MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name	VOLCLAY® CP-200
Version #	02
Revision date	18-August-2009
Synonym(s)	BENTONITE * SMECTITE CLAY
Company	CETCO Lining Technologies Group 2870 Forbs Avenue Hoffman Estates, IL 60192 US safetydata@amcol.com http://www.cetco.com/LT/ General Information (800) 527-9948 Emergency (800) 424-9300
2. Hazards Identification	
Emergency overview	Material can be slippery when wet
Potential health effects	
Routes of exposure	Inhalation.
Eyes	Dust or powder may irritate eye tissue. Symptoms include itching, burning, redness and tearing.
Skin	Non-irritating to the skin.
Inhalation	Repeated or prolonged inhalation may cause toxic effects. For additional information on inhalation hazards, see Section 11 of this safety data sheet.
Ingestion	No significant adverse effects are expected upon ingestion of the product.
Target organs	Lungs.
Chronic effects	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

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

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 impurities are listed in Section 8.

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	This material will not burn.
Extinguishing media Suitable extinguishing media	Use any media suitable for the surrounding fires. Dry chemical, CO2, water spray or regular foam.
Protection of firefighters Protective equipment and precautions for firefighters	Material can be slippery when wet

6. Accidental Release Measures

Personal precautions	Material can be slippery when wet. 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

HandlingKeep 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.StorageGuard against dust accumulation of this material. No special storage conditions required. No
special restrictions on storage with other products.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH				
Constituents		Туре	Value	Form
INERT OR NUISANCE DUST (SEQ250)		TWA	10 mg/m3 3 mg/m3	Inhalable particles. Respirable particles.
QUARTZ (14808-60-7)		TWA	0.025 mg/m3	Respirable fraction.
U.S OSHA				
Constituents		Туре	Value	Form
INERT OR NUISANCE DUST (SEQ250)		PEL	15 mg/m3 5 mg/m3	Total dust. Respirable fraction.
		TWA	5 mg/m3 50 mppcf 15 mppcf	Respirable fraction. Total dust. Respirable fraction. Total dust.
QUARTZ (14808-60-7)		TWA	15 mg/m3 2.4 mppcf 0.3 mg/m3 0.1 mg/m3 0.1 mg/m3	Respirable. Total dust. Respirable. Respirable dust.
oosure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.			
gineering 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.			
sonal protective equipment				
Eye / face protection	Wear dust goggle	S.		

Skin protection No special protective equipment required.

Respiratory protection	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
General hygeine considerations	Use good industrial hygiene practices in handling this material. Eye wash fountain is recommended.

9. Physical & Chemical Properties

Appearance	Not available.
Color	Various.
Odor	None.
Odor threshold	Not available.
Physical state	Solid.
Form	Granular.
рН	7 - 9

Not available.
Not available.
Not available.
Non-flammable
Not available.
Not available.
Not available.
Non-explosive
Not available.
Not available.
Not available.
Not available.
Negligible
Not available.
Not available.
Not available.
65 lb/ft3

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

Local effects	Mild irritant to eyes (according to the modified Kay & Calandra criteria)	
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. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.	
Sensitization	Not a skin sensitizer.	
Carcinogenicity		
IARC Monographs: Overall eva	luation	
QUARTZ (14808-60-7)	1 Carcinogenic to humans.	
US ACGIH Threshold Limit Valu		
QUARTZ (14808-60-7)	Group A2 Suspected human carcinogen.	
US NTP Report on Carcinogens QUARTZ (14808-60-7)	Known carcinogen Known carcinogen.	
QUARIZ(14000-00-1)	Known Calcinogen.	

12. Ecological Information

Ecotoxicological data

Product	Test Results
VOLCLAY® CP-200	LC50 Fish: 19005 mg/l 96.00 Hours estimated

* Estimates for product may be based on additional component data not shown.

Ecotoxicity	The product is not expected to be hazardous to the environment. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Environmental effects	Ecological injuries are not known or expected under normal use. Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.

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

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	Yes	
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)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (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 component	ents of this product comply with the inventory requirements administered by the go	verning country(s)
State regulations	WARNING: This product contains a chemical known to the State of Cal	ifornia to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance QUARTZ (14808-60-7) Listed. US - California Proposition 65 - CRT: Listed date/Carcinogenic substanceQUARTZ (14808-60-7)Listed: October 1, 1988 Carcinogenic.US - Pennsylvania RTK - Hazardous Substances: Listed substanceQUARTZ (14808-60-7)Listed.

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16. Other Information

Further information

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

HMIS ratings

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	PHYSICAL HAZARD O
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
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.
Issue date	18-August-2009
This data sheet contains changes from the previous version in section(s):	Hazards Identification: Eyes Hazards Identification: Chronic effects Composition / Information on Ingredients: Composition comments Exposure Controls / Personal Protection: Eye / face protection Exposure Controls / Personal Protection: General hygeine considerations Toxicological Information: Sensitization Toxicological Information: Local effects Ecological Information: Ecotoxicity Ecological Information: Environmental effects Other Information: Other information Other Information: Recommended restrictions
Other information	CETCO is an AMCOL International company.