

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **August 31, 2016**
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PRODUCT NAME: **Hyperdrill AF Series**
AF-204 RD, AF-207 RD, AF-247 RD

PRODUCT USE: Oilwell 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

INGREDIENT	% (w/w)	CAS NUMBER	LD ₅₀ Oral-Rat	LC ₅₀ Inhal-Rat	ACGIH-TLV
Contains no WHMIS controlled ingredients.					

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT 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. **LD50 (dermal, rat) > 5000 mg/kg.**
INGESTION: No adverse effects expected. LD50 (oral, rat) >5000mg/kg.
INHALATION: High dust concentration may cause slight irritation of the upper respiratory tract.
CARCINOGENICITY: **Not carcinogenic.**
TERATOGENICITY: No information available.
REPRODUCTIVE TOXICITY: **Not toxic.**
MUTAGENICITY: **Not mutagenic.**
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 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:	White granular powder; odourless
SPECIFIC GRAVITY:	Not available
BOILING POINT (°C):	Not available
MELTING POINT (°C):	Not available
SOLUBILITY IN WATER:	Soluble
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.
	pH: 5 - 9 (0.5% sol'n)

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.
HAZARDOUS COMBUSTION PRODUCTS:	No information available.

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> 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:	Not available.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may produce oxides of carbon and oxides of nitrogen.	
HAZARDOUS POLYMERIZATION:	<input checked="" type="checkbox"/> WILL NOT OCCUR	<input type="checkbox"/> MAY OCCUR

SECTION VIII: PREVENTIVE 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 ³ .
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 contains herein is given in good faith, but no warranty, expressed or implied, is made.

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