




Section 1: Product & Company Information

Product Name: Disperse
Chemical Family: Amphoteric and non-ionic surfactants in heavy distillate
Product Use: Drilling Fluid Additive

Workplace Hazardous Materials Information Systems Data (WHMIS):

	Class ID	Class	Workplace Hazard
	B-3	Combustible Liquid	Combustible Liquid
	D-1-B	Materials Causing Immediate/Serious Toxic Effects - Toxic	Immediate serious toxic effects
	D-2-B	Materials Causing Other Toxic Effects - Toxic	Skin and eye irritant

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
Supersedes: June 23, 2005
Prepared By: HiTech Fluid Systems
Preparer's Phone: (403)547-2906

Section 2: Composition/Information on Ingredients

Chemical Name	Concentration	CAS#
Petroleum Hydrocarbons	30-60 %	64741-44-2
Sorbitan Trioleate	10-30 %	26266-58-0

Section 3: Hazards Identification

Emergency Overview: Not Applicable

Routes of Entry:

Skin Contact:	Yes
Skin Absorption:	Yes
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes

Potential Health Effects:

Skin:	Severe irritant. Repeated or prolonged exposure may cause defatting, oil, acne, redness, inflammation, cracking, and possible secondary infection.
Eye:	Severe irritant. Exposure to vapours, fumes, or mists may cause irritation.
Inhalation:	Moderately toxic. May cause respiratory tract infection. May cause harmful central nervous system effects, which may include: excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death. Exposure to high concentrations of oil mists may cause oil pneumonia.
Ingestion:	May cause gastrointestinal disturbances. Symptoms may include irritation, diarrhea, and vomiting. Aspiration into lungs may cause pneumonitis. Exposure may cause nervous system symptoms, including CNS depression, similar to those listed under inhalation.

Section 4: First Aid Measures

Eye Contact:	Flush with copious amounts of warm water for 15 minutes. Seek medical attention.
Skin Contact:	Wash skin with soap and water. Launder contaminated clothing before re-use. Discard saturated leather articles.
Inhalation:	Remove patient to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Seek medical attention.
Ingestion:	DO NOT induce vomiting. If patient is conscious, give them 250ml of milk to drink. Liquid paraffin may slow gastric absorption. Seek medical attention. Do not give anything by mouth to an unconscious person.
Other First Aid:	Not Applicable

Section 5: Fire Fighting Measures

Conditions Of Flammability:	Vapour forms explosive mixture between lower and upper flammable limits.
Extinguishing Media:	Dry chemical, CO ₂ , foam, water
Flashpoint:	77°C
Upper Flammable Limit:	Not Determined
Lower Flammable Limit:	Not Determined
Autoignition Temperature:	>225°C
Protective Equipment:	Use full protective equipment and self-contained breathing apparatus. To avoid spreading, do not point solid water stream directly into burning oil.
Sensitivity To Impact or Static Discharge:	Not Applicable
Hazardous Combustion Products:	CO _x , NO _x , SO _x , smoke on combustion
Fire Comment:	

Section 6: Accidental Release Measures

Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Spill Cleanup Measures:	Use full protective equipment and breathing apparatus. Eliminate all ignition sources. Contain spill, absorb with inert absorbant, and put into approved DOT containers for disposal. Do not flush into sewer.

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: 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: Petroleum Hydrocarbon manufacture recommends: 5mg/m³ (oil mists) /8h

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Petroleum Hydrocarbons	Not Available	Not Available
Sorbitan Trioleate		

Section 9: Physical & Chemical Properties

Physical State:	Liquid
Odour And Appearance:	Translucent yellow liquid; heavy oil odour
Odour Threshold:	Not Applicable
Boiling Point:	204-371°C
Evaporation Rate:	Not Determined
Melting Point:	Not Determined
Freezing Point:	Not Determined
Specific Gravity:	0.947
Solubility in Water:	Emulsifies
Vapour Density:	<1 kPa
Vapour Pressure:	4.5
pH:	Not Determined
Flash Point:	77°C
Volatility (% by volume):	25% in 10 hours
Coefficient of Water to Oil distribution:	Not Determined

Section 10: Stability & Reactivity

Chemical Stability:	Yes
Hazardous Polymerization:	Will not occur.
Conditions Of Chemical Instability:	
Incompatible Substances:	Strong oxidizers
Special Decomposition Products:	CO _x , NO _x , SO _x , smoke on combustion

Section 11: Toxicological Information

Chemical Name	LD ₅₀ (Oral Rat)	LD ₅₀ (Dermal Rabbit)	LC ₅₀ (Inhalation Rat)
Petroleum Hydrocarbons	>5 mg/kg	Not Determined	Not Determined
Sorbitan Trioleate	Not Determined	Not Determined	Not Determined

Effects Of Acute Exposure:	Not Determined
Effects Of Chronic Exposure:	Not Determined
General Irritancy Of Product:	Not Determined
Sensitization:	Not Determined
Carcinogenicity:	Not Applicable
Reproductive Toxicity:	Not Applicable
Teratogenicity:	Not Applicable
Embryotoxicity:	Not Available
Mutagenicity:	Not Applicable
Synergistic Products:	Not Applicable

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

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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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