

Section 1: Product & Company Information

Product Name: Shure Shale
Chemical Family: Organic Acid Salt Solution
Product Use: KCL Substitute

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: Seek medical attention if symptoms develop or persist.

Routes of Entry:

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

Potential Health Effects:

Skin:	Repeated or prolonged exposure of skin to this product may cause irritation and reddening of the skin. This product will irritate any exposed existing cuts or scrapes.
Eye:	May cause eye irritation upon direct contact with the liquid.
Inhalation:	Prolonged breathing of mists of this product can cause irritation of the mucous membranes.
Ingestion:	May cause nausea or vomiting, if ingested in large quantities (1/4 cup).

Section 4: First Aid Measures

Eye Contact:	If splashed into the eyes, flush with water for 15 minutes or until irritation subsides. Retract eyelids open. If irritation persists, call a physician.
Skin Contact:	In case of skin contact, immediately remove contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if ill-effect or irritation develops. Launder contaminated clothing before re-use.
Inhalation:	Remove patient to fresh air immediately.
Ingestion:	If patient is conscious, give at least a pint of milk or water to drink. DO NOT induce vomiting, as the risk of damage to the lungs exceeds poisoning risk. Seek immediate medical attention.
Other First Aid:	Seek medical attention if symptoms develop or persist.

Section 5: Fire Fighting Measures

Conditions Of Flammability:	N/A
Extinguishing Media:	Carbon dioxide, dry chemical, foam, water spray or fog
Flashpoint:	93.33°C
Upper Flammable Limit:	N/A
Lower Flammable Limit:	N/A
Autoignition Temperature:	N/A
Protective Equipment:	Wear suitable protection.
Sensitivity To Impact or Static Discharge:	N/A
Hazardous Combustion Products:	NO _x and HCl
Fire Comment:	Will not normally support combustion. Heat from fire may build pressure and rupture closed containers, spreading fires and increasing risk of burns/injury.

Section 6: Accidental Release Measures

- Personnel Precautions:** Use proper personal protective equipment as listed in section 8.
- Spill Cleanup Measures:** Wear rubber gloves. Contain spill, soak up and put into a container for recovery or disposal. Flush area with water. Avoid flow or concentrated product into surface waters. Dilute solutions are biodegradable. For spills on water, contain/minimize dispersion and collect.

Section 7: Handling & Storage

- Handling:** Carefully vent internal pressure before removing closure. Wear appropriate personal protection.
- Storage:** Do not store near strong oxidizing agents.

Section 8: Exposure Controls, Personal Protection, Exposure Guidelines

- Engineering Controls:** No special ventilation is recommended under normal conditions.
- Personal Protective Equipment:** Wearing gloves is recommended to avoid prolonged or repeated skin contact. Use splash goggles or faceshield when eye contact may occur. Rubber aprons are necessary to prevent contact.
- Respiratory Protection:** Use a mist-type respirator for airborne mists. Use NIOSH/MSHA-approved air purifying respirator when fighting fires.
- Exposure Limits:** N/A

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
No Hazardous Ingredients		

Section 9: Physical & Chemical Properties

- Physical State:** Liquid
- Odour And Appearance:** Colourless to light yellow; no distinguishable odour
- Odour Threshold:** Very low
- Boiling Point:** 104.44°C
- Evaporation Rate:** N/A
- Melting Point:** N/A
- Freezing Point:** -40°C
- Specific Gravity:** 1.07
- Solubility in Water:** Miscible

Vapour Density:	N/A
Vapour Pressure:	N/A
pH:	approx. 7.5
Flash Point:	93.33°C
Volatility (% by volume):	N/A
Coefficient of Water to Oil distribution:	N/A

Section 10: Stability & Reactivity

Chemical Stability:	Yes
Hazardous Polymerization:	Will not occur.
Conditions Of Chemical Instability:	
Incompatible Substances:	Avoid contact with strong oxidants.
Special Decomposition Products:	Imcomplete combustion may produce NO _x and HCl.

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:	N/A
Effects Of Chronic Exposure:	N/A
General Irritancy Of Product:	N/A
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: Incinerate or dispose concentrated product according to all regulations. Do not flush to surface waters. Recommended application rate dilute solutions are biodegradable.

Section 14: Transport Information

TDG Classification: N/A

DOT UN Number: N/A

Shipping Notes: N/A

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.