

1. Product and Company Identification

Material name	VOLTEX® DS
Version #	02
Revision date	03-Mar-2008
CAS #	Mixture
Manufacturer information	CETCO Building Materials Group One North Arlington 1500 West Shure Drive Arlington Heights, IL 60004 US safety.data@amcol.com http://www.cetco.com/bmg/home.htm 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%.

4. First Aid Measures

Skin contactNo special measures required. Get medical attention if in InhalationInhalationIf symptoms are experienced, remove source of contami the affected person is not breathing, apply artificial respi oxygen. Call a physician if symptoms develop or persist.IngestionNo special measures required. If ingestion of a large amo attention.	ount does occur, seek medical
Skin contactNo special measures required. Get medical attention if in InhalationInhalationIf symptoms are experienced, remove source of contami the affected person is not breathing, apply artificial respi	and the second second second second second
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develops of persists.	ritation develops or persists.
First aid procedures Eye contact Flush eyes immediately with large amounts of water. Get develops or persists.	medical attention if irritation

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.

6. Accidental Release Measures

	cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.
Methods for cleaning up	Avoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum
Methods for containment	None necessary.
Environmental precautions	No special environmental precautions required.
Personal precautions	Wear a dust mask if dust is generated above exposure limits.

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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

ACGIH				
Impurities	CAS #	Туре	Value	Form
NUISANCE PARTICULATES	RR-00072-	6 TWA	3 mg/m3	
		TWA (inhalable particles, reco	10 mg/m3	(inhalable particles, recommended)
QUARTZ	14808-60-	7 TWA	0.025 mg/m3	(respirable fraction)
U.S OSHA				
Impurities	CAS #	Туре	Value	Form
NUISANCE PARTICULATES	RR-00072-	6 TWA	5 mg/m3	(respirable fraction)
		TWA (total dust)	15 mg/m3	(total dust)
ACGIH - Threshold Limits Va QUARTZ U.S OSHA - Final PELs - Ta	14808-60-7 lung	cancer; pulmonary fibrosis		
U.S OSHA - FINAI PELS - TA QUARTZ	Ie Z-3 Mineral Dusts 14808-60-7 (((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))			
ngineering 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.			
ersonal protective equipme	nt			
Eye / face protection	Wear dust goggle	es.		
Skin protection	No special protec	tive equipment required.		
Respiratory protection	Use a particulate Exposure Limit.	filter respirator for particula	ate concentrations exc	eeding the Occupationa

General hygeine considerations	Eye wash fountain is recommended. Use good industrial hygiene practices in handling this material.

9. Physical & Chemical Properties

Appearance	The product consists of bentonite granules between geotextile layers
Color	Various.

Odor	None.
Odor threshold	Not available.
Physical state	Solid.
Form	Mat or Fabric
рН	7 - 9 estimated
Melting point	Not available.
Freezing point	Not available.
Boiling point	2192 °F (1200 °C) estimated
Flash point	Not flammable
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air,	Not explosive
upper, % by volume	
Flammability limits in air,	Not explosive
lower, % by volume	
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	2.6 estimated
Relative density	Not available.
Solubility (water)	Negligible
Partition coefficient	Not available.
(n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition 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

Sensitization

No sensitization responses were observed.

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50sQUARTZ14808-60-7Oral LD50 Rat: 500 mg/kg

Chronic offects	In 1007 JADC (the International Acappy for Deceased on Cancer) concluded that exystalling	
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.	
Carcinogenicity		
ACGIH - Threshold Limits Valu	-	
QUARTZ IARC - Group 1 (Carcinogenic	14808-60-7 A2 - Suspected Human Carcinogen	
QUARTZ	14808-60-7 Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or	
NTP (National Toxicology Proc	cristobalite from occupational sources) gram) - Report on Carcinogens - Known Carcinogens	
QUARTZ	14808-60-7 Known Carcinogen	
12. Ecological Informa	tion	
Ecotoxicity	This product is not expected to produce significant ecotoxicity upon exposure to aquatic	
	organisms and aquatic systems.	
Environmental effects	Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.	
Persistence and degradability	Not available.	
13. Disposal Considera	itions	
Disposal instructions	Dispose in accordance with all applicable regulations. Material should be recycled if possible.	
14. Transport Informa	tion	
DOT		
Not regulated as dangerous g	oods.	
IATA		
Not regulated as dangerous g	oods.	
IMDG Not regulated as dangerous g	oods.	
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.	
CERCLA (Superfund) reportable None	le quantity	
	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) ³
Australia	Australian Inventory of Chemical Substances (AICS)	Ye
Canada	Domestic Substances List (DSL)	Ye
Canada	Non-Domestic Substances List (NDSL)	Ν
China	Inventory of Existing Chemical Substances in China (IECSC)	Ye
Europe	European Inventory of New and Existing Chemicals (EINECS)	Ye
Europe	European List of Notified Chemical Substances (ELINCS)	N
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Ye
Korea	Existing Chemicals List (ECL)	Ye
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (P	ICCS) Ye
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Ye
A "Yes" indicates that all compor	ents of this product comply with the inventory requirements administered b	y the governing country(s)
State regulations	WARNING: This product contains a chemical known to the Sta cancer.	ate of California to cause
	 165 - Carcinogens List 14808-60-7 carcinogen, initial date 10/1/88 (airborne particles of res Know Hazardous Substance List 14808-60-7 sn 1660 	pirable size)
QUARTZ U.S Pennsylvania - RTK (R i OUARTZ		
16. Other Information	1	
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.	
urther information	This safety datasheet only contains information relating to safety and does not replace any product information or product specification.	
HMIS ratings	HIS® HIS® HIS® HIS® HIS® HIS® HIS® HIS®	
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 manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or	

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.

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.

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