

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **January 12, 2017**
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PRODUCT NAME: **MATRIX WET**

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

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2B
 WORKPLACE HAZARD: Skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not regulated
 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 - 70	64741-44-2	Not available	Not available	10 mg/m ³ (oil mist)

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION
 EYE CONTACT: Mist and liquid may cause irritation
 SKIN CONTACT: May cause irritation. Prolonged or repeated exposure may cause dermatitis. Prolonged skin contact with petroleum products is associated with skin cancer.
 INGESTION: Low acute oral toxicity.
 INHALATION: Vapours or mists may cause respiratory tract irritation. May cause headache, dizziness, loss of appetite and loss of consciousness. May affect the liver and kidneys. Aspiration of product during swallowing or vomiting may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
 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: Flush with gently flowing, warm water for minimum 15 minutes. When flushing is complete obtain medical attention.

EYE 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 or give liquids. 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.

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: 0.9

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: >100°C (Based on ingredient information)

FLAMMABLE LIMITS: Not determined.

EXTINGUISHING MEDIA: Dry chemical, foam, CO₂, 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.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and smoke on combustion.

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizing and acids. 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:	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 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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