



SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **June 24, 2015**
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PRODUCT NAME: **Poly-Xan**

PRODUCT USE: Oilwell drilling fluid additive

CHEMICAL FAMILY: Polysaccharide polymer CAS #: 11138-66-2

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not WHMIS controlled.
 WORKPLACE HAZARD: Treat as nuisance dust ; 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	LD ₅₀ Oral-Rat	LC ₅₀ Inhal-Rat	ACGIH-TLV
Contains no WHMIS controlled ingredients.					

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: D EYE CONTACT D SKIN CONTACT D INHALATION D INGESTION

EYE CONTACT: May cause mechanical irritation.
 SKIN CONTACT: May cause drying.
 INGESTION: Not toxic. LD50 (oral-rat) > 5 mg/kg.
 INHALATION: High dust levels may cause upper respiratory tract irritation.
 Nuisance dust: TLV = 10 mg/m³ total dust.

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 with soap and water. If irritation develops, obtain medical attention. Launder contaminated clothing before re-use.

EYE CONTACT: Flush with gently flowing warm water until particles are removed. If irritation persists, obtain medical attention.

INGESTION: Do not induce vomiting. If conscious, rinse out mouth and give 1 to 2 glasses of water to drink. If vomiting occurs keep head below hips to prevent aspiration of vomitus, and readminister water. If symptoms develop, obtain medical attention. Never give anything by mouth to an unconscious or convulsing victim.

INHALATION: Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties, or distress, continue obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR: White to cream powder; slight odour
 SPECIFIC GRAVITY: Not available
 BOILING POINT (°C): Not available
 MELTING POINT (°C): Not available
 SOLUBILITY IN WATER: Complete pH: 6 - 8 (1% sol'n)

PERCENT VOLATILE BY VOLUME: Not available
EVAPORATION RATE: Not available
VAPOUR PRESSURE (mmHg): Not applicable
VAPOUR DENSITY (air = 1): Not applicable
BULK DENSITY: Not available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable
FLAMMABLE LIMITS: Not applicable
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam.
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire- fighting personnel. Move from fire area if possible.
UNUSUAL FIRE AND EXPLOSION HAZARDS: As with most organic powders, product may form an explosive dust/air mixture in the presence of an ignition source. May burn under fire conditions.
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon.

SECTION VII: REACTIVITY DATA

STABILITY: STABLE UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID): Avoid contact with strong oxidizers and creating dust clouds.
CONDITIONS OF REACTIVITY: May react with strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Not available.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Recommend NIOSH approved dust mask in absence of adequate ventilation. Use approved respirator with dust cartridges of dust level above TLV.
VENTILATION: Use local exhaust ventilation, process enclosure or other engineering controls to maintain dust level below TLV.
PROTECTIVE GLOVES: Not required.
EYE PROTECTION: Suggest safety glasses with side-shields be worn.
OTHER PROTECTIVE EQUIPMENT (SPECIFY): Wear clothing adequate to protect against exposure. Ensure eyewash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid skin and eye contact. Wash thoroughly after handling. Avoid ingestion. Avoid breathing dust. Avoid creating dust cloud during handling. Use only in a well ventilated area. Store in a cool, dry area away from incompatible materials. Keep away from heat and sources of ignition. 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. Slippery when wet.

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

Use appropriate safety equipment. Eliminate ignition sources. Contain spill. Collect by vacuum if possible to avoid generation of dust. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Non-sparking tools should be used as dust/air mixtures may explode violently. Wash spill area with water until non-slippery.

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.

SECTION IX: PREPARATION

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

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