

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **April 9, 2008**  
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PRODUCT NAME: **Hyperdrill AF Series**  
**AF-204 RD, AF-207 RD, AF-247 RD**

PRODUCT USE: Oil well drilling fluid additive  
CHEMICAL FAMILY: Anionic water soluble polymer CAS#: Not available

## WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not WHMIS controlled  
WORKPLACE HAZARD: Treat as a nuisance dust

## 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>LD<sub>50</sub>Oral-Rat</u>	<u>LC<sub>50</sub>Inhal-Rat</u>	<u>ACGIH-TLV</u>
Contains no WHMIS controlled ingredients.					

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY:  EYE CONTACT  SKIN  INHALATION  INGESTION  
EYE CONTACT: Mechanical irritation may occur.  
SKIN CONTACT: Animal tests showed this material to be non-irritating and non-toxic from skin contact.  
INGESTION: No adverse effects expected. LD<sub>50</sub> (oral, rat) >5000mg/kg.  
INHALATION: High dust concentration may cause slight irritation of 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: Wash contaminated area with soap and water. If irritation persists consult a physician.  
EYE CONTACT: Flush with gently flowing warm water until particle(s) are removed. If irritation persists, consult a physician.  
INGESTION: If victim is fully conscious give 2 to 4 glasses of water to dilute material. If symptoms develop obtain medical attention. Never give anything by mouth to an unconscious or convulsing victim.  
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: White granular powder; odourless  
SPECIFIC GRAVITY: Not available  
BOILING POINT (°C): Not available  
MELTING POINT (°C): Not available  
SOLUBILITY IN WATER: Soluble pH: 6.0 – 8.0 (0.5% solution)  
PERCENT VOLATILE BY VOLUME: Not applicable  
EVAPORATION RATE: Not applicable  
VAPOUR PRESSURE (mmHg): Not applicable  
VAPOUR DENSITY (air = 1): Not applicable  
BULK DENSITY: See Product Data Sheet for specific product values.

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

FLASH POINT: Not applicable  
FLAMMABLE LIMITS: Not applicable  
EXTINGUISHING MEDIA: Use media suitable for surrounding material and packaging. Avoid using water as material becomes extremely slippery when wet.  
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire fighting personnel. Move containers from fire area if possible.

**UNUSUAL FIRE AND  
EXPLOSION HAZARDS:**

As with most organic powders, flammable dust clouds may be formed in air.

**SECTION VII: REACTIVITY DATA**

STABILITY:	STABLE [XX]	UNSTABLE [ ]
INCOMPATIBILITY (CONDITIONS TO AVOID):	Oxidizing agents may cause exothermic reactions. Avoid high temperatures, open flames, sparks and all other sources of ignition	
CONDITIONS OF REACTIVITY: HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may produce oxides of carbon and oxides of nitrogen.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR [ ]

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

RESPIRATORY PROTECTION:	Recommend NIOSH/MESA approved dust mask.
VENTILATION:	General mechanical is sufficient for normal conditions of use. If TLV is exceeded use process enclosure, local exhaust ventilation or other engineering controls. TLV = 15mg/m <sup>3</sup> .
PROTECTIVE GLOVES:	Use gloves to avoid prolonged or repeated skin contact.
EYE PROTECTION:	Use splash goggles when eye contact may occur.
OTHER PROTECTIVE EQUIPMENT (Specify):	As necessary to prevent contact. Ensure eye wash station and emergency shower available.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Dust generated in handling of this product can be explosive if sufficient quantities are mixed in air in which case ignition sources should be avoided. Avoid prolonged or repeated breathing of dust and contact with eyes and skin. Cleanse skin thoroughly after contact, before breaks and meals and at end of work period. Store in cool, dry area.

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

Do not flush with water. Sweep up or vacuum, dry material. After cleaning, flush spill area with water. Avoid generation of dust. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Spills of dilute solutions may be flushed with copious amounts of water, or alternatively, they may be absorbed with an inert material such as earth or speedi-dry and contained for disposal. The product or its solutions should not be allowed to enter waterways without treatment.

### **WASTE DISPOSAL METHOD**

Product should be disposed of in accordance with applicable 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.

### **SECTION IX: PREPARATION**

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH,  
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED:	April 9, 2008	BY:	Product safety committee
SUPERSEDES:	May 18, 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.**