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

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

Specific target organ toxicity, repeated Category 1

exposure

Environmental 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 Keep out of reach of children. Read label before use. 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 medical advice is needed, have product container or label at hand. 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.

Other hazards 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

Material name: BELLE CRUMBLES

SDS CANADA

Chemical name	Common name and synonyms	CAS number	%
SILICA, CRYSTALLINE, QUARTZ		14808-60-7	5 - < 10
SILICA, CRYSTALLINE, CRISTOBALITE		14464-46-1	1 - < 3
Other components below reportab	le levels		90 - 100

Constituents

Chemical name	Common name and synonyms	CAS number	%
INERT OR	PARTICLES NOT OTHERWISE	SEQ250	
NUISANCE DUSTS	REGULATED		

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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

Rinse mouth. Get medical attention if symptoms occur. Ingestion

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

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

Accidental release measures

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 **Environmental precautions**

Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the

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

Material name: BELLE CRUMBLES

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
	cupational Health & Safety Code, Sch	edule 1, Table 2)	
Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total particulate.
	DELs. (Occupational Exposure Limits	for Chemical Substances, Oc	cupational Health and
Safety Regulation 296/97, a		W.L.	F
Components	Туре	Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable fraction.
50313		10 mg/m3	Total dust.
Canada. Manitoba OELs (Ro	eg. 217/2006, The Workplace Safety A Type	And Health Act) Value	Form
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
,	ntrol of Exposure to Biological or Ch	omical Agenta	
Components	Type	Value	Form
SILICA, CRYSTALLINE,	TWA	0.1 mg/m3	Respirable fraction.
QUARTZ (CAS 14808-60-7)		og,o	
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Canada. Quebec OELs. (Min	nistry of Labor - Regulation respectir	ng occupational health and sa	fety)
Components	Туре	Value	Form
			D : 11 1 1
	TWA	0.1 mg/m3	Respirable dust.
QUARTZ (CAS 14808-60-7)	TWA Type	0.1 mg/m3 Value	Form
QUARTZ (CAS 14808-60-7) Constituents INERT OR NUISANCE		-	•
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Constituents INERT OR NUISANCE DUSTS ogical limit values	Туре	Value 10 mg/m3	Form
QUARTZ (CAS 14808-60-7) Constituents INERT OR NUISANCE DUSTS	Type TWA	Value 10 mg/m3 or the ingredient(s).	Form Total dust.
QUARTZ (CAS 14808-60-7) Constituents INERT OR NUISANCE DUSTS ogical limit values	Type TWA No biological exposure limits noted for Occupational exposure to nuisance of the occupation occupati	Value 10 mg/m3 or the ingredient(s). dust (total and respirable) and respirable, and respirable, and respirable, and respirable, use process enclosure tain airborne levels below recor	Form Total dust. espirable crystalline silica e used. Ventilation rates es, local exhaust ventilation mended exposure limits.
QUARTZ (CAS 14808-60-7) Constituents INERT OR NUISANCE DUSTS ogical limit values osure guidelines propriate engineering trols	Type TWA No biological exposure limits noted to Occupational exposure to nuisance of should be monitored and controlled. Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main	Value 10 mg/m3 or the ingredient(s). dust (total and respirable) and respirable, and respirable, use process enclosure tain airborne levels below recorrished, maintain airborne levels	Form Total dust. espirable crystalline silica e used. Ventilation rates es, local exhaust ventilation mended exposure limits.

Material name: BELLE CRUMBLES

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Use of an impervious apron is recommended.

Respiratory protectionUse a particulate filter respirator for particulate concentrations exceeding the Occupational

Exposure Limit.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state Solid.
Form Solid.

ColorNot available.OdorNot available.Odor thresholdNot applicable.

pH 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 explosive 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/cm³

Solubility(ies)

Solubility (water) < 0.9 mg/l

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperature> 932 °F (> 500 °C)ViscosityNot applicable.Viscosity temperatureNot applicable.

Other information

Bulk density 0.9 - 1.4 g/cm³ Not applicable. **Explosive limit Explosive properties** Not explosive. **Explosivity** Not applicable. Flame extension Not applicable. **Flammability** Not applicable. Flammability (flash back) Not applicable. Flammability (Heat of Not applicable.

combustion)

Material name: BELLE CRUMBLES
5303 Version #: 09 Revision date: 23-July-2018 Issue date: 23-July-2018

Flammability (Train fire)
Not applicable.
Flammability class
Not applicable.
Not applicable.
Wolecular formula
Not applicable.
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 0 %

10. Stability and reactivity

ReactivityThe 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 avoidAvoid 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)

Acute

Inhalation

Dust

LC50

Rat > 5.27 mg/l, 4 hr OECD 436

Oral

Dust

LD50 Rat

> 2000 mg/kg OECD 425

Skin corrosion/irritation Serious eye damage/eye

irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Material name: BELLE CRUMBLES

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.

ACGIH Carcinogens

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

US. National Toxicology Program (NTP) Report on Carcinogens

SILICA, CRYSTALLINE, QUARTZ (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.

Not an aspiration hazard. 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

Ecotoxicity

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.

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

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
sistence and degradability	No data is a	available on the degradability of any ingredic	ents in the mixture.
accumulative potential	No data ava	ailable.	
bility in soil	No data ava	ailable.	
er adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation		

5303 Version #: 09 Revision date: 23-July-2018 Issue date: 23-July-2018

13. Disposal considerations

Disposal instructionsCollect 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.

Hazardous waste code

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

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

TDG

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 applicable.

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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 Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

5303 Version #: 09 Revision date: 23-July-2018 Issue date: 23-July-2018

Country(s) or region Inventory name On inventory (yes/no)*

KoreaExisting Chemicals List (ECL)NoNew ZealandNew Zealand InventoryNo

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

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

No

*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

Issue date23-July-2018Revision date23-July-2018

Version # 09

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: Synonyms

Composition / Information on Ingredients: Ingredients

Regulatory Information: United States

GHS: Classification

Material name: BELLE CRUMBLES SDS CANADA

No