

## Section 1: Product & Company Information

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**Product Name:** Calcium Chloride Flake

**Chemical Family:** Inorganic Salt

**Product Use:** Drilling Mud Additive

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### Workplace Hazardous Materials Information Systems Data (WHMIS):

	Class ID	Class	Workplace Hazard
	D-2-B	Materials Causing Other Toxic Effects - Toxic	Skin and eye irritant

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**Manufacturer Name:** Bri-Chem Supply Ltd.

**Address:** #15, 53016 Hwy 60, Acheson, AB T5X 5A7 Canada

**General Phone Number:** (780) 455-8667

**General Fax Number:** (780) 451-4420

**MSDS Revision Date:** March 24, 2010

**Supercedes:** January 1, 2008

**Prepared By:** Bri-Chem Supply Ltd.

**Preparer's Phone:** (780) 455-8667

## Section 2: Composition/Information on Ingredients

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Chemical Name	Concentration	CAS#
Calcium Chloride	74 - 100%	10043-52-4

## Section 3: Hazards Identification

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**Emergency Overview:** Note to Physician: Treat symptomatically and supportively.

### Routes of Entry:

**Skin Contact:** Yes

**Skin Absorption:** No

**Eye Contact:** Yes

**Inhalation:** No

**Ingestion:** Yes

**Potential Health Effects:**

<b>Skin:</b>	Prolonged exposure may cause skin irritation or burns, especially if skin is moist. When dissolving, the heat produced may cause more intense effects as well as thermal burns.
<b>Eye:</b>	May cause severe irritation with corneal injury, which may be slow to heal.
<b>Inhalation:</b>	Dust may cause irritation to upper respiratory tract.
<b>Ingestion:</b>	Large ingestions may cause gastrointestinal irritation or ulcerations.

**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>	Wash with soap and water. If adverse symptoms develop, 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>	Give large amounts of water or milk to drink, if conscious. Seek medical attention.
<b>Other First Aid:</b>	Note to Physician: Treat symptomatically and supportively.

**Section 5: Fire Fighting Measures**

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<b>Conditions Of Flammability:</b>	N/A
<b>Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , foam, water spray
<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>	Do not use water directly on material. Avoid breathing corrosive vapours. Keep up-wind. Dike area to prevent run-off and contamination of water sources.
<b>Sensitivity To Impact or Static Discharge:</b>	Not available
<b>Hazardous Combustion Products:</b>	None known.
<b>Fire Comment:</b>	

## 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:** If using in a confined non-ventilated space, use of an approved dust mask is advised.
- Exposure Limits:** Nuisance dust = 10 mg/m<sup>3</sup>

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Calcium Chloride	Not Available	Not Available

## Section 9: Physical & Chemical Properties

- Physical State:** Solid
- Odour And Appearance:** White to off-white flakes; odourless
- Odour Threshold:** Not available
- Boiling Point:** N/A
- Evaporation Rate:** Not available
- Melting Point:** 187-773°C
- Freezing Point:** Not available
- Specific Gravity:** 2.15 @ 25°C
- Solubility in Water:** 40% @ 20C with evolution of heat

<b>Vapour Density:</b>	Not available
<b>Vapour Pressure:</b>	Not available
<b>pH:</b>	Not available
<b>Flash Point:</b>	N/A
<b>Volatility (% by volume):</b>	Not available
<b>Coefficient of Water to Oil distribution:</b>	Not available

## **Section 10: Stability & Reactivity**

<b>Chemical Stability:</b>	No
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions Of Chemical Instability:</b>	Reacts exothermically with water.
<b>Incompatible Substances:</b>	Strong oxidizing agents
<b>Special Decomposition Products:</b>	Does not decompose under normal conditions.

## **Section 11: Toxicological Information**

Chemical Name	LD <sub>50</sub> (Oral Rat)	LD <sub>50</sub> (Dermal Rabbit)	LC <sub>50</sub> (Inhalation Rat)
Calcium Chloride	1000 mg/kg	Not Available	Not Available

<b>Effects Of Acute Exposure:</b>	None known.
<b>Effects Of Chronic Exposure:</b>	None known.
<b>General Irritancy Of Product:</b>	Slight
<b>Sensitization:</b>	Not available
<b>Carcinogenicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not available
<b>Teratogenicity:</b>	Not available
<b>Embryotoxicity:</b>	Not Available
<b>Mutagenicity:</b>	See Registry of Toxic Effects of Chemical Substances file.
<b>Synergistic Products:</b>	Not available

## **Section 12: Ecological Information**

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

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## Section 13: Disposal Considerations

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**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

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**TDG Classification:** N/A  
**DOT UN Number:** N/A  
**Shipping Notes:** Not available

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## Section 15: Regulatory Information

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### Workplace Hazardous Materials Information Systems Data (WHMIS):

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	D-2-B	Materials Causing Other Toxic Effects - Toxic	Skin and eye irritant

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:** March 24, 2010  
**MSDS Revision Notes:**  
**MSDS Author:** Bri-Chem Supply Ltd.

**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.