


Section 1: Product & Company Information

Product Name: Mud Flocc
Chemical Family: Anionic water soluble polymer
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: Not Available

Routes of Entry:

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

Potential Health Effects:

Skin:	Prolonged exposure may cause irritation.
Eye:	May cause slight irritation and/or redness.
Inhalation:	May cause sneezing, some slight irritation.
Ingestion:	No adverse effects expected. Product may swell in throat, causing choking.

Section 4: First Aid Measures

Eye Contact:	Flush eyes with water for at least 15 minutes. If adverse symptoms develop, seek medical attention.
Skin Contact:	Wash with soap and water. If adverse symptoms develop, seek medical attention.
Inhalation:	Remove patient to fresh air. If breathing has stopped, administer artificial respiration, and seek immediate medical attention.
Ingestion:	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.
Other First Aid:	Not Available

Section 5: Fire Fighting Measures

Conditions Of Flammability:	Requires a source of ignition.
Extinguishing Media:	Dry chemical, carbon dioxide, foam, water
Flashpoint:	Not Available
Upper Flammable Limit:	Not Available
Lower Flammable Limit:	Not Available
Autoignition Temperature:	Not Available
Protective Equipment:	Firefighters must wear appropriate breathing apparatus and clothing. Extremely slippery when wet.
Sensitivity To Impact or Static Discharge:	Not Applicable
Hazardous Combustion Products:	Oxides of carbon and nitrogen
Fire Comment:	

Section 6: Accidental Release Measures

- Personnel Precautions:** Use proper personal protective equipment as listed in section 8.
- Spill Cleanup Measures:** Do not flush with water. Clean up promptly by sweeping or vacuuming. Keep in suitable containers for disposal.

Section 7: Handling & Storage

- Handling:** Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.
- Storage:** Keep in a cool dry place (0 - 30°C).

Section 8: Exposure Controls, Personal Protection, Exposure Guidelines

- Engineering Controls:** None required for normal use.
- 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
No Hazardous Ingredients		

Section 9: Physical & Chemical Properties

- Physical State:** Solid
- Odour And Appearance:** White, granular; little odour
- Odour Threshold:** Not Determined
- Boiling Point:** Not Applicable
- Evaporation Rate:** Not Available
- Melting Point:** Not Applicable
- Freezing Point:** Not Applicable
- Specific Gravity:** Not Determined
- Solubility in Water:** Forms a gel
- Vapour Density:** Not Determined
- Vapour Pressure:** Not Determined
- pH:** 4 - 9 @ 5 g/L

Flash Point: Not Available

Volatility (% by volume): Not Applicable

Coefficient of Water to Oil distribution: Not Available

Section 10: Stability & Reactivity

Chemical Stability: Yes

Hazardous Polymerization: Will not occur.

Conditions Of Chemical Instability: Not Applicable

Incompatible Substances: Avoid strong oxidizing and reducing agents.

Special Decomposition Products: NO_x, CO_x

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: Not Determined

General Irritancy Of Product: Mildly irritating to eyes.

Sensitization: Not Determined

Carcinogenicity: Not Determined

Reproductive Toxicity: Not Determined

Teratogenicity: Not Determined

Embryotoxicity: Not Available

Mutagenicity: Not Determined

Synergistic Products: Not Determined

Section 12: Ecological Information

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 Applicable
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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