# SAFETY DATA SHEET



#### 1. Identification

Product identifier ULTRASEAL® BT

Other means of identification None.

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

Category 1

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

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. 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** 74% of the mixture consists of component(s) of unknown acute oral toxicity. 100% of the mixture

consists of component(s) of unknown acute dermal toxicity. 26% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 2% of the mixture consists

of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

**Mixtures** 

Material name: ULTRASEAL® BT SDS CANADA

5331 Version #: 10 Revision date: 02-March-2019 Issue date: 24-July-2018

Chemical name	Common name and synonyms	CAS number	%
ACRYLIC RESIN		9003-01-4	26
SODIUM ACRYLATE		7446-81-3	2
Other components below r	eportable levels		72

#### Constituents

Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	<= 4.3
CRISTOBALITE		14464-46-1	<= 1.4

<sup>#:</sup> This substance has been assigned Community workplace exposure limit(s).

# 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 constituents are listed in

Section 8.

# 4. First-aid measures

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get medical attention, if needed.

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

Prolonged exposure may cause chronic effects.

**Eye contact** Flush eyes immediately with large amounts of water. If irritation persists get medical attention. **Ingestion** If ingestion of a large amount does occur, seek medical attention. No special measures required.

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.

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

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Material can be slippery when wet.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use st

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

**General fire hazards** Not a fire hazard. No unusual fire or explosion hazards noted.

None known.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Wear a dust mask if dust is generated above exposure limits. 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

Avoid the generation of dusts during clean-up. This product is miscible in water. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Reduce airborne dust and prevent scattering by moistening with water.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

Material name: ULTRASEAL® BT SDS CANADA

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

# 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. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. In case of insufficient ventilation, wear suitable respiratory equipment. 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. No special restrictions on storage with other products. Store in original tightly closed container. Store in a dry place. Guard against dust accumulation of this material. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS). Keep in a cool, well-ventilated place.

Value

**Form** 

# 8. Exposure controls/personal protection

Type

# Occupational exposure limits

Constituents

US.	<b>ACGIH</b>	<b>Threshold</b>	Limit	<b>Values</b>
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Constituents	туре	Value	
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupation Constituents	onal Health & Safety Code, Scl Type	hedule 1, Table 2) Value	Form
TRADE SECRET	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total particulate.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable particles.
		0.025 mg/m3	Respirable.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		s for Chemical Substances, Oc	ccupational Health and
Constituents	Туре	Value	Form
TRADE SECRET	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety		_
Constituents	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Ontario OELs. (Control o		<u> </u>	_
Constituents	Туре	Value	Form
TRADE SECRET	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (Ministry Constituents	of Labor - Regulation respecti Type	ing occupational health and sa Value	fety) Form

Material name: ULTRASEAL® BT SDS CANADA

TWA

TRADE SECRET

Total dust.

10 mg/m3

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)				
Constituents	Туре	Value	Form	
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.	_
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.	

Canada. Saskatchewan OELs	(Occupational Health	and Safety Regulations.	1996, Table 21)

Constituents	Туре	Value	Form
TRADE SECRET	15 minute	6 mg/m3	Respirable fraction.
		20 mg/m3	Inhalable fraction.
	8 hour	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
CRISTOBALITE (CAS 14464-46-1)	15 minute	10 mg/m3	Inhalable fraction.
	8 hour	0.05 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	8 hour	0.05 mg/m3	Respirable fraction.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**Some of the components of this product are hazardous in the respirable form. However, because

of the physical nature of this product, dust generation is not expected.

Appropriate engineering controls

If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear dust goggles. Avoid contact with eyes. Eye wash fountain is recommended.

Skin protection

**Hand protection** Not normally needed. Wear appropriate chemical resistant gloves.

Other Use of an impervious apron is recommended. No special protective equipment required.

Exposure Limit.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Use good industrial hygiene practices in handling this material.

# 9. Physical and chemical properties

Appearance The product consists of bentonite granules between geotextile layers

Physical stateSolid.FormSolid.

ColorNot available.OdorNot available.Odor thresholdNot available.

**pH** 7 - 11 7 - 11

Melting point/freezing point 842 °F (450 °C) estimated

Initial boiling point and boiling

range

Not available.

Flash point Non-flammable Evaporation rate Not available.

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Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper N

Flammability limit - lower

(%)

Not available.

Non-explosive

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00004 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Negligible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Percent volatile 0 % estimated

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid None known. Contact with incompatible materials.

Incompatible materialsNone known.Hazardous decompositionNone known.

products

# 11. Toxicological information

Information on likely routes of exposure

InhalationNot available.Skin contactNot available.Eye contactNot available.IngestionNot available.

Symptoms related to the

Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

ACRYLIC RESIN (CAS 9003-01-4)

Acute Oral

LD50 Rat 2500 mg/kg

Material name: ULTRASEAL® BT SDS CANADA

**Species** Constituents **Test Results** 

CRISTOBALITE (CAS 14464-46-1)

**Acute** Oral

LD50 Rat > 22500 mg/kg

Not available. Skin corrosion/irritation

Serious eye damage/eye

irritation

Mild irritant to eyes (according to the modified Kay & Calandra criteria) Mild irritant to eyes

(according to the modified Kay & Calandra criteria)

Respiratory or skin sensitization Canada - Alberta OELs: Irritant

> CRISTOBALITE (CAS 14464-46-1) Irritant

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.

Not available. Germ cell mutagenicity

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded Carcinogenicity

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** 

A2 Suspected human carcinogen. CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7) A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

CRISTOBALITE (CAS 14464-46-1) Suspected human carcinogen. QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

CRISTOBALITE (CAS 14464-46-1) Suspected human carcinogen. QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

CRISTOBALITE (CAS 14464-46-1) Detected carcinogenic effect in animals. QUARTZ (SIO2) (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRISTOBALITE (CAS 14464-46-1) 1 Carcinogenic to humans. QUARTZ (SIO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

CRISTOBALITE (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

QUARTZ (SIO2) (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

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not available.

Material name: ULTRASEAL® BT SDS CANADA

#### **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. Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected.

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

# 12. Ecological information

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

Components **Species Test Results** 

ACRYLIC RESIN (CAS 9003-01-4)

Aquatic

LC50 Fish Fish 580 mg/L, 96 Hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available.

Other 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.

# 13. Disposal considerations

**Disposal 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. Material

should be recycled if possible.

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

Not regulated as dangerous goods.

**IATA** 

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

Material name: ULTRASEAL® BT SDS CANADA

# 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

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws.

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

# **Kyoto protocol**

Not applicable.

# **Montreal Protocol**

Not applicable.

# **Basel Convention**

Not applicable.

Country(s) or region

# **International Inventories**

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	No

<sup>(</sup>PICCS)

Inventory name

TaiwanTaiwan Chemical Substance Inventory (TCSI)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

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 date24-July-2018Revision date02-March-2019

Version # 10

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

information or product specification.

Material name: ULTRASEAL® BT SDS CANADA

On inventory (yes/no)\*

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 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 information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. 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

Composition / Information on Ingredients: Ingredients

Composition/information on ingredients: Composition comments

GHS: Classification