

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **January 12, 2017**
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PRODUCT NAME: **AE 851**

PRODUCT USE: Drilling fluid additive
 CHEMICAL FAMILY: Anionic water soluble polymer CAS #: Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not WHMIS controlled
 WORKPLACE HAZARD: May cause skin and eye irritation; spills cause extremely slippery surfaces.

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
Distillates, hydrotreated light	20-45	64742-47-8	>5000 mg/kg	4951 mg/m ³ /4hr	Not available
Alcohols, C ₁₁₋₁₄ -iso-, C ₁₃ rich, ethoxylated	<3	78330-21-9	>2000 mg/kg	Not available	Not available

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION
 EYE CONTACT: May cause eye irritation.
 SKIN CONTACT: Contact may cause irritation. Prolonged contact may defat skin and produce dermatitis. **LD₅₀ (dermal, rat) >5000 mg/kg.**
 INGESTION: May cause nausea and vomiting. LD₅₀ Oral Rat > 5000 mg/kg.
 INHALATION: Vapours or mists may irritate the upper respiratory tract.
 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; wash exposed area thoroughly with soap and water. If irritation develops and persists obtain medical attention.
EYE CONTACT:	Immediately flush eyes with gently flowing warm water for 15 minutes, or until irritation ceases. If irritation persists, obtain medical attention.
INGESTION:	Do not induce vomiting. If vomiting occurs, keep head below hips to ensure vomitus is not aspirated. If symptoms develop, obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move patient 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:	Milky, viscous liquid; aliphatic odour
SPECIFIC GRAVITY:	1.0 – 1.1
BOILING POINT (°C):	Not available
MELTING POINT (°C):	<5
SOLUBILITY IN WATER:	Miscible pH: 5 - 9 (5% sol'n)
PERCENT VOLATILE BY VOLUME:	Not available
EVAPORATION RATE:	Not available
VAPOUR PRESSURE (mmHg):	2.3 kPa @ 20°C
VAPOUR DENSITY (air = 1):	Not available
BULK DENSITY:	Not applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	>100°C
FLAMMABLE LIMITS:	Not available
EXTINGUISHING MEDIA:	Water spray, foam, dry chemical, carbon dioxide
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:	Material becomes very slippery when contacted by water.
HAZARDOUS COMBUSTION PRODUCTS:	Thermal decomposition may produce oxides of carbon and oxides of nitrogen.

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	Oxidizing agents may cause exothermic reactions.	
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 case of insufficient ventilation and/or misty conditions, wear NIOSH approved respirator with dust/mist filters.
VENTILATION:	Natural ventilation is adequate in absence of mists. Use process enclosure, local exhaust ventilation or other engineering controls if misting occurs.
PROTECTIVE GLOVES:	Suggest rubber or viton.
EYE PROTECTION:	Suggest safety glasses with side-shields, chemical goggles and/or face shield. Do not wear contact lenses.
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 contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling and before breaks. Launder contaminated clothing before reuse. Store in a cool, dry area away from oxidizers. Store between 0°C and 30°C. Freezing will affect the physical condition and may damage the material.

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

Wear appropriate safety equipment. Dike to prevent spread of material. For large spills, collect by vacuum. For small spills, soak up with absorbent. Collect absorbent in approved containers for disposal. Wash spill area thoroughly with a bleach solution. Do not allow material to enter public waterways or storm sewer.

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 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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