

# SAFETY DATA SHEET

# 1. Identification

Product identifier	PREMIUM GEL®		
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			
Company name Address	CETCO, an MTI Company 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 1.866.519.4752/1 760 476 3962		
Emergency phone number	Emergency 1.866.519.4752/1 760 476 3962 Not available.		
Supplier	NUT available.		
2. Hazard identification			
Physical hazards	Not classified.		
Health hazards	Carcinogenicity Category 1A		
	Specific target organ toxicity, repeated Category 1 exposure		
Environmental hazards	Not classified.		
Label elements	•		
Signal word	Danger		
Hazard statement	May cause cancer. Causes 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. 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.		
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 regulations.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Other hazards	None known.		
Supplemental information	% of the mixture consists of component(s) of unknown acute oral toxicity. 99.85% of the mixture consists of component(s) of unknown acute dermal toxicity. 99.85% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.		

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	mical name Common name and synonyms		%
BENTONITE		1302-78-9	99.85
Other components below repor	table levels		0.15
Constituents			
Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	<= 6
CRISTOBALITE		14464-46-1	<= 2
•	y weight unless ingredient is a gas. Gas concent	• •	me.
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	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical att	ention if irritation develops and	d persists.
Eye contact	Rinse with water. Get medical attention if irrita	tion develops and persists.	
Ingestion	Rinse mouth. Get medical attention if sympton	ns occur.	
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effect	S.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea Symptoms may be delayed.	at symptomatically. Keep victin	n under observation.
General information	IF exposed or concerned: Get medical advice/ (show the label where possible). Ensure that n involved, and take precautions to protect them	nedical personnel are aware o	
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	on dioxide (CO2).	
Unsuitable extinguishing media	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.		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.		ved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
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. Ensure adequate ventilation. Le authorities should be advised if significant spillages cannot be contained. For personal protecti see section 8 of the SDS.		uate ventilation. Local
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with w Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of SDS.		
Environmental precautions	No special environmental precautions required	d. Prevent discharge of larger	quantity to drain.
7. Handling and storage			
Precautions for safe handling	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 prolonged exposure. When using, do not eat, drink or smok Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.		es where dust is t eat, drink or smoke. Il protective hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Keep out of the materials (see Section 10 of the SDS).	ne reach of children. Store awa	ay from incompatible

Material name: PREMIUM GEL®4786Version #: 46Revision date: 22-September-2021Issue date: 05-July-2018

# 8. Exposure controls/personal protection

### **Occupational exposure limits**

US. ACGIH Threshold Limit Valu Constituents	Туре	Value	Form
CRISTOBALITE (CAS	TWA	0.025 mg/m3	Respirable fraction.
14464-46-1) QUARTZ (SIO2) (CAS	TWA	0.025 mg/m3	Respirable fraction.
14808-60-7)			
Canada. Alberta OELs (Occupat Constituents	ional Health & Safety Code, Sch Type	nedule 1, Table 2) Value	Form
NERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total particulate.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable particles.
		0.025 mg/m3	Respirable.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Canada. British Columbia OELs. Safety Regulation 296/97, as am		s for Chemical Substances, Oc	cupational Health and
Constituents	Туре	Value	Form
NERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
CRISTOBALITE (CAS 4464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Manitoba OELs (Reg. 2 <sup>.</sup>	17/2006, The Workplace Safety	And Health Act)	
Constituents	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.
Canada. Ontario OELs. (Control	of Exposure to Biological or Cl	nemical Agents)	
Constituents	Туре	Value	Form
NERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (Ministry Constituents	of Labor - Regulation respecti Type	ng occupational health and sa Value	ety) Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	10 mg/m3	Total dust.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.
QUARTZ (SIO2) (CAS	TWA	0.1 mg/m3	Respirable dust.

