



SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **February 5, 2016**
8750 – 53rd Ave. PHONE: **780-440-4923**
Edmonton, AB T6E 5G2 FAX: **780-469-1899**

PRODUCT NAME: **XANVIS**

PRODUCT USE: Oilwell drilling fluid additive
CHEMICAL FAMILY: Xanthan gum (polysaccharide polymer) CAS #: 11138-66-2

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not controlled product under WHMIS
WORKPLACE HAZARD: **Dust explosion hazard; slip hazard when wet**

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
Glyoxal	<1.0	107-22-2	640 – 8979 mg/kg	1300-2400 mg/m ³ /4hr	Not available

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION

EYE CONTACT: Mechanical irritation due to dust.

SKIN CONTACT: May cause irritation. Prolonged contact may cause drying or chapping. The product showed no skin allergy in guinea pig testing following repeated skin exposure. Contains glyoxal, which may cause sensitization in susceptible persons.

INGESTION: Non-toxic based on available information. LD50 Oral - Rat > 5000 mg/kg. No adverse effects observed in long-term feeding study with rats (up to 1000 mg/kg/day).

INHALATION: Hygroscopic properties of the gum can form a paste or gel in the airway. Excessive inhalation of dust may cause coughing and sneezing.

CARCINOGENICITY: No information available.

TERATOGENICITY: No information available.

REPRODUCTIVE TOXICITY: No adverse effects were observed in a 3 generation reproduction study with rats (up to 500 mg/kg/day).

MUTAGENICITY: No information available.

XANVIS

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizing agents. Avoid creating dust clouds.	
CONDITIONS OF REACTIVITY:	Strong oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition produces oxides of carbon.	
HAZARDOUS POLYMERIZATION:	<input checked="" type="checkbox"/> WILL NOT OCCUR	<input type="checkbox"/> MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Dust masks recommended.
VENTILATION:	General mechanical sufficient for normal conditions.
PROTECTIVE GLOVES:	Suggest impervious gloves.
EYE PROTECTION:	Safety glasses or goggles for dusty environments.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Ensure eyewash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Product may form combustible dust-air mixtures. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid conditions that generate airborne dust in handling, transfer and clean-up. Keep away from heat, flame, sparks and other ignition sources. Avoid emptying package in, or near, flammable vapours. Static charges may cause flash fire. Remove material from eyes, skin and clothing. Launder contaminated clothing before reuse. Store in a cool, dry area away from oxidizers.

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

Use appropriate protective equipment. Avoid creating dust clouds. Product is extremely slippery when wet. Sweep up or vacuum to collect. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Thoroughly flush spill area with water until non-slippery.

WASTE DISPOSAL METHOD

Dispose/landfill in accordance with federal, provincial and local regulations. Uncontaminated material is suitable for landfill disposal in most locations. Check with local operator. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

XANVIS

SECTION IX: PREPARATION

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

DATE ISSUED: **February 5, 2016**
SUPERSEDES: **February 5, 2013**
BY: Regulatory Affairs
PHONE: 780-440-4923