

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **July 15, 2013**
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PRODUCT NAME: **DrilStar HT**
 PRODUCT USE: Oilwell drilling fluid additive
 CHEMICAL FAMILY: Pregelatinized starch CAS #: 9005-25-8

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not a controlled product under WHMIS
 WORKPLACE HAZARD: Dust explosion hazard.

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 LD₅₀Oral-Rat LC₅₀Inhal-Rat ACGIH-TLV
 Contains no WHMIS controlled ingredients

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: X EYE CONTACT X SKIN CONTACT X INHALATION X INGESTION
 EYE CONTACT: May cause mechanical irritation.
 SKIN CONTACT: No effects expected.
 INGESTION: No effects expected.
 INHALATION: May cause irritation to upper respiratory tract. Symptoms include coughing and sneezing.
 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 eyes with gently flowing water for 15 minutes or until irritation ceases. If irritation persists seek medical attention.
 EYE CONTACT: Wash skin with soap and water.
 INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Seek medical attention. Never give anything by mouth to an unconscious or convulsing victim.
 INHALATION: Move to fresh air. Apply oxygen or artificial respiration as required. If breathing difficulties or distress continues obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR: White powder; no odour information available
 SPECIFIC GRAVITY: Not available
 BOILING POINT (°C): Not applicable
 MELTING POINT (°C): Not applicable

SOLUBILITY IN WATER: Appreciable
pH: 5.0 - 8.0 (4% sol'n)
PERCENT VOLATILE BY VOLUME: Not applicable
EVAPORATION RATE: Not applicable
VAPOUR PRESSURE (mmHg): Not applicable
VAPOUR DENSITY (air = 1): Not available
BULK DENSITY: 20 - 35 lb/ft³

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable
FLAMMABLE LIMITS: Not applicable
EXTINGUISHING MEDIA: Water, foam, dry powder, CO₂
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire-fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Dust-air mixture may be explosive. The minimum ignition temperature reported for starch, through 200 mesh, is 380°C. The minimum explosive concentration of a dust cloud is 0.04 oz/ft³. Avoid ignition sources.
HAZARDOUS COMBUSTION PRODUCTS: No information available.

SECTION VII: REACTIVITY DATA

STABILITY: STABLE UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents. Avoid creating dust clouds in presence of ignition sources.
CONDITIONS OF REACTIVITY: Contact with incompatible materials; dust clouds in the presence of ignition sources.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon upon combustion.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Suggest NIOSH/MESA approved dust mask if dust is present at levels below TLV. Use approved respirator with dust cartridges if level of airborne dust exceeds TLV.
VENTILATION: Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of airborne dust below TLV.
PROTECTIVE GLOVES: Not required
EYE PROTECTION: Suggest safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT (SPECIFY): Ensure eye wash station and emergency shower are available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Practice reasonable caution and personal cleanliness. Avoid ingestion. Do not breathe dust. Avoid skin and eye contact. Avoid practices, which produce dust. Store away in cool, dry area away from incompatible materials and ignition sources. Keep container tightly closed when not in use. This product is very slippery when wet.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED: Use appropriate safety equipment. Eliminate ignition sources. Vacuum or sweep up in a manner, which does not create dust clouds. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water. Clean up as much dry material as possible then flush spill area with copious quantities of water.

WASTE DISPOSAL METHOD: Dispose/incinerate 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.

SECTION IX: PREPARATION

The information contains herein is given in good faith, but no warranty, expressed or implied, is made.

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SUPERSEDES: **July 18, 2010**

BY: Regulatory Affairs
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