

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:

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

Section 4: First Aid Measures

Eye Contact:	Flush eyes with running 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:	Move patient to fresh air. Seek medical attention if difficulty in breathing/symptoms of irritation persists.
Ingestion:	If patient is conscious and alert, give two or more glasses of water to drink. Seek medical attention.
Other First Aid:	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.

Section 5: Fire Fighting Measures

Conditions Of Flammability:	Non-flammable
Extinguishing Media:	Dry chemical, CO ₂ , foam, water
Flashpoint:	N/A
Upper Flammable Limit:	N/A
Lower Flammable Limit:	N/A
Autoignition Temperature:	N/A
Protective Equipment:	Firefighters must wear appropriate breathing apparatus and clothing.
Sensitivity To Impact or Static Discharge:	Not known
Hazardous Combustion Products:	None known.
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:** 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:** LD₅₀ 2000 mg/kg (mouse)

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Tetrapotassiumpyrophosphate		

Section 9: Physical & Chemical Properties

- 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

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

Section 10: Stability & Reactivity

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

Section 11: Toxicological Information

Chemical Name	LD ₅₀ (Oral Rat)	LD ₅₀ (Dermal Rabbit)	LC ₅₀ (Inhalation Rat)
Tetrapotassiumpyrophosphate	>2000 mg/kg		

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

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 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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