

**SECTION I: IDENTIFICATION OF PRODUCT**

COMPANY: **Diversity Technologies Corp.** DATE: **June 29, 2015**  
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PRODUCT NAME: **Ultraseal (C, Plus, XP)**

PRODUCT USE: Oilwell drilling fluid additive  
CHEMICAL FAMILY: Organic cellulose fibres CAS #: Mixture

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)**

WHMIS CLASSIFICATION: Not applicable  
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 <sub>50</sub> Oral-Rat | LC <sub>50</sub> Inhal-Rat | ACGIH-TLV                               |
|----------------------------|---------|------------|---------------------------|----------------------------|---|
| Silica, crystalline quartz | 0 - 0.1 | 14808-60-7 | Not available             | Not available              | 0.025 mg/m <sup>3</sup><br>(respirable) |

**SECTION III: HEALTH HAZARDS**

ROUTE OF ENTRY:  EYE CONTACT  SKIN CONTACT  INHALATION  INGESTION

EYE CONTACT: May cause mechanical irritation and/or damage.

SKIN CONTACT: Long term contact may result in skin rash and itching due to fibrous nature of the material.

INGESTION: No effects expected.

INHALATION: May result in irritation of throat and nasal passages due to dust. This product may contain trace quantities of crystalline silica (<0.1%). 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:       | ULTRASEAL is not listed by ACGIH, IARC, NTP or OSHA. This product may contain trace quantities of crystalline silica (<0.1%). 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.  |
| REPRODUCTIVE TOXICITY: | No information available.  |
| MUTAGENICITY:          | This product may contain trace quantities of crystalline silica (<0.1%). Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.   |
| SYNERGISTIC PRODUCTS:  | No information available.  |

#### **SECTION IV: FIRST AID MEASURES**

|               |  |
|---------------|--|
| SKIN CONTACT: | If irritation develops wash with soap and water. If irritation persists consult a physician.   |
| EYE CONTACT:  | Flush with warm running water until particle(s) are removed. If irritation persists, consult a physician.  |
| INGESTION:    | Give one to two glasses of 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 as required. If breathing difficulties or distress continues obtain medical attention.     |

#### **SECTION V: PHYSICAL DATA**

|                             |                                       |
|-----------------------------|---------------------------------------|
| APPEARANCE AND ODOUR:       | Light tan fibrous powder; faint odour |
| SPECIFIC GRAVITY:           | 1.2                                   |
| BOILING POINT (°C):         | Not determined                        |
| MELTING POINT (°C):         | Not determined                        |
| SOLUBILITY IN WATER:        | Insoluble                             |
| PERCENT VOLATILE BY VOLUME: | Not applicable                        |
| EVAPORATION RATE:           | Not applicable                        |
| VAPOUR PRESSURE (mmHg):     | Not applicable                        |
| VAPOUR DENSITY (air = 1):   | Not applicable                        |
| BULK DENSITY:               | Not available                         |
|                             | pH: Not applicable                    |

#### **SECTION VI: FIRE AND EXPLOSION HAZARD DATA**

|                                   |  |
|-----------------------------------|--|
| FLASH POINT:                      | Not applicable   |
| FLAMMABLE LIMITS:                 | Not applicable   |
| EXTINGUISHING MEDIA:              | Water, water fog, chemical, CO <sub>2</sub> .                            |
| SPECIAL FIRE FIGHTING PROCEDURES: | Self-contained breathing apparatus required for fire-fighting personnel. |

UNUSUAL FIRE AND EXPLOSION HAZARDS: Particulate may accumulate static electricity. Dusts at sufficient concentrations can form explosive mixtures with air.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon.

## SECTION VII: REACTIVITY DATA

STABILITY:  STABLE  UNSTABLE

INCOMPATIBILITY (CONDITIONS TO AVOID): Avoid strong oxidizers. Avoid ignition sources.

CONDITIONS OF REACTIVITY: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

HAZARDOUS POLYMERIZATION:  WILL NOT OCCUR  MAY OCCUR

## SECTION VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Suggest dust mask; nuisance dust. Use an approved respirator with dust cartridges if TLV is exceeded.

VENTILATION: Use adequate ventilation to control concentration below recommended exposure limits.

PROTECTIVE GLOVES: Suggest gloves to protect skin from repeated exposure.

EYE PROTECTION: Suggest goggles.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Suggest long sleeved shirt and trousers to protect from exposure to dust. Ensure eye wash station and emergency shower are available.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with eyes, skin, or clothing. Avoid breathing dust. Wash thoroughly after handling. Wear protective equipment and/or garments. Launder contaminated clothing before reuse. Store in a cool, dry area in sealed containers or bags. Keep containers closed.

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

Use appropriate safety equipment. Evacuate area of all unnecessary personnel. Contain spill. Sweep up and collect uncontaminated material for repackaging. Avoid creating dust clouds. Collect contaminated material in approved containers for disposal.

### WASTE DISPOSAL METHOD

Dispose of in accordance with federal, provincial and local regulations. This product can be land-filled 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.

## **SECTION IX: PREPARATION**

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

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