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## Section 1: Product & Company Information

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**Product Name:** Hyperdrill AF 247 RD  
**Chemical Family:** Anionic acrylamide copolymer powder  
**Product Use:** Drilling Mud Additive

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

	Class ID	Class	Workplace Hazard
	None	Not a Controlled Product	

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**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

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## Section 2: Composition/Information on Ingredients

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Chemical Name	Concentration	CAS#
No Hazardous Ingredients		

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## Section 3: Hazards Identification

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**Emergency Overview:** Not Available

### Routes of Entry:

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

**Potential Health Effects:**

<b>Skin:</b>	Prolonged exposure may cause irritation.
<b>Eye:</b>	May cause slight irritation and/or redness.
<b>Inhalation:</b>	May cause respiratory irritation.
<b>Ingestion:</b>	May cause nausea and vomiting.

**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>	No hazards that require special first-aid measures.
<b>Other First Aid:</b>	Not Available

**Section 5: Fire Fighting Measures**

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<b>Conditions Of Flammability:</b>	Very low risk
<b>Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , foam, water spray, 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. Slippery when wet.
<b>Sensitivity To Impact or Static Discharge:</b>	Dust in sufficient concentration can result in an explosive mixture in air.
<b>Hazardous Combustion Products:</b>	CO <sub>x</sub> , NO <sub>x</sub> , various hydrocarbons, and/or ammonia, which may be irritating or harmful.
<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:** Sweep up and collect dry product. Absorb wet product with an inert material. Wash area with water. Do not allow water to enter waterways. Product becomes very slippery when wet.

## Section 7: Handling & Storage

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- Handling:** Product becomes very slippery when wet. Avoid using water to clean up large spills.
- 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:** Work in well ventilated areas.
- 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:** Acute Oral Toxicity: LD<sub>50</sub>: >5000mg/kg

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

## Section 9: Physical & Chemical Properties

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- Physical State:** Solid
- Odour And Appearance:** Off-white granular powder; odourless
- Odour Threshold:** Not Available
- Boiling Point:** Not Available
- Evaporation Rate:** Not Available
- Melting Point:** Not Available
- Freezing Point:** Not Available
- Specific Gravity:** Not Available
- Solubility in Water:** Soluble
- Vapour Density:** Not Available

<b>Vapour Pressure:</b>	Not Available
<b>pH:</b>	Not Available
<b>Flash Point:</b>	Not Available
<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>	Yes
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions Of Chemical Instability:</b>	Not Applicable
<b>Incompatible Substances:</b>	Strong oxidants may cause exothermic reactions.
<b>Special Decomposition Products:</b>	Thermal decomposition may produce carbon oxides and nitrogen oxides (NO <sub>x</sub> ).

## Section 11: Toxicological Information

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>	Tests show this product to be non-sensitizing.
<b>Carcinogenicity:</b>	Not considered to be a carcinogen by IARC, NTP, and OSHA.
<b>Reproductive Toxicity:</b>	Not Available
<b>Teratogenicity:</b>	Not Available
<b>Embryotoxicity:</b>	Not Available
<b>Mutagenicity:</b>	Not Available
<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:** 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

**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.