	
Europe	European Inventory of Existing Commercial Chemical	No

onnia		
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

#### Country(s) or region

#### Inventory name

#### On inventory (yes/no)\* No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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	05-May-2020
Revision date	05-May-2020
Version #	11
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
Disclaimer	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.
Revision information	Product and Company Identification: Alternate Trade Names