

Section 1: Product & Company Information

Product Name: Drispac
Chemical Family: Cellulosic polymer
Product Use: Drilling Fluid 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:

| | |
|--------------------|---|
| Skin: | Prolonged contact with moistened product may cause slight irritation. |
| Eye: | Dust may produce mechanical irritation. |
| Inhalation: | Non-irritating to mucous membranes, however breathing high concentrations of the dust may cause mechanical irritation of the nose, throat, and upper respiratory tract. |
| Ingestion: | Passes through relatively inert. May cause gastrointestinal upset. |

Section 4: First Aid Measures

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|-------------------------|---|
| Eye Contact: | Flush eyes with running water. If irritation or adverse symptoms develop, seek medical attention. |
| Skin Contact: | Wash skin with soap and water. If irritation or adverse symptoms develop, seek medical attention. |
| Inhalation: | Remove from exposure. If illness or adverse symptoms develop, seek medical attention. |
| Ingestion: | If illness or adverse symptoms develop, seek medical attention. |
| Other First Aid: | None known. |

Section 5: Fire Fighting Measures

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|---|---|
| Conditions Of Flammability: | None |
| Extinguishing Media: | Dry chemical, CO ₂ , foam, water fog |
| Flashpoint: | Not Applicable |
| Upper Flammable Limit: | Not Determined |
| Lower Flammable Limit: | Not Determined |
| Autoignition Temperature: | Not Applicable |
| Protective Equipment: | Firefighters must wear appropriate breathing apparatus and clothing. |
| Sensitivity To Impact or Static Discharge: | Dust in sufficient concentration can result in an explosive mixture in air. |
| Hazardous Combustion Products: | Carbon oxides and various hydrocarbons formed when burned. |
| Fire Comment: | |

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 reduce potential exposure.
- Personal Protective Equipment:** Chemical-resistant clothing is recommended, including gloves, apron, and goggles.
- Respiratory Protection:** Recommend NIOSH-approved dust respirator.
- Exposure Limits:** Not Determined

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

Section 9: Physical & Chemical Properties

- Physical State:** Solid
- Odour And Appearance:** Light powder; odourless
- Odour Threshold:** Not Applicable
- Boiling Point:** Not Applicable
- Evaporation Rate:** Not Applicable
- Melting Point:** Not Applicable
- Freezing Point:** Not Applicable
- Specific Gravity:** Not Available
- Solubility in Water:** Complete

| | |
|--|----------------|
| Vapour Density: | Not Applicable |
| Vapour Pressure: | Not Applicable |
| pH: | Not Applicable |
| Flash Point: | Not Applicable |
| Volatility (% by volume): | Negligible |
| Coefficient of Water to Oil distribution: | Not Applicable |

Section 10: Stability & Reactivity

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|--|-----------------|
| Chemical Stability: | Yes |
| Hazardous Polymerization: | Will not occur. |
| Conditions Of Chemical Instability: | |
| Incompatible Substances: | Not Determined |
| Special Decomposition Products: | Not Determined |

Section 11: Toxicological Information

| Chemical Name | LD ₅₀ (Oral Rat) | LD ₅₀ (Dermal Rabbit) | LC ₅₀ (Inhalation Rat) |
|--------------------------|-----------------------------|----------------------------------|-----------------------------------|
| No Hazardous Ingredients | | | |

| | |
|--------------------------------------|---|
| Effects Of Acute Exposure: | Not Determined |
| Effects Of Chronic Exposure: | No adverse effects have been noted in chronic feeding studies using lab animals and humans. |
| General Irritancy Of Product: | None known |
| Sensitization: | Not Determined |
| Carcinogenicity: | Not Applicable |
| Reproductive Toxicity: | Not Applicable |
| Teratogenicity: | Not Applicable |
| Embryotoxicity: | Not Available |
| Mutagenicity: | Not Applicable |
| Synergistic Products: | Not Applicable |

Section 12: Ecological Information

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|----------------------------|---------------|
| Ecotoxicity: | Not Available |
| Environmental Fate: | Not Available |

Section 13: Disposal Considerations

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.

Section 14: Transport Information

TDG Classification: Not Regulated
DOT UN Number: Not Regulated
Shipping Notes: No special requirements

Section 15: Regulatory Information

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.

Section 16: Additional Information

MSDS Revision Date: June 1, 2008
MSDS Revision Notes:
MSDS Author: HiTech Fluid Systems

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