



MATERIAL SAFETY DATA SHEET

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CALCIUM CHLORIDE HT FINE

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: CALCIUM CHLORIDE HT
FINE
Chemical Family: Inorganic Calcium Salt
WHMIS Classification: D2B
Workplace Hazard: Eye irritant

Product Use: Drilling mud additive
TDG Classification: Not Regulated
Packaging Group: Not applicable
PIN: Not applicable
CAS#: 10043-52-4

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
Calcium Chloride	94-97	100043-52-4	1000 mg/kg	No information

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: Solid and concentrated liquid will cause moderate to severe eye irritation with corneal injury that may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns.

Effects of chronic exposure: Prolonged or repeated contact with the dust may irritate the skin or cause burns especially if skin is moist or if material is confined to skin. Oral toxicity considered low. Swallowing solids may cause gastrointestinal irritation or ulceration. Breathing dust may irritate the nose and throat and cause coughing and chest discomfort.

Exposure limits: Not available

Irritancy of product: Slight to severe

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Name of toxicological synergistic products: Not available



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SECTION IV: FIRST AID MEASURES

Skin contact: Wash affected area with soap and water. Remove contaminated clothing and shoes; wash before reuse. If irritation persists, or develops, obtain medical attention.

Eye contact: Immediately flush with gently flowing warm water for 15 minutes. Obtain medical attention when flushing is complete.

Inhalation: Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties, or distress, continue obtain medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water. Give 1-2 glasses of water to drink. If spontaneous vomiting occurs, keep head below hips to ensure vomitus is not aspirated, then rinse mouth and re administer water. Obtain medical attention. Never give anything by mouth to an unconscious or convulsing victim.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: Odourless white to off white pellets.

Odour threshold: Not applicable

Specific gravity (°C): 2.2

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): 1670

Freeze/Melting point (°C): Approx. 772°C

pH (%): 8-9 (35% Solution)

Co-efficient of water/oil distribution: Very soluble in water



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Use media suitable for surrounding fire and packaging.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Hydrogen chloride is a hazardous combustion product at temperatures in excess of 1600 degrees Celsius.

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: May react violently with processed lime to produce heat. Corrosive to some metals. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with sulfuric acid. Heat is generated when mixed with water. Splattering or boiling may occur.

Conditions of reactivity: Not available

Hazardous decomposition products: None



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: NIOSH/MESA approved dust mask or respirator if high dust levels expected. Recommend rubber gloves, chemical goggles and full body covering.

Specific engineering controls: Use local exhaust ventilation, process enclosure or other engineering controls to maintain dust level below TLV.

Procedures for leak/spills: Contain spill. Shovel and sweep up spill and place in a suitable and properly labeled container. Flush residue with large amounts of water. Keep contaminated water from entering sewers and water courses.

Waste disposal: Dispose/landfill in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers contain residual chemical and must be disposed of or recycled in accordance with local regulations..

Handling procedures and equipment: Wash thoroughly after handling. Avoid contact with eyes, skin, or clothing.

Storage requirements: Store in a cool, very dry place; material is hygroscopic. Keep container tightly closed when not in use. Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving. Empty packaging contains residual hazardous material and should be stored and handled as if full.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: October 6, 2009

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.