Constituents	ELs (Occupational Health and Safety Reg Type	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.
CRISTOBALITE (CAS 14464-46-1)	15 minute	10 mg/m3	Inhalable fraction.
	8 hour	0.05 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	8 hour	0.05 mg/m3	Respirable fraction.
logical limit values	No biological exposure limits noted for t	he ingredient(s).	
oosure guidelines	Occupational exposure to nuisance dus should be monitored and controlled.	t (total and respirable) and re	espirable crystalline silica
propriate engineering htrols	Good general ventilation should be use applicable, use process enclosures, loc maintain airborne levels below recomm established, maintain airborne levels to	al exhaust ventilation, or othe ended exposure limits. If exp	er engineering controls to
ividual protection measure	s, such as personal protective equipmen	ıt	
Eye/face protection	Applicable for industrial settings only.		
Skin protection Hand protection	Applicable for industrial settings only. W	/ear appropriate chemical res	sistant gloves.
Other	Applicable for industrial settings only. U	se of an impervious apron is	recommended.
Respiratory protection	Applicable for industrial settings only. U concentrations exceeding the Occupation		or for particulate
Thermal hazards	Wear appropriate thermal protective clo	thing, when necessary.	
neral hygiene nsiderations	Observe any medical surveillance requi measures, such as washing after handl smoking. Routinely wash work clothing	ing the material and before e	ating, drinking, and/or

### 9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not applicable.
рН	8.5 - 11
Melting point/freezing point	> 842 °F (> 450 °C) / Not applicable.
Initial boiling point and boiling	Not applicable.
range	
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable.

Vapor density	Not applicable.
Relative density	2.6 g/cm <sup>3</sup>
Solubility(ies)	
Solubility (water)	< 0.9 mg/l
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	> 932 °F (> 500 °C)
Viscosity	Not applicable.
Viscosity temperature	Not applicable.
Other information	
Bulk density	0.9 - 1.4 g/cm <sup>3</sup>
Explosive limit	Not applicable.
Explosive properties	Not explosive.
Explosivity	Not applicable.
Flame extension	Not applicable.
Flammability	Not applicable.
Flammability (flash back)	Not applicable.
Flammability (Heat of combustion)	Not applicable.
Flammability (Train fire)	Not applicable.
Flammability class	Not applicable.
Flash point class	Not flammable
Molecular formula	UVCB Substance
Molecular weight	Not applicable.
Oxidizing properties	Not oxidizing.
Percent volatile	0 %
pH in aqueous solution	8.5 - 11
Specific gravity	Not applicable.
VOC	0 %
10 Stability and reactivity	,

### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Powerful oxidizers. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

Acute toxicity	Not known.		
Product	Species	Test Results	
Bentonite			
<u>Acute</u>			
Inhalation			
Dust			
LC50	Rat	> 5.27 mg/l, 4 hr OECD 436	
Oral			
Dust			
LD50	Rat	> 2000 mg/kg OECD 425	
Constituents	Species	Test Results	
CRISTOBALITE (CAS 14464-46-	-1)		
<u>Acute</u>			
Oral			
LD50	Rat	> 22500 mg/kg	
Skin corrosion/irritation	Prolonged skin contact ma	ay cause temporary irritation.	
Serious eye damage/eye	Direct contact with eyes m	nay cause temporary irritation.	
rritation			
Respiratory or skin sensitizatio	on		
Canada - Alberta OELs: Irr	itant		
CRISTOBALITE (CAS 1	4464-46-1)	Irritant	
<b>Respiratory sensitization</b>	Not a respiratory sensitize	er.	
Skin sensitization	This product is not expect	ed to cause skin sensitization.	
Germ cell mutagenicity	No data available to indica	ate product or any components present at greater than 0.1% are	
	mutagenic or genotoxic.		
	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		
ACGIH Carcinogens		a should be monitored and controlled.	
CRISTOBALITE (CAS 1 QUARTZ (SIO2) (CAS 1		A2 Suspected human carcinogen. A2 Suspected human carcinogen.	
Canada - Alberta OELs: Ca			
CRISTOBALITE (CAS 1 QUARTZ (SIO2) (CAS 1 Canada - Manitoba OELs: (	14808-60-7)	Suspected human carcinogen. Suspected human carcinogen.	
CRISTOBALITE (CAS 1		Suspected human carcinogen.	
QUARTZ (SIO2) (CAS 1	14808-60-7)	Suspected human carcinogen.	
Canada - Quebec OELs: Ca	• • •		
CRISTOBALITE (CAS 1 QUARTZ (SIO2) (CAS 1	14808-60-7)	Detected carcinogenic effect in animals. Suspected carcinogenic effect in humans.	
	Evaluation of Carcinogeni	-	
CRISTOBALITE (CAS 1 QUARTZ (SIO2) (CAS 1 US. National Toxicology Pl		1 Carcinogenic to humans. 1 Carcinogenic to humans. rcinogens	
CRISTOBALITE (CAS 1		Known To Be Human Carcinogen.	
Matarial name: PREMILIM CEL®	1 07 70 1)		

