SAFETY DATA SHEET



1. Identification

Product identifier PUREGOLD® 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 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

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.

Category 1

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

Material name: PUREGOLD® GEL SDS CANADA

Chemical name	Common name and synonyms	CAS number	%
BENTONITE		1302-78-9	99.85
Other components below r	eportable levels		0.15
Constituents			
Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	<= 6
CRISTOBALITE		14464-46-1	<= 2

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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.

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

Prolonged exposure may cause chronic effects.

Rinse with water. Get medical attention if irritation develops and persists. Eve contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

General information

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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

Special protective equipment

and precautions for firefighters

During fire, gases hazardous to health may be formed.

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.

General fire hazards No unusual fire or explosion hazards noted.

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. 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

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the

Environmental precautions

No special environmental precautions required. 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 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 in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

Material name: PUREGOLD® GEL SDS CANADA

8. Exposure controls/personal protection

Occupational exposure limits

14808-60-7 Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Constituents	US. ACGIH Threshold Limit Value Constituents	es Type	Value	Form
QUARTZ (SIO2) (CAS TWA 0.025 mg/m3 Respirable fraction. Respirable fraction. Canada, Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Type Value Form INERT OR NUISANCE DUSTS (CAS SE0250) TWA 3 mg/m3 Respirable particles Respirable particles DUSTS (CAS SE0250) 10 mg/m3 Total particulate Total particulate CRISTOBALITE (CAS TWA 0.025 mg/m3 Respirable particles Respirable particles 14464-46-11 0.025 mg/m3 Respirable particles Respirable particles 14808-60-7) TWA 0.025 mg/m3 Respirable particles 20UARTZ (SIO2) (CAS TWA 0.025 mg/m3 Respirable particles Respirable particles 314808-60-7) TWA 3 mg/m3 Respirable particles CALL RESPIRATION 10 mg/m3 Respirable particles TWA 3 mg/m3 Respirable particles INERT OR NUISANCE TWA 3 mg/m3 Respirable fraction. Respirable fraction. CRISTOBALITE (CAS TWA 0.025 mg/m3 Respirable fraction. Respirable fraction. CRISTOBALITE (CAS TWA 0.025 mg/m3 Respirable fraction. Respirable fraction. CALL RESPIRATION TWA 0.025 mg/m3 Respirable fraction. Respirable fraction. CALL RESPIRATION TWA 0.025 mg/m3 Respirable fraction. Respirable fraction.		TWA	0.025 mg/m3	Respirable fraction.
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Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety) Type Value Form NERT OR NUISANCE DUSTS (CAS SEQ250) CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS TWA 0.1 mg/m3 Respirable dust.	•	TWA	0.05 mg/m3	Respirable fraction.
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CRISTOBALITE (CAS TWA 0.05 mg/m3 Respirable dust. 14464-46-1) QUARTZ (SIO2) (CAS TWA 0.1 mg/m3 Respirable dust.		TWA	10 mg/m3	Total dust.
	CRISTOBALITE (CAS	TWA	0.05 mg/m3	Respirable dust.
		TWA	0.1 mg/m3	Respirable dust.

Material name: PUREGOLD® GEL SDS CANADA

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.
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	the ingredient(s).	
osure guidelines	Occupational exposure to nuisance dus should be monitored and controlled.	st (total and respirable) and re	espirable crystalline silica
oropriate engineering strols	Good general ventilation 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.		
ividual protection measures	s, such as personal protective equipme	nt	
Eye/face protection	Applicable for industrial settings only.		
Skin protection			
Hand protection	Applicable for industrial settings only. V	Vear appropriate chemical res	sistant gloves.
Other	Applicable for industrial settings only. Use of an impervious apron is recommended.		
Respiratory protection	Applicable for industrial settings only. L concentrations exceeding the Occupation		or for particulate

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

Solid. Physical state **Form** Solid.

Color Not available. Odor Not available. **Odor threshold** Not applicable.

8.5 - 11 pН

Melting point/freezing point > 842 °F (> 450 °C) / Not applicable.

Initial boiling point and boiling

range

Not applicable.

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

Flammability limit - lower

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Vapor pressure Not applicable. Vapor densityNot applicable.Relative density2.6 g/cm³

Solubility(ies)

Solubility (water) < 0.9 mg/l

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperature> 932 °F (> 500 °C)ViscosityNot applicable.Viscosity temperatureNot applicable.

Other information

Bulk density 0.9 - 1.4 g/cm3 Not applicable. **Explosive limit** Not explosive. **Explosive properties** Not applicable. **Explosivity** Flame extension Not applicable. **Flammability** Not applicable. Flammability (flash back) Not applicable. Flammability (Heat of Not applicable.

combustion)

Flammability (Train fire)

Flammability class

Flash point class

Molecular formula

Molecular weight

Oxidizing properties

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Percent volatile 0 % pH in aqueous solution 8.5 - 11

Specific gravity Not applicable.

VOC 0 %

10. Stability and reactivity

ReactivityThe 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
 Acute
 Inhalation

 Dust
 LC50
 Rat
 > 5.27 mg/l, 4 hr OECD 436

 Oral
 Dust
 LD50
 Rat
 > 2000 mg/kg OECD 425

CRISTOBALITE (CAS 14464-46-1)

Acute Oral

LD50 Rat > 22500 mg/kg

Skin corrosion/irritation Serious eye damage/eye Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

irritation

Constituents

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

CRISTOBALITE (CAS 14464-46-1) Irritant

Species

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo 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

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

inhaled from occupational sources can cause lung cancer in humans. However in making 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

Test Results

respirable crystalline silica should be monitored and controlled.

ACGIH Carcinogens

CRISTOBALITE (CAS 14464-46-1)

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

A2 Suspected human carcinogen.

A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

CRISTOBALITE (CAS 14464-46-1) Suspected human carcinogen. QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

CRISTOBALITE (CAS 14464-46-1) Suspected human carcinogen. QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

CRISTOBALITE (CAS 14464-46-1) Detected carcinogenic effect in animals.

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

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.

US. National Toxicology Program (NTP) Report on Carcinogens

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

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

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

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

Causes damage to organs through prolonged or repeated exposure.

repeated exposure

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated

exposure. 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.

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

LC50 Fish

Rainbow trout, donaldson trout (Oncorhynchus mykiss)

19000 mg/l, 96 hours

Persistence and degradability

Bioaccumulative potential

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

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

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 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

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Material name: PUREGOLD® GEL

SDS CANADA

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.

International Inventories

Country(s) or region

, ,	, ,	,	,		
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)	No		
Europe		European List of Notified Chemical Substances (ELINCS)	No		
Japan		Inventory of Existing and New Chemical Substances (ENCS)	No		
Korea		Existing Chemicals List (ECL)	Yes		
New Zeal	and	New Zealand Inventory	Yes		
Philippine	es	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes		
Taiwan		Taiwan Chemical Substance Inventory (TCSI)	Yes		
United Sta	ates & 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					

16. Other information

country(s).

Issue date 05-July-2018

Revision date 22-September-2021

Version # 46

Material name: PUREGOLD® GEL SDS CANADA

Inventory name

On inventory (yes/no)*

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

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