



1. Product and Company Identification

Material name	VOLTEX® CR	
Version #	01	
Revision date	16-June-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	This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica.	
Potential health effects		
Routes of exposure	Inhalation. Eye contact.	
Eyes	Dust or powder may irritate eye tissue.	
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 hazard in normal industrial use. 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. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.	

3. Composition / Information on Ingredients

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

Composition comments	This product 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. Get medical attention if irritation develops or persists.
Skin contact	No special measures required. Get medical attention if irritation develops or persists.
Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.
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	The product is not flammable.
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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	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
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	recautions No special environmental precautions required.	
Methods for containment	None necessary.	
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	Guard 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

US. ACGIH Threshold Limit Values

Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	TWA	3.0000 mg/m3	Respirable particles.
, , , , , , , , , , , , , , , , , , ,		10.0000 mg/m3	Inhalable particles.
QUARTZ (14808-60-7)	TWA	0.0250 mg/m3	Respirable fraction.
		4000	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	PEL	5.0000 mg/m3	Respirable fraction.
, , , , , , , , , , , , , , , , , , ,		15.0000 mg/m3	Total dust.
	TWA	50.0000 mppcf	Total dust.
		15.0000 mg/m3	Total dust.
		15.0000 mppcf	Respirable fraction.
		5.0000 mg/m3	Respirable fraction.
QUARTZ (14808-60-7)	TWA	0.1000 mg/m3	Respirable.
		0.3000 mg/m3	Total dust.
		2.4000 mppcf	Respirable.
posure guidelines	Occupational exposure to nuisance de should be monitored and controlled.	ust (total and respirable) and res	pirable crystalline silica
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.		
rsonal protective equipment			
Eye / face protection	Wear dust goggles.		

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Skin protection	No special protective equipment required.
Respiratory protection	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
General hygiene considerations	Eye wash fountain is recommended. Use good industrial hygiene practices in handling this material.

9. Physical & Chemical Properties

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Appearance	The product consists of bentonite granules between geotextile layers
Physical state	Solid.
Form	Mat or Fabric
Color	Various.
Odor	None.
Odor threshold	Not available.
рН	Not available.
Vapor pressure	0 hPa estimated
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Relative density	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
voc	0 % estimated
Percent volatile	0 % estimated

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

Toxicological data	
Constituents	Test Results
QUARTZ (14808-60-7)	Acute Oral LD50 Rat: 500 mg/kg

Sensitization

No sensitization responses were observed.

Chronic effects	inhaled from occupational sour overall evaluation, IARC noted circumstances studied. Carcino crystalline silica or on external polymorphs." (IARC Monograp humans, Silica, silicates dust a In June 2003, SCOEL (the EU that the main effect in humans "There is sufficient information persons with silicosis (and, app quarries and in the ceramic inc the cancer risk" (SCOEL SUI According to the current state of assured by respecting the exis	al Agency for Research on Cancer) concluded that crystalline silica rese can cause lung cancer in humans. However in making the that "carcinogenicity was not detected in all industrial ogenicity may be dependent on inherent characteristics of the factors affecting its biological activity or distribution of its obs on the evaluation of the carcinogenic risks of chemicals to and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) Scientific Committee on Occupational Exposure Limits) concluded of the inhalation of respirable crystalline silica dust is silicosis. to conclude that the relative risk of lung cancer is increased in parently, not in employees without silicosis exposed to silica dust in fustry). Therefore, preventing the onset of silicosis will also reduce M Doc 94-final, June 2003) of the art, worker protection against silicosis can be consistently ting regulatory occupational exposure limits. Occupational al and respirable) and respirable crystalline silica should be
Carcinogenicity		
ACGIH Carcinogens		
QUARTZ (CAS 14808-60-7)		A2 Suspected human carcinogen.
IARC Monographs. Overall E	Evaluation of Carcinogenicity	
QUARTZ (CAS 14808-60-7)		1 Carcinogenic to humans.
US NTP Report on Carcinog	ens: Known carcinogen	
QUARTZ (CAS 14808-60	-7)	Known carcinogen.
12. Ecological Information		

degradability	

13. Disposal Considerations

Disposal instructions

Ecotoxicological data

VOLTEX® CR (Mixture)

Environmental effects

Persistence and

Product

Ecotoxicity

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

LC50 Fish: 10364.7 mg/l 96.00 hours estimated

Test Results

This product is not expected to produce significant ecotoxicity upon exposure to aquatic

Based on the physical properties of this product, significant environmental persistence and

14. Transport Information

DOT

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.

organisms and aquatic systems.

Not available.

bioaccumulation would not be expected.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)

Not regulated DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	No	
Inventory status		
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)	No
Korea	Existing Chemicals List (ECL) No	
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
	nents of this product comply with the inventory requirements administered by the gove	
State regulations	WARNING: This product contains a chemical known to the State of California	ornia to cause cancer.
•	65 - CRT: Listed date/Carcinogenic substance	
QUARTZ (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic. Sodium o-phenylphenol (CAS 132-27-4) Listed: January 1, 1990 Carcinogenic. US - Pennsylvania RTK - Hazardous Substances: Listed substance		
QUARTZ (CAS 14808-60	-7) Listed.	
16. Other Information		
Recommended restrictions	Workers (and your customers or users in the case of resale) should be informer presence of respirable dust and respirable crystalline silica as well as their Appropriate training in the proper use and handling of this material should under applicable regulations.	r potential hazards.

Further information	This safety datasheet only contains information relating to safety and does not replace any product information or product specification.
HMIS® ratings	Health: 1* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 0 Instability: 0

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