


## Section 1: Product & Company Information

**Product Name:** Bentone 150  
**Chemical Family:** Organophilic Clay  
**Product Use:** Drilling 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:** HiTech Fluid Systems  
**Address:** #1800, 505 3rd Street SW, Calgary, AB T2P 3E6 Canada  
**General Phone Number:** (403)547-2906  
**General Fax Number:** (403)547-3129  
**MSDS Revision Date:** June 1, 2008  
**Supercedes:** June 23, 2005  
**Prepared By:** HiTech Fluid Systems  
**Preparer's Phone:** (403)547-2906

## Section 2: Composition/Information on Ingredients

Chemical Name	Concentration	CAS#
Crystalline Silica, Quartz	<1.0%	14808-60-7

## Section 3: Hazards Identification

**Emergency Overview:** No specific measures required.

### Routes of Entry:

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

**Potential Health Effects:**

<b>Skin:</b>	Cannot be absorbed through the skin. Not expected to cause irritation.
<b>Eye:</b>	May produce mechanical irritation.
<b>Inhalation:</b>	May cause slight irritation.
<b>Ingestion:</b>	Not expected to produce adverse effects.

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**Section 4: First Aid Measures**

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<b>Eye Contact:</b>	Flush eyes with running water for at least 15 minutes. If adverse symptoms develop, seek medical attention.
<b>Skin Contact:</b>	Wash with soap and water.
<b>Inhalation:</b>	Remove patient to fresh air. If breathing is difficult, administer oxygen. Administer artificial respiration if required, and seek medical attention.
<b>Ingestion:</b>	Provide symptomatic treatment and seek medical attention.
<b>Other First Aid:</b>	No specific measures required.

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**Section 5: Fire Fighting Measures**

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<b>Conditions Of Flammability:</b>	Non-flammable
<b>Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , foam, water
<b>Flashpoint:</b>	Not Applicable
<b>Upper Flammable Limit:</b>	Not Applicable
<b>Lower Flammable Limit:</b>	Not Applicable
<b>Autoignition Temperature:</b>	Not Applicable
<b>Protective Equipment:</b>	Firefighters must wear appropriate breathing apparatus and clothing.
<b>Sensitivity To Impact or Static Discharge:</b>	Not Available
<b>Hazardous Combustion Products:</b>	Avoid high dust concentrations, and ensure all equipment is properly grounded to prevent static discharges.
<b>Fire Comment:</b>	No Comment

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**Section 6: Accidental Release Measures**

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<b>Personnel Precautions:</b>	Use proper personal protective equipment as listed in section 8.
<b>Spill Cleanup Measures:</b>	Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or re-use. Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for re-use or disposal.

## Section 7: Handling & Storage

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<b>Handling:</b>	Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.
<b>Storage:</b>	Store in a cool, dry, well ventilated place. Keep container tightly closed and away from incompatible materials.

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

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<b>Engineering Controls:</b>	Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.
<b>Personal Protective Equipment:</b>	Chemical-resistant clothing is recommended, including gloves, apron, and goggles.
<b>Respiratory Protection:</b>	Recommend NIOSH-approved dust respirator.
<b>Exposure Limits:</b>	Nuisance dust : ACGIH TLV-8 hr TWA 10 mg/m <sup>3</sup> total, Quartz 0.05 mg/m <sup>3</sup> . OSHA PEL- 8 hr TWA 15 mg/m <sup>3</sup> total, 8 hr TWA 5 mg/m <sup>3</sup> respirable, Quartz 0.1 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>

## Section 9: Physical & Chemical Properties

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<b>Physical State:</b>	Solid
<b>Odour And Appearance:</b>	Off-white powder; odourless
<b>Odour Threshold:</b>	Not Available
<b>Boiling Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Melting Point:</b>	Not Available
<b>Freezing Point:</b>	Not Available
<b>Specific Gravity:</b>	1.6 g/cm <sup>3</sup>
<b>Solubility in Water:</b>	Insoluble
<b>Vapour Density:</b>	Not Available
<b>Vapour Pressure:</b>	Not Available
<b>pH:</b>	Not Available
<b>Flash Point:</b>	Not Applicable
<b>Volatility (% by volume):</b>	Not Available
<b>Coefficient of Water to Oil distribution:</b>	Not Available

## Section 10: Stability & Reactivity

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<b>Chemical Stability:</b>	Yes
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions Of Chemical Instability:</b>	
<b>Incompatible Substances:</b>	None known
<b>Special Decomposition Products:</b>	Possible emissions of carbon monoxide, carbon dioxide, ammonia

## 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

<b>Effects Of Acute Exposure:</b>	May cause slight irritations.
<b>Effects Of Chronic Exposure:</b>	As with any nuisance dust, long-term exposure to concentrations above recommended guidelines may overload the lung clearance mechanism and cause adverse lung effects and shortness of breath. Long-term exposure to products containing crystalline silica may cause silicosis.
<b>General Irritancy Of Product:</b>	None known
<b>Sensitization:</b>	Not Available
<b>Carcinogenicity:</b>	Contains crystalline silica, a known carcinogen to humans.
<b>Reproductive Toxicity:</b>	Not Applicable
<b>Teratogenicity:</b>	Not Applicable
<b>Embryotoxicity:</b>	Not Available
<b>Mutagenicity:</b>	Not Applicable
<b>Synergistic Products:</b>	Not Applicable

## Section 12: Ecological Information

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<b>Ecotoxicity:</b>	Not Available
<b>Environmental Fate:</b>	Not Available

## Section 13: Disposal Considerations

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<b>Waste Disposal:</b>	All waste should be disposed of according to federal, provincial and local regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government regulations.
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## Section 14: Transport Information


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**TDG Classification:** Not Regulated  
**DOT UN Number:** Not Regulated  
**Shipping Notes:** No special requirements

## 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.

## Section 16: Additional Information

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**MSDS Revision Date:** June 1, 2008  
**MSDS Revision Notes:**  
**MSDS Author:** HiTech Fluid Systems

**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.