

#### **SAFETY DATA SHEET**

Section 1: IDENTIFICATION

**Product Name:** PREMIUM GEL®

Other Means of Identification:

None

Recommended Use: Not available

Recommended Workers (and your customers or users in the case of resale) Restrictions:

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.

Supplier: Bri-Chem Supply Ltd.

> 27075 Acheson Road Acheson, AB T7X 6B1

**Phone Number:** 780-962-9490

24 Hour Emergency: 1-866-519-4752 (US, Canada, Mexico) 1-760-476-3962

## Section 2: HAZARD(S) IDENTIFICATION

**Physical Hazards:** Not classified

**Health Hazards** Carcinogenicity Category 1A

Specific target organ

toxicity, repeated

exposure

Not classified **Environmental Hazards:** 

**OSHA Defined 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: 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

Category 1

gloves/protective clothing/eye protection/face protection.



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**Response:** 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.

Hazard(s) not Otherwise

Classified (HNOC):

None known

Supplemental Informational: 6.96% 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.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

### **Mixtures**

Chemical Name	Common Name and Synonyms	CAS Number	%
Bentonite		1302-78-9	99.85
Other components below reportable levels			0.15

#### Constituents

Chemical Name	Common Name and Synonyms	CAS Number	%
Quartz (SIO2)		14808-60-7	<= 6
Cristobalite		14464-46-1	<= 2

<sup>\*</sup>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

### **Section 4: FIRST-AID MEASURES**

**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:** Rinse with water. Get medical attention if irritation develops

and persists.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.



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Most Important Symptoms/Effects, Acute and Delayed

Indication or 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.

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing

Media:

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

Unsuitable Extinguishing

Media:

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

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 hazard

**General Fire Hazards:** No unusual fire or explosion hazards noted

Section 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 SDS.

**Environmental Precautions:** 

No special environmental precautions required. Prevent

discharge of larger quantity to drain.



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Section 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).	

## Section 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)

Constituents	Type	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
US. OSHA Table Z-3 (29 CFR 1910.	1000)		
Constituents INERT OR NUISANCE DUSTS (CAS SEQ250)	<b>Type</b> TWA	<b>Value</b> 5 mg/m3	<b>Form</b> Respirable fraction
		15 mg/m3	Total dust
		50 mppcf	Total dust
		15 mppcf	Respirable fraction
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



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### **US. ACGIH Threshold Limit Values Constituents**

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

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Constituents	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

**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 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.

Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection: Applicable for industrial settings only. Wear safety glasses with

side shields (or goggles).

**Skin Protection** 

Hand Protection: Applicable for industrial settings only. Wear appropriate

chemical resistant gloves.

Other: Applicable for industrial settings only. Use an impervious apron

is recommended.

**Respiratory Protection:** Applicable for industrial settings only. Use a particulate filter

respirator for particulate concentrations exceeding the

Occupational 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.



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#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical State:SolidForm:Solid

Color: Not available
Odor: Not available
Odor Threshold: Not applicable

**pH**: 8.5 - 11

**Melting Point/Freezing Point:** >842 °F (> 450 °C) / Not applicable

**Initial Boiling Point and** 

**Boiling Range:** 

Not applicable

Flash Point:

Evaporation Rate:

Not applicable

Not available

Flammability (solid, gas):

Non available

Upper/Lower Flammability or Explosive 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/cm³

Solubility(ies)

Solubility (Water) < 0.9 mg/l

Partition coefficient (n-

octanol/water)

Not applicable

Auto-ignition Temperature Not applicable

**Decomposition** > 932 °F (> 500 °C)

Temperature:

Viscosity: Not applicable
Viscosity Temperature: Not applicable

Other Information:



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Bulk Density: 0.9 – 1.4 g/cm³
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: CARB 0%

## Section 10: STABILITY AND REACTIVITY

**Reactivity:** This 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

#### Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation: Prolonged inhalation may be harmful



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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

Physical, Chemical and Toxicological

Characteristics:

**Information on Toxicological Effects** 

Acute Toxicity: Not known

Product Species Test Results

Bentonite

**Acute** 

Inhalation

Dust

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

Oral

Dust

LD50 Rat > 2000 mg/kg OECD 425

Constituents Species Test Results

CRISTOBALITE (CAS 14464-46-1)

**Acute** 

Oral

LD50 Rat > 22500 mg/kg

Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation

Serious Eye Damage/Eye

Irritation:

Direct contact with eyes may cause temporary irritation

Direct contact with eyes may cause temporary 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.



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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 1910.1001-1053)

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

development effects

**Specific Target Organic** 

Not classified

**Toxicity – Single Exposure:** 



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Specific Target Organic Toxicity – Repeated

Exposure:

Causes damage to organs through prolonged or 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.

**Section 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 > 100mg/l, 72 hours
Crustacea EC50 Coon stripe shrimp (Pandalus 24.8 mg/l, 96 hours

danae)

Daphnia > 100 mg/l, 48 hours

Dungeness or edible crab 81.6 mg/l, 96 hours

(Cancer magister)

Freshwater fish 16000 mg/l, 96 hours

Marine water fish 2800-3200 mg/l, 24 hours

Chronic

Fish

Crustacea LC50 Opossum shrimp (Americamysis 1000000 ppm, 96 h

bahia)

Product Species Test Results

BENTONITE (CAS 1302-78-9)

**Aquatic** 

Acute

Fish LC50 Rainbow trout, Donaldson trout 19000 mg/l, 96 hours

(Americamysis bahia)

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

**Degradability:** the mixture

LC50

**Bioaccumulative Potential** 

Mobility in Soil: No data available



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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.

Section 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 Dispose of in accordance with local regulations. Empty

Residues/Unused Products: 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.

**Section 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 and

the IBC Code:

Not applicable

## Section 15: REGULATORY INFORMATION

**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export

Notification (40 CFR 707,

Not regulated

Subpt. D):

**CERCLA Hazardous** 

Substance List (40 CFR

302.4):

Not listed

SARA 304 Emergency

release notification:

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

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



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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 No

**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

Not regulated

112 Hazardous Air Pollutants (HAPs) List:

Clean Air Act (CAA) Section

Not regulated

112(r) Accidental Release Prevention (40 CFR 68.130):

Safe Drinking Water Act

(SDWA):

Not regulated

Food and Drug

Administration (FDA):

Total food additive
Direct food additive
GRAS food additive

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))

CRISTOBALITE (CAS 14464-46-1)

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



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### **International Inventories**

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australia 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 Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory	Yes
Unites States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

### **Section 16: OTHER INFORMATION**

HMIS® Ratings: Health: 3

Flammability: 0

Physical Hazard: 0

NFPA Ratings: Health: 2

Flammability: 0

Instability: 0

Version #: 45

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).



**SAFETY DATA SHEET** 

Prepared by: Bri-Chem Supply Ltd.

Revision Date: May 17, 2024

#### **Disclaimer**

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.