

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **October 24, 2008**  
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PRODUCT NAME: **Chemul II- 205L**

PRODUCT USE: Oil well drilling fluid additive  
CHEMICAL FAMILY: Blend of surfactants 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: Exempt per paragraph 1.33 of TDG Regulations  
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>
Kerosene	15-40	8008-20-6	2835 (rabbit)	Not available	Not established
Citric Acid	3-7	77-92-9	6730 mg/kg	Not available	Not established

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX]EYE CONTACT [XX]SKIN [XX]INHALATION [XX]INGESTION  
EYE CONTACT: Mist and liquid may cause irritation  
SKIN CONTACT: May cause irritation, redness and inflammation on prolonged contact.  
INGESTION: Low acute oral toxicity.  
INHALATION: High vapour or mist concentrations may irritating to the respiratory tract and may cause headaches, dizziness, anesthesia, unconsciousness and other CNS effects,  
CARCINOGENICITY: No ingredients of this product are listed as carcinogenic.  
TERATOGENICITY: No information available.

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 minimum 15 minutes. When flushing is complete obtain medical attention.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and launder before reusing. If irritation persists, or develops, obtain medical attention.

INGESTION: Do not induce vomiting. If conscious rinse out mouth and give 1 to 2 glasses of water to drink. If vomiting occurs, keep head below hips to ensure vomitus is not aspirated. Even small amounts of liquid being aspirated can cause chemical pneumonitis. Obtain medical attention. Never give anything by mouth unless victim is fully conscious.

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:	Amber liquid; hydrocarbon odour.
SPECIFIC GRAVITY:	Not available.
BOILING POINT (°C):	Not available.
MELTING POINT (°C):	Not available.
SOLUBILITY IN WATER:	Insoluble                      pH : Not applicable
PERCENT VOLATILE BY VOLUME:	Not available.
EVAPORATION RATE:	Not available.
VAPOUR PRESSURE (mmHg):	Not available.
VAPOUR DENSITY (air = 1):	Not available.
BULK DENSITY:	Not applicable.

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

FLASH POINT:	43°C (Tag CC)
FLAMMABLE LIMITS:	Not determined.
EXTINGUISHING MEDIA:	Dry chemical, foam, CO <sub>2</sub> , or water spray.
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 can travel to source of ignition and flash back. May accumulate static charge and ignite.

### SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [XX]	UNSTABLE [ ]
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizing and acids. Avoid high temperatures and ignition sources.	
CONDITIONS OF REACTIVITY:	Not available	
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon and smoke 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 or self contained breathing apparatus.
VENTILATION:	Use local exhaust ventilation, process enclosure or other engineering controls to maintain concentration of vapours below TLV. Ensure explosion proof equipment is used.
PROTECTIVE GLOVES:	Suggest rubber or viton.
EYE PROTECTION:	Suggest chemical goggles and/or full-face shield be worn. Do not wear contact lenses when handling this material.
OTHER PROTECTIVE EQUIPMENT (Specify):	Wear chemical resistant clothing as required to prevent contact. Ensure eye wash station and emergency shower are available

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid breathing vapours and mists. Avoid direct or prolonged contact with skin and eyes. Use nonsparking tools and ground equipment and containers when transferring. Store in tightly closed containers in an area that is dry and well ventilated. Store away from ignition sources and incompatible materials. Handle and store empty containers as if full.

### **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 spills; soak up with absorbent materials. Large spills; collect uncontaminated material for repacking, collect contaminated material in an approved container for disposal, and 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.

### **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, which 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: **October 24, 2008**

BY: Product safety committee

SUPERSEDES: **October 24, 2005**

PHONE: 780-440-4923

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