



SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **November 5, 2015**
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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; **D2A**; D2B
 WORKPLACE HAZARD: Combustible liquid; **contains a carcinogenic ingredient**; 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

INGREDIENT	% (w/w)	CAS NUMBER	LD ₅₀ Oral-Rat	LC ₅₀ Inhal-Rat	ACGIH-TLV
Petroleum distillate	40-60	64741-44-2	>5000mg/kg	1700 mg/m³/4hr	10 mg/m ³ (oil mist)
2-Ethylhexanol	5-10	104-76-7	2049 mg/kg	>227 ppm/6 hr (aerosol)	Not established
Secondary alcohol ethoxylate	5-10	84133-50-6	Not available	Not available	Not available
Polycyclic aromatic hydrocarbons	Variable	130498-29-2	Not available	Not available	OSHA: 0.2 mg/m³ TWA

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION 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. **Prolonged skin contact with polycyclic aromatic hydrocarbons has been associated with the induction of skin and lung tumours, anemia, disorders of the liver, bone marrow and lymphoid**

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INGESTION:	tissues. 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:	Polycyclic aromatic hydrocarbons have been associated with the induction of skin and lung tumours, anemia, disorders of the liver, bone marrow and lymphoid tissues.
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

SKIN CONTACT:	Immediately flush eyes with gently flowing, warm water for 15 minutes, or until irritation ceases. When flushing is complete obtain medical attention.
EYE 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:	0.9
BOILING POINT (°C):	Not determined
MELTING POINT (°C):	Not determined
SOLUBILITY IN WATER:	Dispersible pH: Not determined
PERCENT VOLATILE BY VOLUME:	Not determined
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:	75 – 80°C (based on ingredients)
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FLAMMABLE LIMITS:	Not determined
EXTINGUISHING MEDIA:	Dry chemical, foam, CO ₂ or water fog.
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:	Vapours may travel to source of ignition and flash back at temperatures above the flash point.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon, oxides of sulfur, oxides of nitrogen.

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizers. Avoid high temperatures and ignition sources.	
CONDITIONS OF REACTIVITY:	Not available	
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.	
HAZARDOUS POLYMERIZATION:	<input checked="" type="checkbox"/> WILL NOT OCCUR	<input type="checkbox"/> MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Up to 5 mg/m ³ ; none required. From 5 to 50 mg/m ³ ; use approved respirator with organic vapour/mist cartridges. Above 50 mg/m ³ ; 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.

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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 contains herein is given in good faith, but no warranty, expressed or implied, is made.

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BY: Regulatory Affairs
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