

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **March 14, 2011**
8750 – 53rd Ave. PHONE: 780-468-4064
Edmonton, AB T6E 5G2 FAX: 780-469-1899

PRODUCT NAME: **Well Sand**
WELL SAND #0
WELL SAND #00N
WELL SAND #1
WELL SAND #2
WELL SAND #3

PRODUCT USE: Water well, geotechnical and geothermal sand
CHEMICAL FAMILY: Inorganic silica compound CAS #: 112926-00-8

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A
WORKPLACE HAZARD: Potential carcinogen; chronic inhalation hazard; contains free silica

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>
Amorphous silica	60 - 100	112926-00-8	Not available	Not available	10 mg/m ³
Quartz, silica	10 - 30	14808-60-7	Not available	Not available	0.025 mg/m ³ respirable fraction
Magnesium oxide	10 - 30	1344-28-1	Not available	Not available	10 mg/m ³
Calcium oxide	1 - 5	1305-78-8	Not available	Not available	2 mg/m ³
Magnesium oxide	1 - 5	1309-48-4	Not available	Not available	10 mg/m ³

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY:	[] EYE CONTACT [] SKIN [XX] INHALATION [] INGESTION
EYE CONTACT:	Mechanical irritant.
SKIN CONTACT:	Possible drying resulting in dermatitis.
INGESTION:	No adverse effects expected.
INHALATION:	Inhalation may cause irritation of the nose, throat and respiratory passages. Long-term inhalation of crystalline silica quartz 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:	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): ACGIH has designated this chemical as a suspected human carcinogen (A2): 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:	Simultaneous exposure to known carcinogens, for example, benzo(a)pyrene, can increase the carcinogenicity of crystalline silica.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT:	If irritation occurs or when shift ends, wash with soap and water until clean.
EYE CONTACT:	Flush with water until irritation ceases. If irritation persists, contact a physician.
INGESTION:	If large amounts ingested, get immediate medical attention.
INHALATION:	Move to area free from dust. If symptoms or irritation persist contact physician. Inhalation may aggravate existing respiratory illness.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	White to yellow granules; no odour
SPECIFIC GRAVITY:	Not available
BOILING POINT (°C):	Not available
MELTING POINT (°C):	Not available
SOLUBILITY IN WATER:	Not available 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: Not available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not flammable
FLAMMABLE LIMITS: Not applicable
EXTINGUISHING MEDIA: Use media suitable for surrounding materials and packaging.
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SECTION VII: REACTIVITY DATA

STABILITY: STABLE [XX] UNSTABLE []
INCOMPATIBILITY: None. Soluble in hydrofluoric acid.
(CONDITIONS TO AVOID):
CONDITIONS OF REACTIVITY: Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS: None.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE 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: Abrasion resistant gloves recommended.
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

Use NIOSH/MSHA respirators approved for silica bearing dust. Practice reasonable caution and personal cleanliness. Avoid eye contact. Store in a cool dry area. Avoid dust generation during use.

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

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.

WASTE DISPOSAL METHOD

Dispose/landfill 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 CONTAINED HEREIN IS GIVEN IN GOOD FAITH,
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: **March 14, 2011** BY: Product safety committee
SUPERSEDES: **March 18, 2008** PHONE: 780-440-4923

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