


## Section 1: Product & Company Information

**Product Name:** Bentonite - ABI High Yield  
**Chemical Family:** Natural Mineral, Montomorillonite  
**Product Use:** Oilwell Fluid Additive

### Workplace Hazardous Materials Information Systems Data (WHMIS):

	Class ID	Class	Workplace Hazard
	D-2-A	Materials Causing Other Toxic Effects - Very Toxic	Toxic effects

**Manufacturer Name:** Bri-Chem Supply Ltd.  
**Address:** #15, 53016 Hwy 60, Acheson, AB T5X 5A7 Canada  
**General Phone Number:** (780) 455-8667  
**General Fax Number:** (780) 451-4420  
**MSDS Revision Date:** March 24, 2010  
**Supercedes:** January 1, 2008  
**Prepared By:** Bri-Chem Supply Ltd.  
**Preparer's Phone:** (780) 455-8667

## Section 2: Composition/Information on Ingredients

Chemical Name	Concentration	CAS#
Crystalline Silica, Quartz	<1-2%	14808-60-7

## Section 3: Hazards Identification

**Emergency Overview:** N/A

### Routes of Entry:

**Skin Contact:** Yes  
**Skin Absorption:** No  
**Eye Contact:** No  
**Inhalation:** Yes  
**Ingestion:** No

**Potential Health Effects:**

<b>Skin:</b>	No adverse effects expected.
<b>Eye:</b>	Contact may cause mechanical irritation and possible injury.
<b>Inhalation:</b>	Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may cause irritation of the nose, throat, and respiratory passages. Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes fatal lung disease called silicosis. Symptoms include coughing, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.
<b>Ingestion:</b>	No adverse effects expected for normal, incidental ingestion.

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**Section 4: First Aid Measures**

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<b>Eye Contact:</b>	Flush eyes immediately with large amounts of water, lifting the upper and lower lids occasionally. If irritation persists or for imbedded foreign body, get immediate medical attention.
<b>Skin Contact:</b>	No first-aid should be needed as this product does not affect the skin. Wash exposed skin with soap and water before coffee breaks and at the end of the shift.
<b>Inhalation:</b>	Remove patient to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, have qualified personnel administer oxygen. Seek prompt medical attention.
<b>Ingestion:</b>	If large amounts are swallowed, seek immediate medical attention.
<b>Other First Aid:</b>	N/A

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**Section 5: Fire Fighting Measures**

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<b>Conditions Of Flammability:</b>	N/A
<b>Extinguishing Media:</b>	This product is not considered flammable, nor will it support combustion. Use extinguishing media appropriate to the surrounding fire.
<b>Flashpoint:</b>	N/A
<b>Upper Flammable Limit:</b>	N/A
<b>Lower Flammable Limit:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Protective Equipment:</b>	N/A
<b>Sensitivity To Impact or Static Discharge:</b>	N/A
<b>Hazardous Combustion Products:</b>	N/A

**Fire Comment:**

## **Section 6: Accidental Release Measures**

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**Personnel Precautions:** Use proper personal protective equipment as listed in section 8.

**Spill Cleanup Measures:** Vacuum if possible, to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water, as product will become slippery when wet.

## **Section 7: Handling & Storage**

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**Handling:** Do not breathe dust. Use normal precautions against bag breakage or spills of bulk material. Avoid creation of respirable dust. Use adequate ventilation and dust collection. Maintain and use proper, clean respiratory equipment. Launder clothing that has become dusty. Empty bags retain silica residue and must be handled in accordance with provisions of this MSDS.

**Storage:** Use good housekeeping in storage and use areas to prevent accumulation of dust in work areas.

## **Section 8: Exposure Controls, Personal Protection, Exposure Guidelines**

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**Engineering Controls:** Use local exhaust as required to maintain exposures below applicable occupational exposure limits.

**Personal Protective Equipment:** Protective gloves are recommended. Safety glasses or goggles are recommended. Protective clothing appropriate for work environment. Dusty clothing should be laundered before re-use.

**Respiratory Protection:** Use appropriate protection for respirable particulate, based on consideration of airborne workplace concentration and duration of exposure arising from intended end use.

**Exposure Limits:** Respirable Quartz 0.1 mg/m<sup>3</sup> Resirable Dust 5 mg/m<sup>3</sup> Total Dust 15 mg/m<sup>3</sup>

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Crystalline Silica, Quartz	0.05 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>

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**Section 9: Physical & Chemical Properties**

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<b>Physical State:</b>	Solid
<b>Odour And Appearance:</b>	Tan/beige to light gray powder; odourless
<b>Odour Threshold:</b>	N/A
<b>Boiling Point:</b>	N/A
<b>Evaporation Rate:</b>	N/A
<b>Melting Point:</b>	N/A
<b>Freezing Point:</b>	N/A
<b>Specific Gravity:</b>	2.5
<b>Solubility in Water:</b>	Negligible
<b>Vapour Density:</b>	N/A
<b>Vapour Pressure:</b>	N/A
<b>pH:</b>	8 - 10 (5% Aqueous Suspension)
<b>Flash Point:</b>	N/A
<b>Volatility (% by volume):</b>	N/A
<b>Coefficient of Water to Oil distribution:</b>	N/A

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**Section 10: Stability & Reactivity**

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<b>Chemical Stability:</b>	No
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions Of Chemical Instability:</b>	N/A
<b>Incompatible Substances:</b>	N/A
<b>Special Decomposition Products:</b>	N/A

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**Section 11: Toxicological Information**

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Chemical Name	LD <sub>50</sub> (Oral Rat)	LD <sub>50</sub> (Dermal Rabbit)	LC <sub>50</sub> (Inhalation Rat)
Crystalline Silica, Quartz	Not Available	Not Available	Not Available

**Effects Of Acute Exposure:** May cause delayed respiratory disease, if dust is inhaled over a prolonged period of time.

**Effects Of Chronic Exposure:** May cause delayed respiratory disease, if dust inhaled over a prolonged period of time.

**General Irritancy Of Product:** N/A

**Sensitization:** N/A

**Carcinogenicity:** N/A

**Reproductive Toxicity:** N/A

**Teratogenicity:** N/A

**Embryotoxicity:** Not Available

**Mutagenicity:** N/A

**Synergistic Products:** N/A

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**Section 12: Ecological Information**

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**Ecotoxicity:** Not Available

**Environmental Fate:** Not Available

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**Section 13: Disposal Considerations**

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**Waste Disposal:** Follow regulations for solid waste.

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**Section 14: Transport Information**

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**TDG Classification:** N/A

**DOT UN Number:** N/A


**Shipping Notes:** N/A

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**Section 15: Regulatory Information**

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**Workplace Hazardous Materials Information Systems Data (WHMIS):**

	Class ID	Class	Workplace Hazard
	D-2-A	Materials Causing Other Toxic Effects - Very Toxic	Toxic effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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**Section 16: Additional Information**

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**MSDS Revision Date:** March 24, 2010

**MSDS Revision Notes:**

**MSDS Author:** Bri-Chem Supply Ltd.

**Disclaimer:** This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.