

Section 1: Product & Company Information

Product Name: Potassium Sulphate
Chemical Family: Sulphate of Potash
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#
Potassium Sulphate	99.6 - 99.9%	7778-80-5

Section 3: Hazards Identification

Emergency Overview: None required.

Routes of Entry:

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

Potential Health Effects:

Skin:	Minor irritation
Eye:	Minor irritation
Inhalation:	Minor irritation
Ingestion:	Minor irritation

Section 4: First Aid Measures

Eye Contact:	Flush with running water for 15 minutes. Seek medical attention.
Skin Contact:	Flush with water. Seek medical attention if rash develops.
Inhalation:	Seek medical attention if symptoms persist.
Ingestion:	Seek medical attention. Ingestion of large amounts usually causes purging of the stomach by vomiting.
Other First Aid:	None required.

Section 5: Fire Fighting Measures

Conditions Of Flammability:	None
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:	N/A
Hazardous Combustion Products:	N/A
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: Keep dry. Avoid contact with carbon steel and aluminum.

Section 8: Exposure Controls, Personal Protection, Exposure Guidelines

Engineering Controls: Provide mechanical ventilation to prevent dust concentrations, and to 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: Treat as nuisance dust.

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Potassium Sulphate	Not Available	Not Available

Section 9: Physical & Chemical Properties

Physical State:	Solid
Odour And Appearance:	Off-white to beige colour; odourless
Odour Threshold:	None
Boiling Point:	1689°C
Evaporation Rate:	Not available
Melting Point:	Not available
Freezing Point:	Not available
Specific Gravity:	2.66
Solubility in Water:	12% @ 20C
Vapour Density:	N/A
Vapour Pressure:	N/A
pH:	Neutral
Flash Point:	N/A
Volatility (% by volume):	None
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
Special Decomposition Products:	None

Section 11: Toxicological Information

Chemical Name	LD ₅₀ (Oral Rat)	LD ₅₀ (Dermal Rabbit)	LC ₅₀ (Inhalation Rat)
Potassium Sulphate	Not Available	Not Available	Not Available

Effects Of Acute Exposure:	Not available
Effects Of Chronic Exposure:	May reduce lung function.
General Irritancy Of Product:	Mild
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.
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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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