

SAFETY DATA SHEET

1. Identification

Product identifier VOLTEX® DS

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Not available.

Restrictions on use Not available.

Details of manufacturer or importer

Manufacturer

Company name CETCO Australia, an MTI Company

Address 50 Crowle Street

North Geelong, VIC 3215

Australia

Telephone General Information +61 03 5272 1090

Website http://www.volclay.com.au/
E-mail safetydata@mineralstech.com

Emergency phone number

Asia Pacific 1 760 476 3960 **Australia** 61 1 800 686 951

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s) None.
Signal word None.

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

Precautionary statement(s)

Prevention Keep out of reach of children. Read label before use. Obtain special instructions before use. Do

not handle until all safety precautions have been read and understood. Use personal protective

equipment as required. Not applicable.

Response If medical advice is needed, have product container or label at hand. IF exposed or concerned:

Get medical advice/attention.

Storage Store in accordance with local/regional/national/international regulation. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not

result in classification

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixture

4832

Impurities

Identity of chemical ingredients

CAS number and other Concentration of unique identifiers ingredients

Quartz 14808-60-7

Crystalline silica, quartz SILICA (QUARTZ)

Material name: VOLTEX® DS SDS AUSTRALIA

#: This substance has workplace exposure limit(s).

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

Occupational Exposure Limits for impurities are listed in Section 8. This product contains naturally **Composition comments**

occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than

5%.

4. First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. If symptoms are experienced, remove source of contamination or move victim to

fresh air. Call a physician if symptoms develop or persist.

Skin contact IF ON SKIN: Gently wash with plenty of soap and water. Get medical attention if irritation develops

and persists.

Eye contact Flush eyes immediately with large amounts of water.

Ingestion Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control centre

immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs.

Personal protection for first-aid

responders

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

Symptoms caused by exposure

Medical attention and special

treatment

Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Water Fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use any media suitable for the

surrounding fires.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Not available.

Special protective equipment and precautions for fire

fighters

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

Use water spray to cool unopened containers.

Hazchem Code

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

None.

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local

authorities should be advised if significant spillages cannot be contained.

For emergency responders

Keep unnecessary personnel away.

Environmental precautions

Methods and materials for containment and cleaning up Do not contaminate water.

This product is miscible in water. Should not be released into the environment. Avoid the generation of dusts during clean-up. Prevent product from entering drains. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Reduce airborne dust and prevent scattering by

moistening with water.

Other issues relating to spills

and releases

Clean up in accordance with all applicable regulations.

Material name: VOLTEX® DS SDS AUSTRALIA

4832

2/8

7. Handling and storage

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. 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. Use personal protective equipment as required. Avoid release to the

environment.

Conditions for safe storage, including any incompatibilities

Store locked up. No special restrictions on storage with other products. Store in original tightly closed container. Guard against dust accumulation of this material. No special storage conditions required Keep out of the reach of children.

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occ

cupational exposure limits Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)					
Impurities	Туре	Value	Form		
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.		
Australia. OELs. (Adopted Natio Environment)	nal Exposure Standards for At	mospheric Contaminants in the	e Occupational		
Impurities	Туре	Value			
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3			
US. ACGIH Threshold Limit Valu	ies				
Impurities	Туре	Value	Form		
Quartz (OAO 4 4000 CO 7)	TWA	0.025 mg/m3	Respirable fraction.		

Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
UK. EH40 Workplace Exposure Impurities	Limits (WELs) Type	Value	Form
INERT OR NUISANCE DUSTS	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Quartz	TWA	0.1 mg/m3	Respirable.

(CAS 14808-60-7)

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Impurities	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	4 mg/m3	Inhalable dust.
		0.3 mg/m3	Respirable dust.

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

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

should be monitored and controlled.

Appropriate engineering controls

If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. 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.

Individual protection measures, for example personal protective equipment (PPE)

Wear dust goggles. Eye/face protection

Skin protection

Hand protection Not normally needed. Wear appropriate chemical resistant gloves. Suitable gloves can be

recommended by the glove supplier.

Use personal protective equipment as required. Other

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

Exposure Limit.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Material name: VOLTEX® DS SDS AUSTRALIA

3/8

Hygiene measures Wash hands before breaks and immediately after handling the product. Handle in accordance with

good industrial hygiene and safety practices. Use good industrial hygiene practices in handling this

material.

9. Physical and chemical properties

Appearance The product consists of bentonite granules between geotextile layers

Physical state

Solid, Mat or Fabric **Form**

Colour Various. Odour None.

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

range

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

Flammability limit - lower

Not explosive

(%)

Flammability limit - upper

(%)

Not explosive

Explosive limit - lower (%)

Not available.

Explosive limit - upper

Not available.

(%)

0.00004 hPa estimated Vapour pressure

Not available. Vapour density Relative density Not available.

Solubility(ies)

Negligible Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity**

Other physical and chemical parameters

Explosive properties Not explosive. **Oxidising properties** Not oxidising. Percent volatile 0 % estimated VOC 0 % estimated

10. Stability and reactivity

Reactivity The 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 polymerisation does not occur.

None known. Contact with incompatible materials. Conditions to avoid

None known. Incompatible materials Hazardous decomposition None known.

products

Material name: VOLTEX® DS SDS AUSTRALIA

11. Toxicological information

Information on possible routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to exposure Direct contact with eyes may cause temporary irritation.

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/irritation None known. Mild irritant to eyes (according to the modified Kay & Calandra criteria)

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation None known. 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 May cause cancer. 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. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not

classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Quartz (CAS 14808-60-7)

A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Material name: VOLTEX® DS SDS AUSTRALIA

4832

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

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 respirable dust and respirable crystalline silica should be monitored and controlled.

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

12. Ecological information

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

organisms and aquatic systems.

Persistence and degradability Not established.

Bioaccumulative potential Not established.

Mobility in soil This product is miscible in water. Not established.

Other adverse effects Not established.

13. Disposal considerations

Disposal methodsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Material should be recycled if possible.

Residual wasteDispose 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 packagingSince emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADG

Not regulated as dangerous goods.

RID

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 the IBC Code

Not available.

15. Regulatory information

Safety, health and environmental regulations

National regulations This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Material name: VOLTEX® DS SDS AUSTRALIA

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Quartz (CAS 14808-60-7)

100000 - 999999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

INERT OR NUISANCE DUSTS (CAS SEQ250)

2000 TONNES/YR Threshold Category: 2B 400 TONNES/YR Threshold Category: 2A

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Restricted Carcinogenic Substances

Not regulated.

International regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Material name: VOLTEX® DS SDS AUSTRALIA 7/8

4832

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Country(s) or region

Not applicable.

International Inventories

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
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No

^{*}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 governing country(s).

16. Other information

Further information

United States & Puerto Rico

23-March-2018 Issue date **Revision date** 23-March-2018

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

information or product specification. HMIS® is a registered trade and service mark of the NPCA.

EPA: AQUIRE database References

NLM: Hazardous Substances Data Base

Toxic Substances Control Act (TSCA) Inventory

Inventory name

US. IARC Monographs on Occupational Exposures to Chemical Agents

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. CETCO Australia, an MTI Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Product and Company Identification: Alternate Trade Names **Revision information**

Material name: VOLTEX® DS SDS AUSTRALIA

On inventory (yes/no)*

Yes