

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **February 18, 2016**
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PRODUCT NAME: **OILGEL 3000**

PRODUCT USE: Oilwell drilling fluid additive
 CHEMICAL FAMILY: Organophilic clay CAS #: Not available

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A
 WORKPLACE HAZARD: Long-term inhalation may cause cancer; may form flammable or explosive dust clouds

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
Quartz; crystalline silica	1-5	14808-60-7	Not available	Not available	0.025 mg/m3

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION
 EYE CONTACT: Mechanical irritant.
 SKIN CONTACT: No effects expected.
 INGESTION: Low oral toxicity. No effects expected.
 INHALATION: May cause irritation of the upper respiratory tract. This product contains crystalline silica. Breathing silica containing dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Chronic inhalation may cause silicosis, a progressive, disabling and sometimes fatal lung disease. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease.

CARCINOGENICITY:	This product is not listed by ACGIH, IARC, NTP or OSHA. Crystalline silica, when inhaled from occupational sources, is considered as a human carcinogen by IARC (Class 1) and by NTP. ACGIH classifies crystalline silica, quartz, as a suspected human carcinogen (A2).
TERATOGENICITY:	No information available. No adverse reproductive effects are anticipated.
REPRODUCTIVE TOXICITY:	No information available. No adverse reproductive effects are anticipated.
MUTAGENICITY:	Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.
SYNERGISTIC PRODUCTS:	None known.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT:	Wash with soap and water. If irritation persists, or develops, seek medical attention.
EYE CONTACT:	Flush with gently flowing warm water until particles are removed and irritation ceases. If irritation persists, contact a physician.
INGESTION:	If large amounts ingested, obtain medical attention.
INHALATION:	Move to area free from dust. If breathing difficulties continue, obtain medical attention. Inhalation may aggravate existing respiratory illness.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Pale grey to buff powder; no odour	
SPECIFIC GRAVITY:	Not available	
BOILING POINT (°C):	Not available	
MELTING POINT (°C):	Not available	
SOLUBILITY IN WATER:	Insoluble	pH: Not available
PERCENT VOLATILE BY VOLUME:	Not applicable	
EVAPORATION RATE:	Not applicable	
VAPOUR PRESSURE (mmHg):	Not applicable	
VAPOUR DENSITY (air = 1):	Not applicable	
BULK DENSITY:	1.7 g/cm ³	

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Does not flash (organic dust).	
FLAMMABLE LIMITS:	UEL: No upper limit	LEL: 126 g/cm ³
EXTINGUISHING MEDIA:	Use media suitable for surrounding materials and packaging.	
SPECIAL FIRE FIGHTING PROCEDURES:	Control dust cloud formation. Self-contained breathing apparatus required for firefighting personnel.	

UNUSUAL FIRE AND EXPLOSION HAZARDS: Normal precautions for organic dusts should be provided. Avoid dust concentrations above the lower explosive limit. Avoid dust contact with sources of ignition.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, oxides of nitrogen, HCl gas.

SECTION VII: REACTIVITY DATA

STABILITY: STABLE UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID): Avoid oxidizing agents and ignition sources.
CONDITIONS OF REACTIVITY: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: No information available.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH approved dust masks or respirators for silica bearing dust.

VENTILATION: Use local exhaust ventilation, process enclosure or other engineering controls to maintain PEL's/TLV's

PROTECTIVE GLOVES: Personal preference.

EYE PROTECTION: Safety glasses or goggles recommended.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Ensure eyewash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid creating dust. Avoid breathing dust; wear an approved respirator. Practice reasonable caution and personal cleanliness. Avoid eye contact. Launder contaminated clothing before reuse. Slippery when wet. Store in cool, dry area. Empty packages contain residual hazardous material and should be handled as if full.

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

Use appropriate safety equipment. Avoid breathing dust; wear an approved respirator. Vacuum up, if possible, to avoid generating airborne dust. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Do not flush with water; becomes slippery when wet.

WASTE DISPOSAL METHOD

Dispose of 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. May be disposed of as an inert solid in a sanitary landfill in some locations.

SECTION IX: PREPARATION

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

DATE ISSUED: **February 18, 2016**
SUPERSEDES: **February 25, 2013**
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