

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **July 17, 2007**  
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**Edmonton, AB T6E 5G2** FAX: 780-469-1899

PRODUCT NAME: **Drilling Detergent L**

PRODUCT USE: Oil well drilling fluid additive  
CHEMICAL FAMILY: Anionic surfactant blend CAS#: Mixture

## WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A; D2B  
WORKPLACE HAZARD: Chronic toxic effects; skin and eye irritant

## TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not regulated under TDG  
TDG CLASSIFICATION: Not applicable  
UN NUMBER (PIN): Not applicable  
PACKING GROUP: Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>% (w/w)</u>	<u>CAS NUMBER</u>	<u>LD<sub>50</sub>Oral-Rat</u>	<u>LC<sub>50</sub>Inhal-Rat</u>	<u>ACGIH-TLV</u>
Ethylene glycol	15-40	107-21-1	4000 mg/kg	No information	100 mg/m <sup>3</sup>
Alkoxylate metal salt	**	**	Not determined	Not determined	Not available

\*\* HMIRC Confidential Business Information Exemption # 5954 **Granted July 31, 2006.**

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [XX] INHALATION [XX] INGESTION

EYE CONTACT: **Can cause redness and irritation.**

SKIN CONTACT: **Can cause redness, inflammation and irritation.** An ingredient in this product has been shown to cause renal toxicity from dermal adsorption when tested in laboratory animals.

INGESTION:	May cause nausea, vomiting, diarrhea and possible liver and kidney damage. Ingestion of an ingredient in this product causes CNS depression (inebriation, convulsions and coma), metabolic acidosis, pulmonary oedema, cardio/respiratory effects and death. Ingestion of an ingredient in this product has been shown to cause adverse blood effects in laboratory animals.
INHALATION:	May cause irritation of the upper respiratory tract.
CARCINOGENICITY:	No information available.
TERATOGENICITY:	Ethylene glycol is teratogenic and embryo toxic in animal studies.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
SYNERGISTIC PRODUCTS:	No information available.

#### SECTION IV: FIRST AID MEASURES

EYE CONTACT:	Flush with gently flowing warm water for 15 minutes, or until irritation ceases. When flushing is complete obtain medical attention.
SKIN CONTACT:	Wash with soap and plenty of water for at least 20 minutes. Remove contaminated clothing and footwear. If irritation persists, or develops, obtain medical attention.
INGESTION:	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. If conscious, rinse out mouth thoroughly with water. This product contains ethylene glycol, ingestion and lack of immediate medical attention may result in kidney and liver damage. Obtain medical attention or contact poison control centre immediately. Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues, obtain medical attention.

#### SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Medium blue liquid; petroleum odour
SPECIFIC GRAVITY:	1.00
BOILING POINT (°C):	105
MELTING POINT (°C):	- 15
SOLUBILITY IN WATER:	Complete                      pH : 7.0 – 8.0
PERCENT VOLATILE BY VOLUME:	~ 75% at 105°C
EVAPORATION RATE:	Not determined
VAPOUR PRESSURE (mmHg):	Not determined
VAPOUR DENSITY (air = 1):	Not determined
BULK DENSITY:	Not applicable

**SECTION VI: FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	> 100°C (TCC)
FLAMMABLE LIMITS:	Not determined
EXTINGUISHING MEDIA:	Use media suitable for surrounding material.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire fighting personnel. Move containers from fire area, or cool with water spray, if possible.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Although this product is not considered flammable, loss of water in a fire situation may render the material combustible.

**SECTION VII: REACTIVITY DATA**

STABILITY:	STABLE [XX]	UNSTABLE [ ]
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizing agents and caustic solutions. Avoid high temperatures and ignition sources.	
CONDITIONS OF REACTIVITY:	Not available	
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon, nitrogen and sulfur on combustion.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR [ ]

**SECTION VIII: PREVENTATIVE MEASURES****SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION:	In the absence of adequate ventilation use approved respirators with organic vapour cartridges.
VENTILATION:	Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of airborne mists or vapours below TLV.
PROTECTIVE GLOVES:	Suggest rubber or viton.
EYE PROTECTION:	Suggest chemical goggles and/or full-face shield be worn.
OTHER PROTECTIVE EQUIPMENT (Specify):	Chemical resistant clothing as required preventing contact. Ensure eye wash station and emergency shower are available

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Avoid ingestion. Avoid breathing vapours and mists. Avoid direct or prolonged contact with skin and eyes. **Thoroughly clean contaminated clothing and footwear before rewearing.** Store in a cool, dry area away from ignition sources and incompatible materials.

**STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED**

Use appropriate safety equipment. Dike to prevent spread of spilled material. Stop leak if possible to do so without risk. Small spills; soak up with absorbent materials. Large spills; collect uncontaminated material for repackaging, collect contaminated material in an approved container for disposal, treat remainder as a small spill. Collect absorbent material in approved container for disposal. Flush spill area thoroughly with water. Collect wash water in approved containers for disposal. Do not allow material to enter storm sewers or public waterways.

**WASTE DISPOSAL METHOD**

Dispose 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 that have not been rinsed and purged, contain residual hazardous material and must be disposed of, or recycled in accordance with local regulations.

**SECTION IX: PREPARATION**

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH,  
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: July 17, 2007 BY: Product safety committee  
SUPERSEDES: December 6, 2004 PHONE: 780-440-4923

**Diversity Technologies Corp. is the parent company of  
Canamara-United Supply, Hollimex Products, The Drilling Depot and  
Westcoast Drilling Supplies.**