

# SAFETY DATA SHEET

# 1. Identification

Product identifier	BELLE CRUMBLES
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 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	
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 read 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 regulations.
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 mixture consists of component(s) of unknown acute hazards to the aquatic environment.

# 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 (show the label where possible). Ensure that involved, and take precautions to protect the	medical personnel are aware	
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 p	protective clothing must be wor	n 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 per adequate ventilation. Local authorities should contained. For personal protection, see section	d be advised if significant spilla	
Methods and materials for containment and cleaning up	Put material in suitable, covered, labeled cor SDS.	ntainers. For waste disposal, se	ee section 13 of the
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 no and understood. Keep formation of airborne prolonged exposure. When using, do not eat systems, if possible. Provide adequate ventil equipment. Wash hands thoroughly after har	dusts to a minimum. Do not br , drink or smoke. Should be ha ation. Wear appropriate perso	eathe dust. Avoid andled in closed nal protective
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly close away from incompatible materials (see Section		each of children. Store

# 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 (total and respirable) and respirable crystalline silica should be monitored and controlled.		
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> Dust	Rat	> 5.27 mg/l, 4 hr OECD 436
LD50	Rat	> 2000 mg/kg OECD 425
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 sensit	
Skin sensitization		cted 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	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 I		nicity
QUARTZ (SIO2) (CAS 14		1 Carcinogenic to humans.
OSHA Specifically Regulate	-	910.1001-1052) Cancer
QUARTZ (SIO2) (CAS 14 US. National Toxicology Pro		
QUARTZ (SIO2) (CAS 14		Known To Be Human Carcinogen.
Reproductive toxicity	This product is not expe	-

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.			
3. 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 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

productsproduct residues. This material and its container must be disposed of in a safe manner (see:<br/>Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is<br/>emptied. Empty containers should be taken to an approved waste handling site for recycling or

# 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.

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

disposal.

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)

QUARTZ (SIO2) (CAS 14808-60-7)

Cancer lung effects immune system effects kidney effects

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

#### SARA 302 Extremely hazardous substance

Not listed.

## 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<br/>(SDWA)Not regulated.Food and Drug<br/>Administration (FDA)Total food additive<br/>Direct food additive<br/>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))

QUARTZ (SIO2) (CAS 14808-60-7)

## International Inventories

Country(s) or region	Inventory name Or	n 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 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	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No	
*A "Ves" indicates that all components of this product comply with the inventory requirements administered by the approximate country (a)			

\*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

05-December-2013

Revision date	23-July-2018
Version #	09
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	This document has undergone significant changes and should be reviewed in its entirety.