MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	**ULTRASEAL® BT**
Version #	12
Revision date	24-February-2011
CAS #	Mixture
Manufacturer information	CETCO Building Materials Group 2870 Forbs Avenue Hoffman Estates, IL 60192 US safety.data@amcol.com http://www.cetco.com/ General Information (800) 527-9948 CHEMTREC® (800) 424-9300

2. Hazards Identification

Emergency overview

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. Contact with this material will cause burns to the skin, eyes and mucous membranes. Highly flammable.

Potential health effects

Routes of exposure	Inhalation.
Eyes	Dust or powder may irritate eye tissue. Substance causes severe eye irritation; injury may be permanent, Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.
Skin	Non-irritating to the skin. Contact may irritate or burn skin and Immediately corrosive; causes permanent skin damage.
Inhalation	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. For additional information on inhalation hazards, see Section 11 of this safety data sheet. Inhalation of vapors or mists of the product may be irritating to the respiratory system. Inhaled corrosive substances can lead to a toxic edema of the lungs.
Ingestion	No significant adverse effects are expected upon ingestion of the product. Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. Ingestion of this product may cause nausea, vomiting and diarrhea. Aspiration into lungs may cause chemical pneumonia and lung damage.

Target organs Lungs.

Chronic effects 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. Overexposure to dust may result in pneumocononiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue.

3. Composition / Information on Ingredients

Components	CAS #	Percent
BENTONITE	1302-78-9	60 - 100

Composition comments This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 3%.

4. First Aid Measures

First aid procedures

Eye contact	Flush eyes immediately with large amounts of water. If irritation persists get medical attention.
Skin contact	No special measures required. Get medical attention if irritation develops or persists.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention, if needed.
Ingestion	No special measures required. If ingestion of a large amount does occur, seek medical attention.

Notes to physician Provide general supportive measures and treat symptomatically.

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

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

Fire fighting equipment/instructions Not available.

Hazardous combustion products None known.

6. Accidental Release Measures

Personal precautions Wear a dust mask if dust is generated above exposure limits.

Environmental precautions No special environmental precautions required.

Methods for cleaning up Avoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.

7. Handling and Storage

Handling 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.

Storage Store in a dry place. Keep in a cool, well-ventilated place. Guard against dust accumulation of this material. No special restrictions on storage with other products.

8. Exposure Controls / Personal Protection

Occupational exposure limits

Canada - British Columbia

Constituents	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	10.0000 mg/m3	Total dust.
		3.0000 mg/m3	Respirable fraction.

Canada - Ontario

Constituents	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	3.0000 mg/m3	Respirable particles.
		10.0000 mg/m3	Inhalable particulate.

Canada - Quebec

Constituents	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	10.0000 mg/m3	Total dust.

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.

Engineering controls 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.

Personal protective equipment

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

Skin protection No special protective equipment required.

Respiratory protection Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

9. Physical & Chemical Properties

Appearance The product consists of bentonite granules between geotextile layers

Color Not available.

Odor Not available.

Odor threshold Not available.

Physical state Not available.

Form Solid.

pH	7 - 11
Melting point/Freezing point	Not available.
Boiling point	Not available.
Flash point	Non-flammable
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Non-explosive
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Relative density	Not available.
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	None known.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Chronic effects

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.

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

Ecotoxicological data

Product	**Test Results**
ULTRASEAL® BT (Mixture)	LC50 Fish: 26389 mg/l 96.00 Hours estimated

Components	**Test Results**
BENTONITE (1302-78-9)	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 19000 mg/l 96.00 hours

Ecotoxicity	This material is not expected to be harmful to aquatic life.
Environmental effects	Ecological injuries are not known or expected under normal use.
Persistence and degradability	Not available.

13. Disposal Considerations

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

14. Transport Information

TDG

Not regulated as dangerous goods.

15. Regulatory Information

WHMIS status	Controlled
WHMIS classification	D2A - Other Toxic Effects-VERY TOXIC

WHMIS labeling

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	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

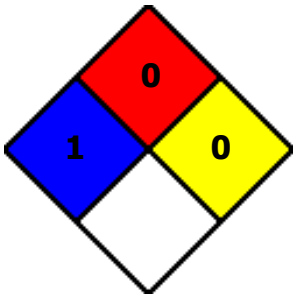
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

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

HMIS ratings

NFPA ratings



Disclaimer

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Prepared by EHS Department

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