


## Section 1: Product & Company Information

**Product Name:** Calcium Carbonate  
**Chemical Family:** Alkaline  
**Product Use:** Drilling Mud 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  
**Supersedes:** 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	0.1 - 1%	14808-60-7
Calcium Carbonate	60 - 100%	471-34-1

## Section 3: Hazards Identification

**Emergency Overview:** Not available

### Routes of Entry:

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

**Potential Health Effects:**

<b>Skin:</b>	Prolonged exposure may cause irritation.
<b>Eye:</b>	May cause irritation with discomfort or pain, local redness, and swelling of the conjunctiva.
<b>Inhalation:</b>	If inhaled in form of dust, may cause respiratory tract irritation or inflammation. Exposure may cause coughing and sneezing. Large amounts may cause chemical pneumonitis.
<b>Ingestion:</b>	May cause gastrointestinal irritation. If ingested in large quantities, may cause nausea, constipation and hypercalcaemia, hemorrhage.

**Section 4: First Aid Measures**

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<b>Eye Contact:</b>	Flush eyes with water for at least 15 minutes. If adverse symptoms develop, seek medical attention.
<b>Skin Contact:</b>	Carefully and gently brush the contaminated body surfaces in order to remove all traces of calcium carbonate. Use a brush, cloth, or gloves. Remove all contaminated clothing. Rinse contaminated area with lukewarm water for 15 to 20 minutes. If irritation occurs or persists, seek medical attention.
<b>Inhalation:</b>	Remove patient to fresh air. If breathing has stopped, administer artificial respiration, and seek medical attention.
<b>Ingestion:</b>	If conscious, wash out mouth with water. Drink several glasses of water to dilute. Seek medical attention.
<b>Other First Aid:</b>	Not available

**Section 5: Fire Fighting Measures**

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<b>Conditions Of Flammability:</b>	Does not burn or support combustion.
<b>Extinguishing Media:</b>	N/A
<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>	Calcium carbonate is generally non-flammable but ignites on contact with fluorine. Wear adequate personal protection to prevent contact with material or its combustion products. Firefighters must wear appropriate breathing apparatus and clothing.
<b>Sensitivity To Impact or Static Discharge:</b>	N/A
<b>Hazardous Combustion Products:</b>	N/A
<b>Fire Comment:</b>	

## Section 6: Accidental Release Measures

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- Personnel Precautions:** Use proper personal protective equipment as listed in section 8.
- Spill Cleanup Measures:** Limit access to trained personnel. Sweep up and place in container. Use industrial vacuums for large spills. Avoid raising dust. Ventilate area.

## Section 7: Handling & Storage

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- 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 acids.

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

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- Engineering Controls:** Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.
- Personal Protective Equipment:** Chemical-resistant clothing is required, including gloves, apron, and goggles. Fully cover skin.
- 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 <sup>3</sup>	0.1 mg/m <sup>3</sup>
Calcium Carbonate	10 mg/m <sup>3</sup> (Total dust)	15 mg/m <sup>3</sup> (Total dust)

## Section 9: Physical & Chemical Properties

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- Physical State:** Solid
- Odour And Appearance:** White-gray powder; odourless
- Odour Threshold:** N/A
- Boiling Point:** N/A
- Evaporation Rate:** N/A
- Melting Point:** N/A
- Freezing Point:** N/A
- Specific Gravity:** 2.65 - 2.75
- Solubility in Water:** 0.001% by weight
- Vapour Density:** N/A

<b>Vapour Pressure:</b>	N/A
<b>pH:</b>	9.4
<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>	Decomposes at 870°C to form carbon dioxide and calcium oxide.
<b>Incompatible Substances:</b>	Fluorine, magnesium, aluminum, silicon, hydrogen, mercury, aluminum sulfate, ammonium salts, acids (violent reaction with generating heat and possible explosion in confined area)
<b>Special Decomposition Products:</b>	Decomposes at 870°C to form carbon dioxide and calcium oxide.

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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
Calcium Carbonate	Not Determined	Not Determined	Not Determined

<b>Effects Of Acute Exposure:</b>	Not Available
<b>Effects Of Chronic Exposure:</b>	May cause dermatitis.
<b>General Irritancy Of Product:</b>	Eyes
<b>Sensitization:</b>	None
<b>Carcinogenicity:</b>	Contains traces of crystalline silica, a Group 1 carcinogen.
<b>Reproductive Toxicity:</b>	Not available
<b>Teratogenicity:</b>	Not available
<b>Embryotoxicity:</b>	Not Available
<b>Mutagenicity:</b>	Not available
<b>Synergistic Products:</b>	Not available

## **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.

## **Section 14: Transport Information**


**TDG Classification:** Not regulated

**DOT UN Number:** N/A

**Shipping Notes:** No special requirements

## **Section 15: Regulatory Information**

### **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:** 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.