

## Section 1: Product & Company Information

**Product Name:** Alkapam A1103D  
**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:**

<b>Skin:</b>	Prolonged exposure may cause irritation.
<b>Eye:</b>	May cause slight irritation and/or redness.
<b>Inhalation:</b>	May cause sneezing and irritation of the nose and throat.
<b>Ingestion:</b>	No adverse effects expected. Product may swell in throat causing choking.

**Section 4: First Aid Measures**

---

<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>	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>	Not Available

**Section 5: Fire Fighting Measures**

---

<b>Conditions Of Flammability:</b>	Not Available
<b>Extinguishing Media:</b>	Not determined.
<b>Flashpoint:</b>	Not Applicable
<b>Upper Flammable Limit:</b>	Not Applicable
<b>Lower Flammable Limit:</b>	Not Applicable
<b>Autoignition Temperature:</b>	Not Applicable
<b>Protective Equipment:</b>	Firefighters must wear appropriate breathing apparatus and clothing.
<b>Sensitivity To Impact or Static Discharge:</b>	Not Available
<b>Hazardous Combustion Products:</b>	CO <sub>x</sub> , NO <sub>x</sub>
<b>Fire Comment:</b>	

## 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. After cleaning, flush away traces with water.

## 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:** 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 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; odourless
- Odour Threshold:** Not Available
- Boiling Point:** Not Applicable
- Evaporation Rate:** Not determined.
- Melting Point:** Not determined.
- Freezing Point:** Not Applicable
- Specific Gravity:** Not Available
- Solubility in Water:** Forms a gel
- Vapour Density:** Not determined.

<b>Vapour Pressure:</b>	Not determined.
<b>pH:</b>	4 - 6 @ 5 g/L
<b>Flash Point:</b>	Not Applicable
<b>Volatility (% by volume):</b>	Not determined.
<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>	Oxidizing agents
<b>Special Decomposition Products:</b>	NO <sub>x</sub> , CO <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 determined.
<b>Effects Of Chronic Exposure:</b>	Not determined.
<b>General Irritancy Of Product:</b>	Mildly irritating to eyes
<b>Sensitization:</b>	May cause sensitization in some individuals.
<b>Carcinogenicity:</b>	Not determined.
<b>Reproductive Toxicity:</b>	Not determined.
<b>Teratogenicity:</b>	Not determined.
<b>Embryotoxicity:</b>	Not Available
<b>Mutagenicity:</b>	Not determined.
<b>Synergistic Products:</b>	Not determined.

---

## Section 12: Ecological Information

---

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

**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.