# SAFETY DATA SHEET



### 1. Identification

**Product identifier BARITE** 

Other means of identification

**CAS** number 7727-43-7 Recommended use Not available. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

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

Hoffman Estates, IL 60192

**United States** 

800 527-9948 **Telephone** General Information

Website http://www.cetco.com/

safetydata@mineralstech.com E-mail

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** Carcinogenicity Category 1A Category 2

Specific target organ toxicity, repeated

exposure

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

Label elements



Signal word

May cause cancer. May cause damage to organs through prolonged or repeated exposure. **Hazard statement** 

**Precautionary statement** 

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

and understood. Do not breathe dust. Wear protective gloves/protective clothing/eye

protection/face protection.

If exposed or concerned: Get medical advice/attention. Response

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

### **Substances**

Chemical name	Common name and synonyms	CAS number	%
Barite		7727-43-7	100

Material name: BARITE SDS US Chemical nameCommon name and synonymsCAS number%QUARTZ (SIO2)14808-60-7<= 10</td>

\*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. 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.

**Skin contact**Get medical attention if irritation develops or persists. Wash affected area with mild soap and

water

**Eye contact**Do not rub eyes. Flush eyes immediately with large amounts of water. Get medical attention if

irritation develops or persists. Get medical attention if irritation develops and persists.

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

Most important symptoms/effects, acute and

delayed

Indication of immediate Provide general supportive remedical attention and special Symptoms may be delayed.

effects.

treatment needed

General information

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

Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic

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
Specific hazards arising from

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

Specific methods

equipment/instructions

General fire hazards

Dry chemical, CO2, water spray or regular foam. Use any media suitable for the surrounding fires.

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

During fire, gases hazardous to health may be formed.

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

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

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

No unusual fire or explosion hazards noted. This material will not burn.

#### 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 breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

## **Environmental precautions**

Do not contaminate water. 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. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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Conditions for safe storage, including any incompatibilities Store locked up. No special restrictions on storage with other products. Store in tightly closed container. Store in a well-ventilated place. No special storage conditions required. Guard against dust accumulation of this material. 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.

Material	Туре	Value	Form
Barite (CAS 7727-43-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Constituents	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 CFR 1910	.1000)		
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
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values			
Material	Туре	Value	Form
Barite (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Constituents	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Material	Туре	Value	Form
Barite (CAS 7727-43-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Constituents	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

**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

If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (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, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter. Applicable for industrial settings only.

Material name: BARITE SDS US Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Applicable for industrial settings only.

Other Use of an impervious apron is recommended. No special protective equipment required.

Applicable for industrial settings only.

**Respiratory protection**Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece,

dust and mist filter. Applicable for industrial settings only.

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

## 9. Physical and chemical properties

Appearance Powder.
Physical state Solid.
Form Powder.
Color White to tan.

Odor None.

Odor threshold

pH

Not available.

Not available.

Melting point/freezing point

2876 °F (1580 °C)

Initial boiling point and boiling

Not available.

range

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

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Non-explosive

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

**Vapor pressure** < 0.0000001 kPa (77 °F (25 °C))

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

**Decomposition temperature** > 2912 °F (> 1600 °C)

Viscosity Not available.

Other information

**Density** 4.49 g/cm3 estimated

**Explosive properties** Not explosive.

Heat of combustion (NFPA

30B)

0 kJ/g

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Molecular formulaBa.H2-O4-SMolecular weight233.39 g/molOxidizing propertiesNot oxidizing.

Specific gravity 4.49

VOC CARB

## 10. Stability and reactivity

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

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Incompatible materials None known.

Hazardous decomposition

products

Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or

low molecular weight hydrocarbons.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

Dust may irritate the eyes. Eye contact

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Dusts may irritate the respiratory tract, skin and eyes.

#### Information on toxicological effects

**Acute toxicity** Not known.

**Product** Species **Test Results** 

BARITE (CAS 7727-43-7)

Acute Oral

LD50 Rat >= 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. This product may cause slight irritation to the eyes. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization According to the classification criteria of the European Union, the product is not considered as

being a skin irritant.

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

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

## IARC Monographs. Overall Evaluation of Carcinogenicity

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) QUARTZ (SIO2) (CAS 14808-60-7)

**US. National Toxicology Program (NTP) Report on Carcinogens** 

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

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Not an aspiration hazard. **Aspiration hazard** 

**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Overexposure to dusts may result in pneumoconiosis, a lung disease due to

permanent deposition of substantial amounts of particulate matter in the lungs.

Material name: BARITE SDS US

## 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.

Product Species Test Results

Barite (CAS 7727-43-7)

Aquatic

Crustacea EC50 Tubificid worm (Tubifex tubifex) 28.61 - 38.03 mg/l, 48 hours

Fish LC50 Fish 8 - 19 g/l, 96 Hours

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. Do not allow

this material to drain into sewers/water supplies. Dispose of contents/container in accordance with

local/regional/national/international 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 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** 

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not applicable.

## 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.

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

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

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)

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

lung effects

immune system effects

kidney effects

Material name: BARITE SDS US

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No (Exempt)

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)

### 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

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

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

#### **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)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

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

Issue date 12-September-2014 **Revision date** 26-September-2018

Version # 10

United States & Puerto Rico

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

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

HMIS® ratings Health: 2\*

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 0 Instability: 0

Material name: BARITE SDS US

Yes

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).

#### 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** 

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

Material name: BARITE SDS US