


## Section 1: Product & Company Information

**Product Name:** Encapsorfloc  
**Chemical Family:** Copolymer of acrylamide with sodium acrylate  
**Product Use:** Drilling Mud Additive

### 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

**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#
Ethoxylated Nonyl Phenol	1 - 5%	9016-45-9

## Section 3: Hazards Identification

**Emergency Overview:** None known.

### 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 irritation.
<b>Eye:</b>	Severe irritant. Can cause redness, tissue destruction, and irritation.
<b>Inhalation:</b>	Inhalation not likely
<b>Ingestion:</b>	May cause diarrhea, nausea, and abdominal cramps.

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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. NOTE: contact lenses should NOT be worn when working with this material.
<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>	If conscious, give 2 to 4 glasses of water to drink. DO NOT induce vomiting. Seek medical attention. Do not give anything by mouth to an unconscious or convulsing person.
<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>	Intense heat, open flame, other sources of ignition
<b>Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , foam, water spray
<b>Flashpoint:</b>	> 100°C (TCC)
<b>Upper Flammable Limit:</b>	Not Determined
<b>Lower Flammable Limit:</b>	Not Determined
<b>Autoignition Temperature:</b>	Not Available
<b>Protective Equipment:</b>	Firefighters must wear appropriate breathing apparatus and clothing. Slippery when wet.
<b>Sensitivity To Impact or Static Discharge:</b>	Not Determined
<b>Hazardous Combustion Products:</b>	Oxides of carbon and nitrogen, products of incomplete hydrocarbon combustion
<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:** Use appropriate safety equipment. Soak up spill with absorbent material and put in appropriate containers for disposal. Do not allow to enter waterways.

## 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:** General mechanical
- Personal Protective Equipment:** Chemical-resistant clothing is recommended, including gloves, apron, and goggles.
- Respiratory Protection:** In absence of proper ventilation, recommended NIOSH-approved dust respirator.
- Exposure Limits:** Not Determined

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Ethoxylated Nonyl Phenol		

## Section 9: Physical & Chemical Properties

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- Physical State:** Liquid
- Odour And Appearance:** Milky white liquid; slight odour
- Odour Threshold:** Not Applicable
- Boiling Point:** 205 - 225°C
- Evaporation Rate:** Not Available
- Melting Point:** Not Available
- Freezing Point:** Not Available
- Specific Gravity:** 1.05
- Solubility in Water:** Soluble
- Vapour Density:** Not Available
- Vapour Pressure:** 0.002 @ 20°C

**pH:** 6 - 8 @ 5 g/l  
**Flash Point:** > 100°C (TCC)  
**Volatility (% by volume):** Not Available  
**Coefficient of Water to Oil distribution:** Not Available

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## Section 10: Stability & Reactivity

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**Chemical Stability:** Yes  
**Hazardous Polymerization:** Will not occur.  
**Conditions Of Chemical Instability:** Not Applicable  
**Incompatible Substances:** Strong oxidizing agents, strong reducing agents  
**Special Decomposition Products:** CO<sub>x</sub>, NO<sub>x</sub>

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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)
Ethoxylated Nonyl Phenol	>3000 mg/kg	Not determined	Not Determined

**Effects Of Acute Exposure:** None known  
**Effects Of Chronic Exposure:** Skin irritation or dermatitis upon prolonged exposure  
**General Irritancy Of Product:** This product is moderately irritating to skin and eyes.  
**Sensitization:** Prolonged contact may cause sensitization.  
**Carcinogenicity:** Not Determined  
**Reproductive Toxicity:** Not Available  
**Teratogenicity:** Not Available  
**Embryotoxicity:** Not Available  
**Mutagenicity:** Not Available  
**Synergistic Products:** Not Available

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## Section 12: Ecological Information

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**Ecotoxicity:** Not Available  
**Environmental Fate:** 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:** 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):

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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:** 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.