QUARTZ (SIO2) (CAS 14	1808-60-7)	Reasonably Anticipated to be a Human Carcinogen. Known To Be Human Carcinogen.
Reproductive toxicity	This product is not expected to	o 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	Prolonged inhalation may be h exposure. Prolonged exposure	narmful. Causes damage to organs through prolonged or repeated e may cause chronic effects.

### 12. Ecological information

Ecotoxicity		s not classified as environmentally hazardo t large or frequent spills can have a harmfu		
Product		Species	Test Results	
Bentonite				
Aquatic				
Algae	EC50	Freshwater algae	> 100 mg/l, 72 hours	
Crustacea	EC50	Coon stripe shrimp (Pandalus danae)	24.8 mg/l, 96 hours	
		Daphnia	> 100 mg/l, 48 hours	
		Dungeness or edible crab (Cancer magister)	81.6 mg/l, 96 hours	
Fish	LC50	Freshwater fish	16000 mg/l, 96 hours	
		Marine water fish	2800 - 3200 mg/l, 24 hours	
Chronic				
Crustacea	LC50	Opossum shrimp (Americamysis bahia)	1000000 ppm, 96 h	
Components		Species	Test Results	
BENTONITE (CAS 1302-78-	-9)			
Aquatic				
Acute				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	19000 mg/l, 96 hours	
Persistence and degradability	No data is av	ailable on the degradability of any ingredie	nts in the mixture.	
Bioaccumulative potential				
Mobility in soil	No data avail	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 consideration	ons			
Disposal instructions	Dispose of co	ontents/container in accordance with local/r	egional/national/international regulations.	
Local disposal regulations	Dispose in ac	cordance 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<br/>productsDispose of in accordance with local regulations. Empty containers or liners may retain some<br/>product residues. This material and its container must be disposed of in a safe manner (see:<br/>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

#### 14. Transport information

#### TDG

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

disposal.

#### 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

zard criteria of the HPR and the SDS

C	Canadian regulations	This product has been classified in accordance with the haz 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 Regulati	ons		
	Not regulated.			
h	nternational regulations			
	Stockholm Convention			
	Not applicable.			
	Rotterdam Convention			
	Not applicable.			
	Kyoto protocol			
	Not applicable.			
	Montreal Protocol			
	Not applicable.			
	Basel Convention			
	Not applicable.			
h	nternational Inventories			
	Country(s) or region	Inventory name		
	Australia	Australian Inventory of Industrial Chemicals (AICIS)		
	Canada	Domestic Substances List (DSL)		
	Canada	Non-Domestic Substances List (NDSL)		
	China	Inventory of Existing Chemical Substances in China (IECSC		
	Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)		

Yes No C) Yes No European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS) Taiwan Taiwan Chemical Substance Inventory (TCSI) 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 governing country(s).

#### 16. Other information

Issue date	05-July-2018
Revision date	22-September-2021
Version #	46

On inventory (yes/no)\*

Yes

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	Product and Company Identification: Alternate Trade Names Hazard identification: Prevention Hazard identification: Storage Composition / Information on Ingredients: Disclosure Overrides Handling and storage: Precautions for safe handling Handling and storage: Conditions for safe storage, including any incompatibilities Disposal considerations: Disposal instructions HazReg Data: General GHS: Classification