


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:

Skin:	Prolonged exposure may cause irritation.
Eye:	May cause irritation with discomfort or pain, local redness, and swelling of the conjunctiva.
Inhalation:	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.
Ingestion:	May cause gastrointestinal irritation. If ingested in large quantities, may cause nausea, constipation and hypercalcaemia, hemorrhage.

Section 4: First Aid Measures

Eye Contact:	Flush eyes with water for at least 15 minutes. If adverse symptoms develop, seek medical attention.
Skin Contact:	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.
Inhalation:	Remove patient to fresh air. If breathing has stopped, administer artificial respiration, and seek medical attention.
Ingestion:	If conscious, wash out mouth with water. Drink several glasses of water to dilute. Seek medical attention.
Other First Aid:	Not available

Section 5: Fire Fighting Measures

Conditions Of Flammability:	Does not burn or support combustion.
Extinguishing Media:	N/A
Flashpoint:	N/A
Upper Flammable Limit:	N/A
Lower Flammable Limit:	N/A
Autoignition Temperature:	N/A
Protective Equipment:	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.
Sensitivity To Impact or Static Discharge:	N/A
Hazardous Combustion Products:	N/A
Fire Comment:	

Section 6: Accidental Release Measures

- 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

- 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

- 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 ³	0.1 mg/m ³
Calcium Carbonate	10 mg/m ³ (Total dust)	15 mg/m ³ (Total dust)

Section 9: Physical & Chemical Properties

- 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

Vapour Pressure:	N/A
pH:	9.4
Flash Point:	N/A
Volatility (% by volume):	N/A
Coefficient of Water to Oil distribution:	N/A

Section 10: Stability & Reactivity

Chemical Stability:	No
Hazardous Polymerization:	Will not occur
Conditions Of Chemical Instability:	Decomposes at 870°C to form carbon dioxide and calcium oxide.
Incompatible Substances:	Fluorine, magnesium, aluminum, silicon, hydrogen, mercury, aluminum sulfate, ammonium salts, acids (violent reaction with generating heat and possible explosion in confined area)
Special Decomposition Products:	Decomposes at 870°C to form carbon dioxide and calcium oxide.

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
Calcium Carbonate	Not Determined	Not Determined	Not Determined

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

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	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

MSDS Revision Date: June 1, 2008

MSDS Revision Notes:

MSDS Author: HiTech Fluid Systems

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