

SAFETY DATA SHEET

1. Identification

Product identifier VOLTEX®

Other means of identification Not available.

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

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CETCO

Address 2870 Forbs Avenue

Hoffman Estates, IL 60192

United States

Telephone General Information 800 527-9948

Website www.cetco.com
E-mail safetydata@amcol.com

Emergency phone number

Americas 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Impurities

Chemical name CAS number %

QUARTZ 14808-60-7

Composition comments Occupational Exposure Limits for impurities are listed in Section 8. 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

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.

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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

Eye contact Flush eyes immediately with large amounts of water. Get medical attention if irritation develops or

persists.

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If ingestion of a large amount does occur, seek medical attention. No special measures required. Ingestion

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Dry chemical, CO2, water spray or regular foam. Carbon

dioxide (CO2). Use any media suitable for the surrounding fires.

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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Material can be slippery when wet.

Fire-fighting equipment/instructions In the event of fire, cool tanks with water spray.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

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. Material can be slippery when wet. Wear a dust mask if dust is generated above exposure limits. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. None necessary. Reduce airborne dust and prevent scattering by moistening with water.

Environmental precautions No special environmental precautions required.

7. Handling and storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

No special restrictions on storage with other products. Store in original tightly closed container. No special storage conditions required. Store away from incompatible materials (see Section 10 of the SDS). Guard against dust accumulation of this material.

Value

Form

8. Exposure controls/personal protection

Occupational exposure limits

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

| impunites | rype | value | 1 01111 |
|--|---------|--------------------------|----------------------|
| INERT OR NUISANCE DUSTS (CAS SEQ250) | PEL | 5 mg/m3 | Respirable fraction. |
| , | | 15 mg/m3 | Total dust. |
| US. OSHA Table Z-3 (29 CFR 191 | 0.1000) | | |
| Impurities | Туре | Value | Form |
| INERT OR NUISANCE DUSTS (CAS SEQ250) | TWA | 5 mg/m3 | Respirable fraction. |
| , | | 15 mg/m3 | Total dust. |
| | | 50 millions of particle | Total dust. |
| | | 15 millions of particle | Respirable fraction. |
| QUARTZ (CAS 14808-60-7) | TWA | 0.3 mg/m3 | Total dust. |
| , | | 0.1 mg/m3 | Respirable. |
| | | 2.4 millions of particle | Respirable. |

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US. ACGIH Threshold Limit Values Form Impurities Type Value **INERT OR NUISANCE TWA** 3 mg/m3 Respirable particles. DUSTS (CAS SEQ250) Inhalable particles. 10 mg/m3 QUARTZ **TWA** 0.025 mg/m3 Respirable fraction. (CAS 14808-60-7) **US. NIOSH: Pocket Guide to Chemical Hazards Form Impurities** Value Type **QUARTZ** TWA 0.05 mg/m3 Respirable dust. (CAS 14808-60-7)

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

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica **Exposure guidelines**

should be monitored and controlled.

Appropriate 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.

Individual protection measures, such as personal protective equipment

Wear dust goggles. Eye/face protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other No special protective equipment required.

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

Exposure Limit.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

material. considerations

9. Physical and chemical properties

Appearance The product consists of bentonite granules between geotextile layers

Physical state

Form Solid. Mat or Fabric

Color Various. Odor None.

Odor threshold Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling

range

Not available.

Flash point Not flammable **Evaporation rate** Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not explosive

(%)

Flammability limit - upper

(%)

Not explosive

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) 0 hPa estimated Vapor pressure

Vapor density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) Negligible Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature**

Material name: VOLTEX® SDS US **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Percent volatile 0 % estimated

10. Stability and reactivity

ReactivityThe 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. Hazardous polymerization does not occur.

Conditions to avoid None known. Contact with incompatible materials.

Incompatible materials None known.

Hazardous decomposition None known.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

Skin contact Not available.

Eye contactDirect contact with eyes may cause temporary irritation.

ptoms related to the

Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Toxicological data

Impurities Species Test Results

QUARTZ (CAS 14808-60-7)

Acute Oral

LD50 Rat 500 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

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

Respiratory or skin sensitization

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.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity 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 respirable dust and respirable

crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - Not classified.

single exposure

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

Specific target organ toxicity repeated exposure

Not classified.

Aspiration hazard

Not available.

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.)

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12. Ecological information

Ecotoxicity

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

and aquatic systems.

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 in

accordance with all applicable 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).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not available.

the IBC Code

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 Hazardous Substance List (40 CFR 302.4)

Not listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Material name: VOLTEX® SDS US

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Nο

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Administration (FDA)

Total food additive
Indirect food additive
GRAS food additive

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

QUARTZ (CAS 14808-60-7)

US. Massachusetts RTK - Substance List

QUARTZ (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

QUARTZ (CAS 14808-60-7) Listed: October 1, 1988

International Inventories

| 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 Existing Commercial Chemical Substances (EINECS) | Yes |
| 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 | No |
| 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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the government.

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16. Other information, including date of preparation or last revision

Issue date08-May-2014Revision date08-May-2014

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Further information

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

NFPA ratings

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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.

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Revision Information

HazReg Data: Europe - EU

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