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

Company name CETCO, an MTI Company Address 2870 Forbs Avenue Hoffman Estates. IL 60192

United States

Telephone General Information 800 527-9948

Website http://www.cetco.com/

E-mail safetydata@mineralstech.com

Emergency phone number Emergency 1.866.519.4752/1 760 476 3962

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be harmful if swallowed. May cause cancer. May cause damage to organs through prolonged

or repeated exposure.

Precautionary statement

Prevention Keep out of reach of children. Read label before use. Do not handle until all safety precautions

have been read and understood. Do not breathe dust. Wear protective gloves/protective

CAS number

clothing/eye protection/face protection.

Common name and evnenyme

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

Get medical advice/attention.

Storage Store away from incompatible materials. Store in accordance with local/regional/national

regulations.

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

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Substances

Chemical name

Common name and Synonyms	CAS Hullibel	/0
	7727-43-7	100
Common name and synonyms	CAS number	%
	14808-60-7	<= 10
	, ,	7727-43-7 Common name and synonyms CAS number

Material name: BARITE SDS CANADA

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DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. *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. The full text for all R- and H-phrases is displayed in section 16.

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. Get medical attention if irritation develops

and 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 Rinse mouth. If ingestion of a large amount does occur, seek medical attention. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if

you feel unwell. No special measures required.

Most important symptoms/effects, acute and delayed

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

effects.

Indication of immediate medical attention and special treatment needed

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

Symptoms may be delayed.

General information

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.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media 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.

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.

Fire fighting equipment/instructions

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

Specific methods
General fire hazards

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. Keep out of low areas. 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. 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: BARITE SDS CANADA

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. Absorb in vermiculite, dry sand or earth and place into containers. 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. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

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

Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

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. Do not taste or swallow. 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. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

Barite (CAS 7727-43-7)

116		Threshold	4 I imit	Valuas
11.7.	ACCUIN	THESHOR		values

Material	Туре	Value	Form
Barite (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Constituents	Туре	Value	Form
QUARTZ (SIO2) (CAS	TWA	0.025 mg/m3	Respirable fraction.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Material	Туре	Value	
Barite (CAS 7727-43-7)	TWA	10 mg/m3	
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total particulate.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97. as amended)

Material	Туре	Value	Form
Barite (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Manitoba OELs (Reg. 2	17/2006, The Workplace Safety	And Health Act)	
Material	Type	Value	Form

Material name: BARITE SDS CANADA

5 mg/m3

TWA

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Inhalable fraction.

Canada. Manitoba OELs (Constituents	Reg. 217/2006, The Workplace Safety And Type	Health Act) Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Ontario OELs. (C Material	ontrol of Exposure to Biological or Chemic Type	cal Agents) Value	Form
Barite (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable fraction.
0114 DT7 (0100) (040	T14/4	10 mg/m3	Inhalable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (M Material	linistry of Labor - Regulation respecting of Type	ccupational health and sa Value	fety) Form
Barite (CAS 7727-43-7)	TWA	5 mg/m3	Respirable dust.
,		10 mg/m3	Total dust.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	10 mg/m3	Total dust.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Canada. Saskatchewan O Material	ELs (Occupational Health and Safety Regu Type	ılations, 1996, Table 21) Value	
Barite (CAS 7727-43-7)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	15 minute	6 mg/m3	Respirable fraction.
		20 mg/m3	Inhalable fraction.
	8 hour	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	8 hour	0.05 mg/m3	Respirable fraction.
logical limit values	No biological exposure limits noted for the	e ingredient(s).	
oosure guidelines	Occupational exposure to nuisance dust should be monitored and controlled.	• ,	espirable crystalline silica
oropriate engineering trols	If engineering measures are not sufficien OEL, suitable respiratory protection must changes per hour) should be used. Ventil applicable, use process enclosures, local maintain airborne levels below recommer established, maintain airborne levels to a sufficient to maintain concentrations of du (OEL), suitable respiratory protection musoperation which may generate dusts, use below the recommended exposure limits.	be worn. Good general vertation rates should be match exhaust ventilation, or other ded exposure limits. If expense acceptable level. If engine ast particulates below the Ost be worn. If material is great appropriate local exhaust vertains.	ntilation (typically 10 air hed to conditions. If er engineering controls to osure limits have not been eering measures are not occupational Exposure Limit bund, cut, or used in any
=	s, such as personal protective equipment	antant in Diselve as 5 ()	aa walka ahala ahahaha
Eye/face protection	Applicable for industrial settings only. If c recommended.	ontact is likely, safety glass	es with side shields are
Skin protection Hand protection	Wear appropriate chemical resistant glov	es. Applicable for industrial	settings only.
Other		Use of an impervious apron is recommended. No special protective equipment required.	
Respiratory protection	Applicable for industrial settings only.		
Thermal hazards	Wear appropriate thermal protective cloth	aing when necessary	

Material name: BARITE SDS CANADA

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. 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 Not available.

pH Not available.

Melting point/freezing point 2876 °F (1580 °C)

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

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 density Not available.

Relative density Not 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

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

Specific gravity 4.49

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.

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

incompatible materials.

Incompatible materials None known.

Material name: BARITE SDS CANADA

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

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

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

May be harmful if swallowed. May cause discomfort if swallowed. However, ingestion is not likely Ingestion

to be a primary route of occupational exposure.

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

redness, or discomfort.

Information on toxicological effects

Acute toxicity May be harmful if swallowed.

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.

May cause cancer. Carcinogenicity

ACGIH Carcinogens

QUARTZ (SIO2) (CAS 14808-60-7) A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

QUARTZ (SIO2) (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

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.

12. Ecological information

Contains a substance which causes risk of hazardous effects to the environment. The product is **Ecotoxicity**

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.

Material name: BARITE SDS CANADA Product Species Test Results

Barite (CAS 7727-43-7)

Aquatic

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

Acute

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

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.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

Material name: BARITE SDS CANADA

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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

Philippine Inventory of Chemicals and Chemical Substances

16. Other information

Philippines

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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. HMIS® is a registered trade and service mark of the NPCA.

References ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

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, 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 Product and Company Identification: Product and Company Identification

Disposal considerations: Disposal instructions Disposal considerations: Contaminated packaging

Material name: BARITE SDS CANADA

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 governing country(s).