

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **May 23, 2009**
8750 – 53rd Ave. PHONE: 780-468-4064
Edmonton, AB T6E 5G2 FAX: 780-469-1899

PRODUCT NAME: **Invermul® NT**

PRODUCT USE: Water in oil drilling fluid emulsifier.
CHEMICAL FAMILY: Mixture CAS #: Not applicable

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: B3; D1A; D2B
WORKPLACE HAZARD: Combustible liquid; poisonous; 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>LD₅₀ Oral-Rat</u>	<u>LC₅₀ Inhal-Rat</u>	<u>ACGIH-TLV</u>
Hydrotreated light petroleum distillate	10-30	64742-47-8	Not available	Not available	200 mg/m ³
Ethylene glycol monobutyl ether	1-5	111-76-2	320 mg/kg (rabbit)	450 ppm/4hr	20 ppm
Diethylene glycol monobutyl ether	1.5	112-34-5	2000 mg/kg (guinea pig)	Not available	Not established

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX]EYE CONTACT [XX]SKIN [XX]INHALATION [XX]INGESTION
EYE CONTACT: May cause severe irritation.
SKIN CONTACT: May cause irritation. Prolonged or repeated exposure may cause dermatitis. Contains ethylene glycol monobutyl ether which can be absorbed through the skin and is considered very toxic by this route of exposure, based on animal information.

INGESTION:	This product contains ethylene glycol monobutyl ether, which is considered toxic by ingestion, based on animal evidence. It can cause symptoms of CNS depression (producing symptoms such as headache, nausea, dizziness, drowsiness, and confusion and may cause loss of consciousness and possibly death) and possibly effects related to destruction of red blood cells (hemolysis).
INHALATION:	This product contains ethylene glycol monobutyl ether, which is considered very toxic by inhalation, based on animal information. It affects the central nervous system (CNS), producing symptoms such as headache, nausea, dizziness, drowsiness, and confusion and may cause loss of consciousness and possibly death. Animal toxicity is characterized primarily by the destruction of red blood cells (hemolysis). Research indicates that human red blood cells are much less susceptible to the hemolysis. Aspiration into the lungs may cause chemical pneumonitis.
CHRONIC TOXICITY:	Ethylene glycol monobutyl ether is considered a chronic toxicity hazard because it has caused significant health effects in animals following long-term exposure to relatively low concentrations.
CARCINOGENICITY:	No information available.
TERATOGENICITY:	No information available.
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. Immediately flush with water for at least 15 to 20 minutes. Obtain immediate medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for 15 minutes or until irritation ceases. Hold eyelids open to ensure thorough flushing. When flushing is completed, obtain medical attention.
INGESTION:	Do not induce vomiting. If conscious, rinse out mouth and give 2 to 8 oz of water. If vomiting occurs keep head below hips to prevent aspiration of vomitus. Obtain immediate medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Dark amber liquid; mild hydrocarbon odour	
SPECIFIC GRAVITY:	0.92 – 0.95	
BOILING POINT (°C):	199	
MELTING POINT (°C):	Not determined	
SOLUBILITY IN WATER:	Insoluble	pH: 4 - 7
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:	69°C (PMCC)	
FLAMMABLE LIMITS:	Lower = 0.6%	Upper = 4.7%
EXTINGUISHING MEDIA:	Water fog, carbon dioxide, foam, dry chemical	
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire fighting personnel.	
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known.	

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [XX]	UNSTABLE []
INCOMPATIBILITY (CONDITIONS TO AVOID):	Avoid contact with strong oxidizers.	
CONDITIONS OF REACTIVITY:	Not available.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of nitrogen, oxides of carbon and hydrocarbons.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR []

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

RESPIRATORY PROTECTION:	Wear an approved respirator with organic vapour cartridges or SCBA when handling this product.
VENTILATION:	Use in a well ventilated area. Use local exhaust ventilation in areas without good ventilation.
PROTECTIVE GLOVES:	Use neoprene or viton gloves.
EYE PROTECTION:	Wear chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT Ensure eyewash station and emergency shower are
(Specify): available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with eyes, skin and clothing. Avoid breathing vapours. Do not ingest. Wash hands after use. Launder contaminated clothing before reuse. Store in a cool, dry well-ventilated place away from oxidizers and ignition sources. Keep container closed when not in use. Empty packages 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 safety equipment. Evacuate area and eliminate ignition sources. Stop leak if possible to do so without risk. Dike to prevent spread of spilled material. Collect large spills with vacuum truck. Soak up small spills with absorbent material. Collect uncontaminated material for repackaging. Collect contaminated material and absorbents in approved containers for disposal. Keep out of sewers, storm drains, surface waters and soils.

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. Dispose of all packaging 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: May 23, 2009 BY: Product safety committee
SUPERSEDES: May 23, 2006 PHONE: 780-440-4923

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