

## Section 1: Product & Company Information

**Product Name:** Calcium Nitrate / Envirofloc  
**Chemical Family:** Double salt of calcium nitrate and ammonium nitrate  
**Product Use:** Drilling Mud Additive

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

Class ID	Class	Workplace Hazard
	None	Not a Controlled Product

**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#
No Hazardous Ingredients		

## Section 3: Hazards Identification

**Emergency Overview:** None known.

### Routes of Entry:

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

**Potential Health Effects:**

<b>Skin:</b>	May cause irritation, particularly if skin is wet.
<b>Eye:</b>	May cause slight irritation and/or redness.
<b>Inhalation:</b>	May cause some respiratory irritation.
<b>Ingestion:</b>	Minimal toxicity

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**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>	Delay absorption of nitrate by giving milk or activated charcoal. Seek immediate medical attention.
<b>Other First Aid:</b>	None known.

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**Section 5: Fire Fighting Measures**

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<b>Conditions Of Flammability:</b>	Low fire risk. Decomposition produces oxides of nitrogen.
<b>Extinguishing Media:</b>	Flood with water.
<b>Flashpoint:</b>	Not Available
<b>Upper Flammable Limit:</b>	Not Available
<b>Lower Flammable Limit:</b>	Not Available
<b>Autoignition Temperature:</b>	Not Available
<b>Protective Equipment:</b>	Firefighters must wear appropriate breathing apparatus and clothing.
<b>Sensitivity To Impact or Static Discharge:</b>	None known.
<b>Hazardous Combustion Products:</b>	None known.
<b>Fire Comment:</b>	

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**Section 6: Accidental Release Measures**

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<b>Personnel Precautions:</b>	Use proper personal protective equipment as listed in section 8.
<b>Spill Cleanup Measures:</b>	Vacuum or sweep, if dry. If wet, absorb with sand or dirt, re-use if possible. Flush area with water.

## 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 incompatible materials.

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

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**Engineering Controls:** None required for normal use.

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

**Respiratory Protection:** Respiratory protection is not normally required. If use creates dust formations, then NIOSH-approved respirator with dust cartridge is recommended.

**Exposure Limits:** Not Available

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
No Hazardous Ingredients		

## Section 9: Physical & Chemical Properties

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<b>Physical State:</b>	Solid
<b>Odour And Appearance:</b>	White crystals; odourless
<b>Odour Threshold:</b>	Not Available
<b>Boiling Point:</b>	Decomposes
<b>Evaporation Rate:</b>	Not Available
<b>Melting Point:</b>	110°C
<b>Freezing Point:</b>	Not Applicable
<b>Specific Gravity:</b>	1.06
<b>Solubility in Water:</b>	75% (w/w @ 25C)
<b>Vapour Density:</b>	Not Available
<b>Vapour Pressure:</b>	Not Available
<b>pH:</b>	6 (in 5% solution)
<b>Flash Point:</b>	Not Available
<b>Volatility (% by volume):</b>	Not Applicable
<b>Coefficient of Water to Oil distribution:</b>	Not Available

## Section 10: Stability & Reactivity

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<b>Chemical Stability:</b>	Yes
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions Of Chemical Instability:</b>	Not Applicable
<b>Incompatible Substances:</b>	None known.
<b>Special Decomposition Products:</b>	None known.

## 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)
No Hazardous Ingredients			

<b>Effects Of Acute Exposure:</b>	Not Available
<b>Effects Of Chronic Exposure:</b>	None known.
<b>General Irritancy Of Product:</b>	Not Available
<b>Sensitization:</b>	Not Applicable
<b>Carcinogenicity:</b>	Not Applicable
<b>Reproductive Toxicity:</b>	Not Applicable
<b>Teratogenicity:</b>	Not Applicable
<b>Embryotoxicity:</b>	Not Available
<b>Mutagenicity:</b>	Not Applicable
<b>Synergistic Products:</b>	Not Applicable

## Section 12: Ecological Information

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

## Section 13: Disposal Considerations

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<b>Waste Disposal:</b>	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:** Not regulated.  
**DOT UN Number:** Not Applicable  
**Shipping Notes:** No special requirements

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## Section 15: Regulatory Information

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

	Class ID	Class	Workplace Hazard
	None	Not a Controlled Product	

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

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