

# **Bentonite Powder**

## **SECTION 1. IDENTIFICATION**

**Product Identifier** Bentonite Powder

Other Means of

None

Identification

Product Code(s)
Product Family
Recommended Use
Restrictions on Use
BE1210, BE1215
Inorganic Solid
Industrial.
None known.

Supplier Identifier Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995

Emergency Phone No. CANUTEC CANADA, 613-996-6666, 24 Hours

**SDS No.** 0913

### **SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Classification

Skin irritation - Category 2; Serious eye damage - Category 1; Carcinogenicity - Category 2

#### **Label Elements**





Signal Word: Danger

Hazard Statement(s):

Causes skin irritation.

Causes serious eye damage.

Suspected of causing cancer.

Precautionary Statement(s):

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and skin thoroughly after handling.

Response:

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTRE or doctor.

Product Identifier: Bentonite Powder

Date of Preparation: February 14, 2017

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage:

Store in a well-ventilated place. Keep cool.

#### Other Hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Silica, quartz	14808-60-7	1 - 5	Crystallized silicon dioxide, Quartz silica
Calcium oxide	1305-78-8	0.3 - 1	Burnt lime, Calcium monoxide
Potassium oxide (K2O)	12136-45-7	0.12 - 0.7	Dipotassium monoxide
Silica, cristobalite	14464-46-1	0.1 - 1	Crystalline silicon dioxide cristobalite
Silica, tridymite	15468-32-3	0.1 - 1	Crystalline silicon dioxide, Tridimite
Titanium dioxide	13463-67-7	0.06 - 0.1	Brookite, Titanic acid anhydride, Titanium Peroxide

## **SECTION 4. FIRST-AID MEASURES**

### **First-aid Measures**

#### Inhalation

Move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

#### Skin Contact

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

## **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Contact physician immediately.

## Ingestion

Do not induce vomiting. Rinse mouth with water. Immediately call a Poison Centre or doctor.

#### **First-aid Comments**

Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

### Most Important Symptoms and Effects, Acute and Delayed

None known.

#### **Immediate Medical Attention and Special Treatment**

#### **Special Instructions**

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

Product Identifier: Bentonite Powder

Date of Preparation: February 14, 2017 Page 02 of 07

### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### **Unsuitable Extinguishing Media**

None known.

#### **Specific Hazards Arising from the Product**

Does not burn. Closed containers may rupture violently when heated releasing contents.

Not known to generate any hazardous decomposition products in a fire.

## **Special Protective Equipment and Precautions for Fire-fighters**

Approach fire from upwind to avoid hazardous vapours or gases. Fight fire from a safe distance or a protected location. Knock down vapours or gases with water fog or fine water spray. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

## Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials. Eliminate all ignition sources if safe to do so.

#### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

#### Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Flush spill area.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Wear personal protective equipment to avoid direct contact with this chemical. Avoid generating dusts. Only use where there is adequate ventilation. Prevent accidental contact with incompatible chemicals. Wash hands thoroughly after handling this material.

### **Conditions for Safe Storage**

Store in an area that is: cool, dry, well-ventilated. Store in the original, labelled, shipping container.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	ACGIH 1	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA	
Silica, quartz	0.025 mg/m3 A2		0.1 mg/m3				
Calcium oxide	2 mg/m3		5 mg/m3				
Silica, cristobalite	0.025 mg/m3 A2		10 mg/m3				
Titanium dioxide	10 mg/m3 A4		10 mg/m3				
Silica, tridymite	Not established		10 mg/m3				
Potassium oxide (K2O)	Not established		Not established				

#### **Appropriate Engineering Controls**

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety

Product Identifier: Bentonite Powder

Date of Preparation: February 14, 2017 Page 03 of 07

shower if contact or splash hazard exists.

#### **Individual Protection Measures**

### **Eye/Face Protection**

Safety glasses with side shields are recommended to prevent eye contact. Use full face-shield and chemical safety goggles when there is potential for contact. Contact lenses should not be worn when working with this material.

#### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

## **Respiratory Protection**

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

## **Basic Physical and Chemical Properties**

**Appearance** Grey powder.

**Odour** Musty

Odour Threshold Not available

**pH** 9 - 11

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/RangeNot availableFlash PointNot applicableEvaporation RateNot applicableFlammability (solid, gas)Will not burn.

**Upper/Lower Flammability or** 

**Explosive Limit** 

Not applicable (upper); Not applicable (lower)

Vapour Pressure Not applicable
Vapour Density (air = 1) Not applicable

Relative Density (water = 1) 2.65

**Solubility** Insoluble in water; Not available (in other liquids)

Partition Coefficient, Not applicable

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot applicableDecomposition TemperatureNot available

Viscosity Not available (kinematic); Not available (dynamic)

Other Information

Physical State Solid

## **SECTION 10. STABILITY AND REACTIVITY**

#### Reactivity

Not reactive under normal conditions of use.

#### **Chemical Stability**

Normally stable.

## **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

### **Conditions to Avoid**

Sunlight. Open flames, sparks, static discharge, heat and other ignition sources.

## **Incompatible Materials**

Strong acids (e.g. hydrochloric acid), water, strong oxidizing agents (e.g. perchloric acid).

### **Hazardous Decomposition Products**

Product Identifier: Bentonite Powder

Date of Preparation: February 14, 2017 Page 04 of 07

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Likely Routes of Exposure**

Inhalation; skin contact; eye contact.

### **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica, quartz	Not available	500 mg/kg (rat)	Not available
Calcium oxide	Not available	Not available	Not available
Silica, cristobalite	Not available	Not available	Not available
Titanium dioxide	> 6820 mg/m3 (rat) (4-hour exposure)	> 25000 mg/kg (rat)	> 10000 mg/kg
Silica, tridymite	Not applicable	Not available	Not available

#### Skin Corrosion/Irritation

Causes skin irritation.

## Serious Eye Damage/Irritation

Causes eye damage.

## STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause nose and throat irritation.

## Ingestion

No information was located.

### **Aspiration Hazard**

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. May cause respiratory tract injury. May cause silicosis.

## Respiratory and/or Skin Sensitization

No information was located.

## Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, quartz	Group 1	A2	Known carcinogen	
Calcium oxide	Not evaluated	Not designated	Not Listed	
Silica, cristobalite	Group 1	A2	Known carcinogen	
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed
Silica, tridymite	Not evaluated	Not Listed	Known carcinogen	
Potassium oxide (K2O)	Not Listed	Not designated	Not Listed	Not Listed

Key to Abbreviations

Group 1 = Carcinogenic to humans.

A2 = Suspected human carcinogen.

Group 2B = Possibly carcinogenic to humans.

A4 = Not classifiable as a human carcinogen.

Product Identifier: Bentonite Powder

Date of Preparation: February 14, 2017 Page 05 of 07

#### **Reproductive Toxicity**

### **Development of Offspring**

No information was located.

### **Sexual Function and Fertility**

No information was located.

#### Effects on or via Lactation

No information was located.

#### **Germ Cell Mutagenicity**

No information was located.

#### **Interactive Effects**

No information was located.

### **SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

### **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### **SECTION 15. REGULATORY INFORMATION**

#### Safety, Health and Environmental Regulations

### Canada

## Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL.

Tridymite (CAS# 15468-32-3) - Not specifically listed on the DSL.

### **USA**

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

#### **Additional USA Regulatory Lists**

Tridymite (CAS# 15468-32-3) - Not specifically listed on the TSCA Inventory.

#### **SECTION 16. OTHER INFORMATION**

SDS Prepared By Alphachem Limited Phone No. (905)-821-2995

Date of Preparation February 14, 2017

Date of Last Revision February 14, 2017

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Black

Hills Bentonite Co database.

**Disclaimer** This document is offered only as a guide in the safe handling of the above product, and has

been prepared from the best information currently available. It is not intended to be all-inclusive and the conditions of use may involve other additional considerations. Since

Product Identifier: Bentonite Powder

Date of Preparation: February 14, 2017 Page 06 of 07

