# SAFETY DATA SHEET



## 1. Identification

**Product identifier GROUNDING GROUT™** 

Other means of identification None.

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

CETCO, an MTI Company Company name 2870 Forbs Avenue **Address** 

Hoffman Estates, IL 60192

**United States** 

Telephone General Information 800 527-9948

Website http://www.cetco.com/

E-mail safetydata@mineralstech.com

Emergency 1.866.519.4752/1 760 476 3962 **Emergency phone number** 

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

# 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2B

> Carcinogenicity Category 1A Specific target organ toxicity, repeated Category 1

exposure

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Causes eye irritation. May cause cancer. Causes damage to organs through prolonged or **Hazard statement** 

repeated exposure.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

> and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective

clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye

irritation persists: Get medical advice/attention.

Store locked up. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: GROUNDING GROUT™ SDS US 1/8 11.91% of the mixture consists of component(s) of unknown acute oral toxicity. 20.66% of the mixture consists of component(s) of unknown acute dermal toxicity. 20.66% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 20.66% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	5 - < 10
TRADE SECRET*		Proprietary*	5
TRADE SECRET*		Proprietary*	3.75
CRISTOBALITE		14464-46-1	1 - < 3
Other components below reportable	levels		80 - < 90

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

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

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

**General information** 

symptoms/effects, acute and delayed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

treatment needed

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.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Material name: GROUNDING GROUT™ SDS US

# Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Shovel up and place in a container for salvage or disposal. Avoid dust formation. Following product recovery, flush area with water.

Small Spills: Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container. Avoid dust formation. Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers.

For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

## 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. Do not breathe dust. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value	Form	
CRISTOBALITE (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.	
QUARTZ (SIO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.	
TRADE SECRET	PEL	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
US. OSHA Table Z-3 (29 CFR 191				
Components	Туре	Value	Form	
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable.	
		1.2 mppcf	Respirable.	
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.	
		2.4 mppcf	Respirable.	
TRADE SECRET	TWA	50 mppcf		
Constituents	Туре	Value	Form	
INERT OR NUISANCE DUSTS	TWA	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
		50 mppcf	Total dust.	
		15 mppcf	Respirable fraction.	
US. ACGIH Threshold Limit Valu	les			
Components	Туре	Value	Form	
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.	
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.	
TRADE SECRET	TWA	1 mg/m3	Respirable fraction.	

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3975 Version #: 13 Revision date: 23-July-2018 Issue date: 10-November-2014

US. NIOSH: Pocket Guide to Chemical Hazards					
Components	Туре	Value	Form		
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.	_	
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.		
TRADE SECRET	TWA	5 mg/m3	Respirable.		
		10 mg/m3	Total		

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

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

should be monitored and controlled.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves.

Other Wear suitable protective clothing. Avoid contact with the skin. Wear protective gloves.

Exposure Limit.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical stateSolid.FormSolid.

ColorNot available.OdorNot available.Odor thresholdNot available.

**pH** 7 - 9 7 - 9

Melting point/freezing point 1630.4 °F (888 °C) estimated

Initial boiling point and boiling

range

Not available.

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

Flammahility limit Jawas Non o

Flammability limit - lower

Non-explosive

(%)

Flammability limit - upper

Non-explosive

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Negligible Not available. **Partition coefficient** 

(n-octanol/water)

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

Other information

**Density** 2.67 g/cm3 estimated

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing. Percent volatile 0 % estimated 2.67 estimated Specific gravity

VOC **CARB** 

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Powerful oxidizers. Chlorine. Incompatible materials

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

No adverse effects due to skin contact are expected. Skin contact

**Eve contact** Causes eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

## Information on toxicological effects

Not known. **Acute toxicity** 

**Test Results Product Species** 

GROUNDING GROUT™

**Acute** 

Inhalation

LC50 Rat 27 mg/l/4h

Oral

LD50 Rat >= 5000 mg/kg

Components **Species Test Results** 

CRISTOBALITE (CAS 14464-46-1)

**Acute** 

Oral

LD50 Rat > 22500 mg/kg

TRADE SECRET

**Acute** 

Inhalation

LC50 Rat 0.5801 mg/l/4h

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Components Species Test Results

Oral

LD50 Rat 1800 mg/kg

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

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity 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. May cause cancer. Occupational exposure to respirable dust and

respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRISTOBALITE (CAS 14464-46-1) 1 Carcinogenic to humans. QUARTZ (SIO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CRISTOBALITE (CAS 14464-46-1) Cancer QUARTZ (SIO2) (CAS 14808-60-7) Cancer US. National Toxicology Program (NTP) Report on Carcinogens

CRISTOBALITE (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

QUARTZ (SIO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

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 of

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

**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 Since emptied con

Since 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.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

 CRISTOBALITE (CAS 14464-46-1)
 Cancer

 QUARTZ (SIO2) (CAS 14808-60-7)
 Cancer

 CRISTOBALITE (CAS 14464-46-1)
 lung effects

 QUARTZ (SIO2) (CAS 14808-60-7)
 lung effects

CRISTOBALITE (CAS 14464-46-1) immune system effects
QUARTZ (SIO2) (CAS 14808-60-7) immune system effects

CRISTOBALITE (CAS 14464-46-1) kidney effects QUARTZ (SIO2) (CAS 14808-60-7) kidney effects

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Not listed.

#### 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)

#### US state regulations

## **California Proposition 65**



**WARNING:** This product can expose you to QUARTZ (SIO2), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

QUARTZ (SIO2) (CAS 14808-60-7) Listed: October 1, 1988

SDS US

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7)

## **International Inventories**

Taiwan

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)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

<sup>\*</sup>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).

Taiwan Chemical Substance Inventory (TCSI)

Toxic Substances Control Act (TSCA) Inventory

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

Issue date10-November-2014Revision date23-July-2018

Version # 13

United States & Puerto Rico

HMIS® ratings Health: 3\*

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**Disclaimer** CETCO, 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.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

Material name: GROUNDING GROUT™

SDS US

No

No