

#### **SAFETY DATA SHEET**

## **Section 1: IDENTIFICATION**

Product Identified: 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.

Supplier: Bri-Chem Supply Ltd.

27075 Acheson Road Acheson, AB T7X 6B1

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

Emergency 1-866-519-4752/1-760-475-3962

**Americas:** 1-866-519-4752 (US, Canada, Mexico) 1-760-476-3962

# Section 2: HAZARD(S) IDENTIFICATION

Physical Hazards: Not classified

**Health Hazard** 

Carcinogenicity: Category 1A
Specific Target Organ Category 1

Toxicity, Repeated

**Exposure:** 

**Environmental Hazards:** Not classified

OSHA Defined Hazards: Not classified

Label Elements:

Signal Word: Danger

Hazard Statement: May cause cancer. Causes damage to organs through prolonged or

repeated exposure.



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**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

gloves/protective clothing/eye protection/face protection.

**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 Information: 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)	ojojc	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**

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.



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Eye Contact: Rinse with water. Get medical attention if irritation develops and

persists.

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

Most Important Symptoms/Effects, Acute and Delayed: 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 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 powder. Carbon 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

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

# **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.



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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.

## **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	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1)	PEL	0.05 mg/m <sup>3</sup>	Respirable dust.
QUARTZ (SIO2) (CAS 14808-60-7)	PEL	0.05 mg/m <sup>3</sup>	Respirable dust.
US. OSHA Table Z-3 (29 CFR 1910.1000)			
Constituents	Type	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	5 mg/m³	Respirable fraction.
		15 mg/m³	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m <sup>3</sup>	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	Type	Value	Form
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m <sup>3</sup>	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	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 of 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 Observe any medical surveillance requirements. Always observe considerations:

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** 

Solid **Physical State:** Form: Solid

Color: Not available Odour: Not available **Odour Threshold:** Not applicable

:Ha 8.5 - 11

**Melting Point and Freezing** 

Point:

> 842 °F (> 450 °C) / Not applicable

**Initial Boiling Point and** 

**Boiling Range:** 

Not applicable

Flash Point: Not applicable **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 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 > 932 °F (> 500 °C)

Temperature:

Viscosity: Not available **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: 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



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## Section 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

Characteristics:

Physical, Chemical and Toxicological

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

Constituents **Species Test Results** 

CRISTOBALITE (CAS 14464-46-1)

Acute

Rat > 22500 mg/kg Oral

LD50

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

Serious Eye Damage/Eye

Irritation:

Direct contact with eyes may cause temporary irritation

Respiratory or Skin Sensitization

**Respiratory Sensitization:** Not a respiratory sensitizer

Skin Sensitization: The 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 24464-46-1) 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 24464-46-1) Cancer QUARTZ (SIO2) (CAS 14808-60-7) Cancer

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

CRISTOBALITE (CAS 24464-46-1)

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

Known to be human carcinogen

Reasonably anticipated to be a human

carcinogen. Known to be human carcinogen.

**Reproductive Toxicity:** This product is not expected to cause reproductive or

developmental effects

Specific Target Organ

Toxicity - Single Exposure:

Not classified



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Specific Target Organ Toxicity – Repeated

**Exposure:** 

exposure

**Aspiration Hazard:** 

Not an aspiration hazard

**Chronic Effects:** Prolonged inhalation may be harmful. Causes damage to

organs through prolonged or repeated exposure. Prolonged

Causes damage to organs through prolonged or repeated

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 > 100 mg/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

(Cancer magister)

Fish LC50 Freshwater fish 16000 mg/l, 96 hours

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

81.6 mg/l, 96 hours

Chronic

Crustacea LC50 Opossum shrimp 1000000 ppm, 96 h

(Americamysis bahia)

Components Species Test Results

**BENTONITE (CAS 1302-78-9)** 

Aquatic

Acute

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

(Oncorhynchus mykiss)

Persistence and Degradability:

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

mixture



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Bioaccumulative **Potential Mobility in** 

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.

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 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.

**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 73/78 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, Subpt. D)

Not regulated



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CERCOA Hazardous

Not listed

Substance List (40

CFR 302.4): SARA 304 Emergency

Not regulated

Release Notification:

# OSHA Specifically Regulates Substances (29 CFR 1910.1001-1053)

CRISTOBALITE (CAS 14464-46-1) Cancer
QUARTZ (SIO2) (CAS 14808-60-7) Cancer
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 Hazardous Substance: Not listed.

SARA 311/312 Hazardous Chemical: No (Exempt)

SARA 313 (TRI Reporting): Not regulated

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Not regulated

Pollutants (HAPs) List:

Clean Air Act (CAA) Section 112(r) Accidental

Release Prevention (40 CFE 68.130):

Not regulated

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



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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)

## 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 No 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 (TCSI)	Yes
United 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**

#### 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.

**HMIS**® ratings: Health: 3\*

Flammability: 0
Physical Hazard: 0

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).



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NFPA ratings: Health: 2

Flammability: 0

Physical Hazard: 0

Prepared by: Bri-Chem Supply Ltd.

Revision Date: May 22, 2024

**Revision** Product and Company Identification: Alternate Trade Names

**Information:** Hazard(s) identification: Prevention

Composition / Information on Ingredients: Disclosure Overrides

Handling and storage: Precautions for safe handling

Handling and storage: Conditions for safe storage, including any incompatibilities