

Section 1: Product & Company Information

Product Name: Bentone 910
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	<6.0 %	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:

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

Section 4: First Aid Measures

Eye Contact:	Flush eyes with running water for at least 15 minutes. If adverse symptoms develop, seek medical attention.
Skin Contact:	Wash with soap and water.
Inhalation:	Remove patient to fresh air. If breathing is difficult, administer oxygen. If not breathing, administer artificial respiration, and seek medical attention.
Ingestion:	Provide symptomatic treatment, and seek medical attention.
Other First Aid:	No specific measures required.

Section 5: Fire Fighting Measures

Conditions Of Flammability:	Non-flammable
Extinguishing Media:	Dry chemical, CO ₂ , foam, water fog
Flashpoint:	Not Applicable
Upper Flammable Limit:	Not Applicable
Lower Flammable Limit:	Not Applicable
Autoignition Temperature:	Not Applicable
Protective Equipment:	Firefighters must wear appropriate breathing apparatus and clothing.
Sensitivity To Impact or Static Discharge:	Not Available
Hazardous Combustion Products:	Avoid high dust concentrations and ensure all equipment is properly grounded to prevent static discharges.
Fire Comment:	

Section 6: Accidental Release Measures

Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Spill Cleanup Measures:	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

Handling: Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.

Storage: 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

Engineering Controls: Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.

Personal Protective Equipment: Chemical-resistant clothing is recommended, including gloves, apron, and goggles.

Respiratory Protection: Recommend NIOSH-approved dust respirator.

Exposure Limits: Not Available

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

Section 9: Physical & Chemical Properties

Physical State: Solid

Odour And Appearance: Off-white powder; odourless

Odour Threshold: Not Available

Boiling Point: Not Available

Evaporation Rate: Not Available

Melting Point: Not Available

Freezing Point: Not Available

Specific Gravity: 1.7 g/cm³

Solubility in Water: Insoluble

Vapour Density: Not Available

Vapour Pressure: Not Available

pH: Not Available

Flash Point: Not Applicable

Volatility (% by volume): Not Available

Coefficient of Water to Oil distribution: Not Available

Section 10: Stability & Reactivity

Chemical Stability:	Yes
Hazardous Polymerization:	Will not occur.
Conditions Of Chemical Instability:	
Incompatible Substances:	None Known
Special Decomposition Products:	None Known

Section 11: Toxicological Information

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

Effects Of Acute Exposure:	May cause slight irritations.
Effects Of Chronic Exposure:	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.
General Irritancy Of Product:	None known
Sensitization:	Not Available
Carcinogenicity:	Contains crystalline silica, a known carcinogen to humans.
Reproductive Toxicity:	Not Applicable
Teratogenicity:	Not Applicable
Embryotoxicity:	Not Available
Mutagenicity:	Not Applicable
Synergistic Products:	Not Applicable

Section 12: Ecological Information

Ecotoxicity:	Not Available
Environmental Fate:	Not Available

Section 13: Disposal Considerations


Waste Disposal:	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

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

Section 15: Regulatory Information

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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

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

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