

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **February 9, 2016**
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PRODUCT NAME: **XL - DEFOAMER**

PRODUCT USE: Oilwell drilling fluid additive
CHEMICAL FAMILY: Alkanol and surfactant blend in petroleum distillate. CAS #: Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: B3; D2B
WORKPLACE HAZARD: Combustible liquid; 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
2-Ethyl hexanol	40 – 70	104-76-7	2049 mg/kg	Not available	Not established

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION
EYE CONTACT: Severe irritant: May cause redness, inflammation and watering upon contact. High vapour concentrations may cause irritation.
SKIN CONTACT: May cause mild to moderate skin irritation including redness and swelling. May cause more severe response under clothing, gloves, etc. Repeated or prolonged contact may cause dermatitis.
INGESTION: May cause gastrointestinal irritation.
INHALATION: May cause irritation of the respiratory tract. Prolonged excessive exposure may cause adverse effects including central nervous system depression. Aspiration in to lungs may occur during swallowing or vomiting, causing lung damage or even death due to chemical pneumonia.
CARCINOGENICITY: No information available.

TERATOGENICITY: 2-Ethylhexanol has caused birth defects in laboratory animals only at doses toxic to the mother.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICITY: No information available.

SYNERGISTIC PRODUCTS: No information available.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and footwear. Thoroughly wash affected area with soap and water. If irritation persists, or develops, obtain medical attention.

EYE CONTACT: Immediately flush with gently flowing warm water for 15 minutes, or until irritation ceases. When flushing time is completed obtain medical attention.

INGESTION: Do not induce vomiting. If vomiting occurs, keep head below hips to reduce risk of aspiration of vomitus into lungs. Get immediate medical attention.

INHALATION: Move patient to fresh air. Apply oxygen or artificial respiration as required. If breathing difficulties or distress continues obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Clear water white liquid; sweet odour
SPECIFIC GRAVITY:	0.89
BOILING POINT (°C):	Not determined
MELTING POINT (°C):	<-25
SOLUBILITY IN WATER:	Dispersible pH: 7 - 8
PERCENT VOLATILE BY VOLUME:	Not determined
EVAPORATION RATE:	Not determined
VAPOUR PRESSURE (mmHg):	Not determined
VAPOUR DENSITY (air = 1):	Not available
BULK DENSITY:	Not applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 73.3°C (TCC)

FLAMMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: CO₂; foam; dry chemical; water fog

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire-fighting personnel. Remove containers from fire area, or cool with water-spray, if possible.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Explosive vapour/air mixtures may form at flash point. Vapours may travel to source of ignition and flash back.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon.

SECTION VII: REACTIVITY DATA

STABILITY: STABLE UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents. Avoid sources of ignition.
CONDITIONS OF REACTIVITY: Not available.
HAZARDOUS DECOMPOSITION PRODUCTS: Not available.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: In absence of proper ventilation, recommend approved respirator with organic vapour/mist cartridges.

VENTILATION: Use in well ventilated area. Use local exhaust ventilation, process enclosure or other engineering controls to maintain airborne levels below TLV.

PROTECTIVE GLOVES: Wear chemical resistant gloves: Viton or rubber recommended.

EYE PROTECTION: Wear chemical splash goggles when handling.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Suggest rubber apron. Ensure eye wash station and safety shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Wash thoroughly after handling. Clean contaminated clothing and footwear before reuse. Avoid breathing mists and vapours. Store in a cool area separate from incompatible materials. Store unused material in original container. Keep container tightly closed when not in use. Handle only in area free of ignition sources. Ground containers when transferring material. Empty containers, which have not been cleaned and purged, contain residual hazardous material and should be handled and stored as if full.

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

Use appropriate protective equipment. Dike to contain spill and to prevent water pollution. Recover diked material by vacuum. Soak up small spills with absorbent material. Collect contaminated material and absorbents in approved containers for disposal. Flush area with water.

WASTE DISPOSAL METHOD

Dispose in accordance with all 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 must be disposed or, 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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