

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **May 7, 2009**
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PRODUCT NAME: **Graphite**

PRODUCT USE: Oil well drilling fluid additive.
CHEMICAL FAMILY: Carbon; graphite CAS#: 7782-42-5

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A
WORKPLACE HAZARD: Materials causing other toxic effects; potential carcinogen.

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

| <u>INGREDIENT</u> | <u>% (w/w)</u> | <u>CAS NUMBER</u> | <u>LD₅₀Oral-Rat</u> | <u>LC₅₀Inhal-Rat</u> | <u>ACGIH-TLV</u> |
|----------------------------|----------------|-------------------|--------------------------------|---------------------------------|-------------------------------|
| Silica, crystalline quartz | 0-5 | 14808-60-7 | No information | No information | 0.025 mg/m³ |

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN INHALATION INGESTION
EYE CONTACT: May cause mechanical irritation.
SKIN CONTACT: May dry skin due to absorption of skin oils on fine particulate dust.
INGESTION: Not a toxic product.
INHALATION: Inhalation may cause irritation of the nose, throat and respiratory passages. Contains silica. Long-term inhalation of silica 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.

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| CARCINOGENICITY: | Crystalline silica when inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans: IARC has concluded that this chemical is carcinogenic to humans (Group 1). The ACGIH has designated this chemical as a suspected human carcinogen (A2). The US NTP has listed this chemical as a known human carcinogen. |
| TERATOGENICITY: | No information available. |
| REPRODUCTIVE TOXICITY: | No information available. |
| MUTAGENICITY: | Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro. |
| SYNERGISTIC PRODUCTS: | No information available. |

SECTION IV: FIRST AID MEASURES

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| SKIN CONTACT: | Wash with soap and water if irritation develops, at breaks and at end of workday. If irritation persists, obtain medical attention. |
| EYE CONTACT: | Flush with gently flowing warm water until particles are dislodged. If irritation persists, obtain medical attention. |
| INGESTION: | Do not induce vomiting. Rinse mouth and give one to two glasses of water to drink. 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 continues, obtain medical attention. |

SECTION V: PHYSICAL DATA

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| APPEARANCE AND ODOUR: | Dark gray powder, odourless. | |
| SPECIFIC GRAVITY: | 2.25 | |
| BOILING POINT (°C): | Not applicable | |
| MELTING POINT (°C): | Not applicable | |
| SOLUBILITY IN WATER: | Insoluble | pH: Not applicable |
| 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 | |

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

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| FLASH POINT: | Not applicable |
| FLAMMABLE LIMITS: | Not applicable |
| EXTINGUISHING MEDIA: | Water, carbon dioxide, foam or dry chemical. |
| SPECIAL FIRE FIGHTING PROCEDURES: | Self-contained breathing apparatus required for fire fighting personnel. |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: | None known. |

SECTION VII: REACTIVITY DATA

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| STABILITY: | STABLE [XX] | UNSTABLE [] |
| INCOMPATIBILITY (CONDITIONS TO AVOID): | Strong oxidizers, acids and bases. | |
| CONDITIONS OF REACTIVITY: | Contact with incompatible materials. | |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Oxides of carbon on combustion. | |
| HAZARDOUS POLYMERIZATION: | WILL NOT OCCUR [XX] | MAY OCCUR [] |

SECTION VIII: PREVENTATIVE MEASURES**SPECIAL PROTECTION INFORMATION**

| | |
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| RESPIRATORY PROTECTION: | Suggest NIOSH/MESA approved dust mask or approved respirator with filters for silica bearing dust. |
| VENTILATION: | Use local exhaust ventilation, process enclosure or other engineering controls to maintain levels of airborne dust below TLV, if necessary. |
| PROTECTIVE GLOVES: | Personal preference to prevent contact. |
| EYE PROTECTION: | Suggest safety glasses or goggles. |
| OTHER PROTECTIVE EQUIPMENT (Specify): | Suggest rubber apron or other impervious clothes. Ensure emergency eye wash station and safety shower are available. |

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Dust collectors should be used in all work areas to trap airborne dust. Wear respiratory protection to prevent inhalation. Store in a cool, dry area away from incompatibles.

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

Use appropriate safety equipment including respiratory protection. Contain spill. Sweep up or vacuum to collect. Collect uncontaminated material for repackaging. Collect contaminated material for disposal in an approved container for disposal. Flush area with water.

WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial and local regulations. Landfill is suggested; 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 CONTAINED HEREIN IS GIVEN IN GOOD FAITH,
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: May 7, 2009

BY: Product safety committee

SUPERSEDES: May 5, 2006

PHONE: 780-440-4923

**Diversity Technologies Corp. is the parent company of
Canamara-United Supply, Hollimex Products, The Drilling Depot and
Westcoast Drilling Supplies.**