




Section 1: Product & Company Information

Product Name: Emulsifier Secondary
Chemical Family: Oil-wetting surfactants
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: Bri-Chem Supply Ltd.
Address: #15, 53016 Hwy 60, Acheson, AB T5X 5A7 Canada
General Phone Number: (780) 455-8667
General Fax Number: (780) 451-4420
MSDS Revision Date: January 1, 2008
Supersedes: January 1, 2005
Prepared By: Bri-Chem Supply Ltd.
Preparer's Phone: (780) 455-8667

Section 2: Composition/Information on Ingredients

Chemical Name	Concentration	CAS#
Petroleum Hydrocarbons	10-30%	64741-44-2
Fatty Acids, Diethylenetriamine	40-70%	68956-43-4
Heavy Aromatic Naptha	10-30%	64742-94-5

Section 3: Hazards Identification

Emergency Overview: No specific measures required.

Routes of Entry:

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

Potential Health Effects:

Skin:	Severe irritant. Repeated or prolonged contact may cause defatting, redness, inflammation, and irritation.
Eye:	Severe irritant. Exposures to vapours, fumes, or mists may cause irritation.
Inhalation:	May cause respiratory tract irritation. May cause central nervous system effects, such as 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 pneumonitis.
Ingestion:	May cause gastrointestinal disturbances. Symptoms may include irritation, diarrhea, and vomiting. Aspiration into lungs may cause pneumonitis. Exposure may cause nervous system effects including CNS depression, similar to those listed under inhalation.

Section 4: First Aid Measures

Eye Contact:	Flush eyes immediately after contact with running water, for at least 15 minutes. Seek medical attention.
Skin Contact:	Flush with soap and water, for 5 minutes after contact. Seek medical attention if irritation persists.
Inhalation:	Remove patient to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Seek medical attention.
Ingestion:	DO NOT induce vomiting. If conscious, administer 250ml of milk to drink. Seek medical attention. Do not give anything by mouth to an unconscious person.
Other First Aid:	No specific measures required.

Section 5: Fire Fighting Measures

Conditions Of Flammability:	Not known.
Extinguishing Media:	Dry chemical, CO ₂ , foam, water
Flashpoint:	>63°C
Upper Flammable Limit:	Not determined.
Lower Flammable Limit:	Not determined.
Autoignition Temperature:	Not determined.
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:	Small spills, soak up with absorbent material. Large spills, dike to contain spill to prevent water pollution. Extremely slippery when wet. Return recovered material to plant.

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 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: Heavy aromatic naphtha manufacturer recommends 100ppm

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Petroleum Hydrocarbons	Not Available	Not Available
Fatty Acids, Diethylenetriamine	Not Determined	Not Determined
Heavy Aromatic Naptha	Not Determined	Not Determined

Section 9: Physical & Chemical Properties

Physical State:	Liquid
Odour And Appearance:	Dark amber liquid; rancid odour
Odour Threshold:	Not determined.
Boiling Point:	Not determined.
Evaporation Rate:	Not determined.
Melting Point:	Not determined.
Freezing Point:	Not determined.
Specific Gravity:	0.96
Solubility in Water:	Insoluble
Vapour Density:	Not determined.
Vapour Pressure:	Not determined.
pH:	N/A
Flash Point:	>63°C
Volatility (% by volume):	Not determined.
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, acids
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
Fatty Acids, Diethylenetri-amine	Not Determined	Not Determined	Not Determined
Heavy Aromatic Naptha	3000 mg/kg	3000 mg/kg	Not Determined

Effects Of Acute Exposure:	Not determined.
Effects Of Chronic Exposure:	Not determined.
General Irritancy Of Product:	Not determined.
Sensitization:	Not determined.
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

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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: January 1, 2008
MSDS Revision Notes:
MSDS Author: Bri-Chem Supply Ltd.

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