



**SAFETY DATA SHEET
DRILLING DETERGENT L**

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **DRILLING DETERGENT L**

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Oilwell drilling fluid additive

RESTRICTIONS ON USE: None known

SUPPLIER IDENTIFIER: **Prairie Mud Service**
738-6th Street
Estevan , SK S4A 1A4
306-634-3411

EMERGENCY PHONE NUMBER: 306-634-3411

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Acute toxicity (oral) – Category 4
Acute toxicity (inhalation) – Category 4
Skin irritation – Category 2
Serious eye damage / eye irritation – Category 1
STOT-SE (Target organs: CNS) – Category 3
STOT-RE (Target organs: kidney, liver) – Category 2

LABEL SYMBOLS:



SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION: Harmful if swallowed or inhaled.
Causes skin irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
May cause damage to organs (kidney, liver) through prolonged or repeated oral exposure.

OTHER HAZARDS: None known.

PRECAUTIONARY STATEMENTS: Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when handling this product.
Do not breathe mist/vapors.
Use only outdoors or in a well-ventilated area.
Wear eye protection and face protection.
Wear protective gloves.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or doctor/physician if you feel unwell.
IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Dispose of contents/container to an approved waste disposal plant.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Ethylene glycol	107-21-1	18%
Secondary alcohol ethoxylate	84133-50-6	4%

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and wash contaminated skin thoroughly with soap and water. If irritation persists, or develops, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing, warm water for at least 30 minutes. Remove contact lenses if present. Hold eyelids open to ensure thorough flushing. When flushing is complete obtain medical attention.
INGESTION:	Do not induce vomiting. If conscious, rinse out mouth and give 240 to 300 mL of water to drink. If spontaneous vomiting occurs, keep head below hips to prevent aspiration, and give more water. Obtain immediate medical attention or contact Poison Control Center. If medical assistance is not immediately available and victim has swallowed a moderate amount of product, give three to four ounces of hard liquor. For children give proportionately less liquor according to weight. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to area free from contaminants. Apply oxygen or artificial respiration if required. Obtain immediate medical attention or contact Poison Control Center.
MOST IMPORTANT SYMPTOMS / EFFECTS:	May cause severe eye irritation. Prolonged contact or repeated exposure may cause skin irritation. May cause nausea, vomiting, diarrhea and possible liver and kidney damage if ingested. Swallowing large quantities may be toxic.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None.
SPECIFIC FIRE HAZARDS:	Noncombustible. May burn under fire conditions if solvent is boiled off.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon, oxides of nitrogen, oxides of sulfur.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move containers from fire area, or cool with water spray, if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Eliminate ignition sources. Stop leak if possible to do so without risk. Dike to prevent spread of spilled material.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Small spills; soak up with absorbent material; collect used absorbent material in approved containers for disposal. Large spills; dike to prevent spread; collect diked material with vacuum truck. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Treat remaining material as a small spill. Wash spill area thoroughly with water. Ensure spilled material does not enter storm sewers or public waterways.



SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Avoid breathing vapours and mists. Launder contaminated clothing before reuse.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry area away from incompatible materials and ignition sources. Keep container tightly closed when not in use. Store unused material in original container. Follow all directions for use given on container label. Empty packages contain residual hazardous material and should be stored and handled as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	No product data available.
	Component data: Ethylene glycol: ACGIH-TLV = 100 mg/m ³
ENGINEERING CONTROLS:	Use only with adequate ventilation. Use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.
	PERSONAL PROTECTIVE MEASURES
RESPIRATORY PROTECTION:	Use approved respirators with organic vapor cartridges if airborne mist/vapor concentration exceeds limits.
PROTECTIVE GLOVES:	Rubber or viton gauntlets recommended.
EYE PROTECTION:	Wear chemical goggles when handling.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Medium blue liquid.
ODOUR:	Petroleum odour.
ODOUR THRESHOLD:	Not available.
pH:	7 – 8
MELTING POINT / FREEZING POINT:	-15°C
BOILING POINT / RANGE:	Not available
FLASH POINT:	Not available
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not combustible
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not applicable
VAPOUR DENSITY:	Not applicable
RELATIVE DENSITY:	1.05
SOLUBILITY:	Miscible with water.
PARTION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not available



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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not reactive.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	None under normal conditions of use.
CONDITIONS TO AVOID:	Not available.
INCOMPATIBLE MATERIALS:	Strong oxidizers, strong acids and water reactive materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY

No product toxicity data available.

COMPONENT TOXICITY

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Ethylene glycol	4000 mg/kg (rat)	9530 uL/kg (rabbit)	Not available
Secondary alcohol ethoxylate	>412 mg/kg (rat)	>14,000 mg/kg (rat)	1.06 mg/L/4hr

SKIN CONTACT:	Prolonged contact or repeated exposure may cause skin irritation. May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis. Ethylene glycol has been shown to cause renal toxicity from dermal adsorption when tested in laboratory animals.
EYE CONTACT:	May cause severe irritation based on ingredient information.
INGESTION:	May cause nausea, vomiting, diarrhea and possible liver and kidney damage. Swallowing large quantities may be toxic. Animal toxicity values do not meet criteria, but ethylene glycol is more toxic to humans and there is numerous human case reports of toxicity and death published in the literature. Ingestion of ethylene glycol can cause CNS depression (inebriation, convulsions and coma), metabolic acidosis, pulmonary oedema, cardio/respiratory effects and death. Ingestion of ethylene glycol has also been shown to cause adverse blood effects in laboratory animals.
INHALATION:	Because of low vapour pressure, significant amounts of airborne vapours are not expected at room temperatures. Mist may cause irritation of the nose and throat with headache. Heated vapours may produce nausea, vomiting, headache, dizziness and irregular eye movements.
CARCINOGENICITY:	Not listed by NTP, IARC, OSHA or ACGIH.
TERATOGENICITY:	Ethylene glycol is teratogenic, fetotoxic and embryotoxic in animal studies.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	No product information available.



SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No product information available.
Ethylene glycol	Secondary alcohol ethoxylate
LC50 (pimephales promelas) = 100 mg/L/96hr	LC50 (pimephales promelas) = 3.2 – 3.6 mg/L/96hr
LC50 (daphnia magna) >100 mg/L/48hr	LC50 (daphnia magna) = 7.3 mg/L/48hr
EC50 (selanastrum capricornutum) >100 mg/L/96hr	EC50 (bacteria) >1000 mg/L/16hr
EC50 (bacteria (ceriodaphnia) > 100 mg/L/16hr	
PERSISTENCE AND DEGRADABILITY:	Not available
BIOACCUMULATIVE POTENTIAL:	Not available
MOBILITY IN SOIL:	Not available
OTHER ADVERSE EFFECTS:	None know.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be recycled, or disposed of, in accordance with local regulations.

SECTION 14: TRANSPORTATION INFORMATION

TDG	Not regulated
DOT	Not available
IATA	Not regulated
IMDG	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not a marine pollutant
BULK TRANSPORT:	Not regulated
SPECIAL PRECAUTIONS:	None

SECTION 15: REGULATORY INFORMATION

DSL:	Listed
WHMIS CLASS:	D1B, D2A, D2B
TSCA:	Listed

SECTION 16: OTHER INFORMATION

REVISION DATE:	April 17, 2019
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