

## Section 1: Product & Company Information

**Product Name:** TKPP  
**Chemical Family:** Potassiumpyrophosphate  
**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#
Tetrapotassiumpyrophosphate	100%	7320-34-5

## Section 3: Hazards Identification

**Emergency Overview:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### Routes of Entry:

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

**Potential Health Effects:**

<b>Skin:</b>	Causes skin irritation, sharp pain.
<b>Eye:</b>	Causes eye irritatoin, possible blurred vision.
<b>Inhalation:</b>	Dusts may be irritating to nose, throat, and respiratory tract. May cause shortness of breath.
<b>Ingestion:</b>	May cause stomach-ache, sickness, and vomiting.

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**Section 4: First Aid Measures**

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<b>Eye Contact:</b>	Flush eyes with running 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>	Move patient to fresh air. Seek medical attention if difficulty in breathing/symptoms of irritation persists.
<b>Ingestion:</b>	If patient is conscious and alert, give two or more glasses of water to drink. Seek medical attention.
<b>Other First Aid:</b>	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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**Section 5: Fire Fighting Measures**

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<b>Conditions Of Flammability:</b>	Non-flammable
<b>Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , foam, water
<b>Flashpoint:</b>	N/A
<b>Upper Flammable Limit:</b>	N/A
<b>Lower Flammable Limit:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Protective Equipment:</b>	Firefighters must wear appropriate breathing apparatus and clothing.
<b>Sensitivity To Impact or Static Discharge:</b>	Not known
<b>Hazardous Combustion Products:</b>	None known.
<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. 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

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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:** 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, recommend NIOSH-approved dust respirator.
- Exposure Limits:** LD<sub>50</sub> 2000 mg/kg (mouse)

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Tetrapotassiumpyrophosphate		

## Section 9: Physical & Chemical Properties

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- Physical State:** Solid
- Odour And Appearance:** White powder; odourless
- Odour Threshold:** Not available
- Boiling Point:** N/A
- Evaporation Rate:** Not available
- Melting Point:** Decomposes @ 850°C
- Freezing Point:** Not available
- Specific Gravity:** Not available
- Solubility in Water:** @25C 1100 g/l
- Vapour Density:** Not available

<b>Vapour Pressure:</b>	Not available
<b>pH:</b>	10 - 11
<b>Flash Point:</b>	N/A
<b>Volatility (% by volume):</b>	Not available
<b>Coefficient of Water to Oil distribution:</b>	Not available

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## Section 10: Stability & Reactivity

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<b>Chemical Stability:</b>	Yes
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions Of Chemical Instability:</b>	
<b>Incompatible Substances:</b>	None known.
<b>Special Decomposition Products:</b>	None known.

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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)
Tetrapotassiumpyrophosphate	>2000 mg/kg		

<b>Effects Of Acute Exposure:</b>	Not known
<b>Effects Of Chronic Exposure:</b>	N/A
<b>General Irritancy Of Product:</b>	Mildly acidic
<b>Sensitization:</b>	N/A
<b>Carcinogenicity:</b>	N/A
<b>Reproductive Toxicity:</b>	N/A
<b>Teratogenicity:</b>	N/A
<b>Embryotoxicity:</b>	Not Available
<b>Mutagenicity:</b>	N/A
<b>Synergistic Products:</b>	N/A

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## Section 12: Ecological Information

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<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 regulated  
**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.