

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **February 15, 2010**  
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PRODUCT NAME: **CAN-FREE**

PRODUCT USE: Oilwell drilling fluid additive  
CHEMICAL FAMILY: Mixture CAS#: Mixture

## WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: B3; D1B; D2B  
WORKPLACE HAZARD: Combustible liquid; toxic; 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>
<b>Nonylphenol ethoxylate</b>	<b>30-60</b>	<b>9016-45-9</b>	<b>5100 mg/kg</b>	Not determined	Not available
Petroleum hydrocarbons	15-40	<b>64741-44-2</b>	<b>&gt;5000 mg/kg</b>	<b>1700 mg/kg/4 hr</b>	<b>Not available</b>
2-Ethylhexanol	5-10	104-76-7	2049 mg/kg	>227 ppm/6 hr (aerosol)	Not established

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [XX] INHALATION [XX] INGESTION  
EYE CONTACT: Severe eye irritant. Can cause redness, irritation and tissue destruction.  
SKIN CONTACT: Can cause irritation, redness and inflammation. Prolonged or repeated contact may cause dermatitis. Contains an ingredient (petroleum hydrocarbon) that may cause sensitization in certain individuals.  
INGESTION: May cause gastrointestinal irritation, nausea, diarrhea and abdominal cramps. Chronic exposure to an ingredient in this product has been shown to cause adverse effects on the liver in laboratory animals.

INHALATION:	Inhalation of spray or mist may cause chemical pneumonitis. Vapours may cause irritation of mucous membranes, coughing, headaches, nausea, dizziness and intoxication.
CARCINOGENICITY:	Chronic dermal exposure to petroleum hydrocarbons has been shown to cause skin tumours in laboratory animals.
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	Petroleum hydrocarbons have been shown to cause in-vitro mutation in mammalian cells.
SYNERGISTIC PRODUCTS:	No information available.

#### SECTION IV: FIRST AID MEASURES

EYE CONTACT:	Immediately flush eyes 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 copious quantities 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, keep head below hips to reduce risks of aspiration. Obtain immediate medical attention.
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:	Dark amber liquid; petroleum odour
SPECIFIC GRAVITY:	0.96
BOILING POINT (°C):	Not determined
MELTING POINT (°C):	<-5
SOLUBILITY IN WATER:	Dispersible                      pH: Not determined
PERCENT VOLATILE BY VOLUME:	Not determined
EVAPORATION RATE:	Not determined
VAPOUR PRESSURE (mmHg):	Negligible at 20°C
VAPOUR DENSITY (air = 1):	Not determined
BULK DENSITY:	Not applicable

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

FLASH POINT:	73.3°C (TCC)
FLAMMABLE LIMITS:	Not determined

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PROCEDURES:	Dry chemical, foam, CO <sub>2</sub> or water fog. 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:	Vapours may travel to source of ignition and flash back at temperatures above the flash point.

### SECTION VII: REACTIVITY DATA

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

### SECTION VIII: PREVENTATIVE MEASURES

#### SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Up to 5 mg/m <sup>3</sup> ; none required. From 5 to 50 mg/m <sup>3</sup> ; use approved respirator with organic vapour/mist cartridges. Above 50 mg/m <sup>3</sup> ; use full-face air supplied or self-contained breathing apparatus.
VENTILATION:	Use local exhaust ventilation, process enclosure or other engineering controls to maintain concentration of vapours below TLV. Ensure all equipment is explosion proof.
PROTECTIVE GLOVES:	Suggest rubber or viton
EYE PROTECTION:	Suggest chemical goggles and/or full face-shield be worn. Do not wear contact lenses.
OTHER PROTECTIVE EQUIPMENT (Specify):	Wear chemical resistant clothing as required to prevent contact. Ensure eyewash station and emergency shower are available.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Wear protective equipment when handling this product to prevent eye and skin contact. Wash thoroughly after handling. Store at ambient temperatures away from incompatible materials and ignitions sources. Keep container tightly closed when not in use. Empty containers may contain residues. Follow all warnings and precautions even after container is emptied.

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

Use appropriate safety equipment. Eliminate ignition sources. Dike to prevent spread of spilled material. Stop leak if possible to do so without risk. Small spill; soak up with absorbent material. Large spills; collect uncontaminated material for repackaging, collect contaminated material in an approved container for disposal, treat remainder as a small spill. Collect contaminated absorbent material in an approved container for disposal. Flush spill area thoroughly with water. Collect wash water in approved container for disposal.

**WASTE DISPOSAL METHOD**

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 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: February 15, 2010

BY: Product Safety Committee

SUPERSEDES: February 15, 2007

PHONE: 780-440-4923

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