

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **January 25, 2009**  
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PRODUCT NAME: **Gypsum**

PRODUCT USE: Land Reclamation; drilling fluid additive  
CHEMICAL FAMILY: Inorganic calcium salt (calcium sulphate) CAS # 7778-18-9

## WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not a controlled product under WHMIS  
WORKPLACE HAZARD: Not applicable

## 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>LD<sub>50</sub> Oral-Rat</u>	<u>LC<sub>50</sub> Inhal-Rat</u>	<u>ACGIH-TLV</u>
Calcium sulfate	70-100	7778-18-9	Not available	Not available	10 mg/m <sup>3</sup>

Small amounts (less than reportable) quantities of respirable crystalline silica are present in this product.

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY:  EYE CONTACT  SKIN  INHALATION  INGESTION  
EYE CONTACT: May cause mechanical irritation.  
SKIN CONTACT: Prolonged contact may cause skin irritation.  
INGESTION: No toxic effects expected. Gypsum will absorb moisture and clumps may form and create blockages in the stomach.  
INHALATION: Gypsum will absorb moisture quickly causing clumps in the nasal passages and upper respiratory tract.  
CARCINOGENICITY: No information available.  
TERATOGENICITY: No information available.

REPRODUCTIVE TOXICITY: No information available.  
MUTAGENICITY: No information available.  
SYNERGISTIC PRODUCTS: No information available.

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

SKIN CONTACT: Remove contaminated clothing and wash exposed area thoroughly with soap and water.  
EYE CONTACT: Flush with gently flowing warm water for 5 minutes or until irritation ceases. If irritation persists obtain medical attention.  
INGESTION: Do not induce vomiting. Rinse mouth with water. Have victim drink 8 to 10 oz of water to dilute material. If irritation, or discomfort occurs, obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.  
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 grey powder; odourless  
SPECIFIC GRAVITY: 2.96  
BOILING POINT (°C): Not applicable (decomposes)  
MELTING POINT (°C): 1559  
SOLUBILITY IN WATER: 0.262 g/100 mL          pH: Not available  
PERCENT VOLATILE BY VOLUME: 0  
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 determined  
EXTINGUISHING MEDIA: Use media appropriate for packaging and surrounding materials.  
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire fighting personnel. Move containers from fire area if possible.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known. Gypsum does not support combustion.

**SECTION VII: REACTIVITY DATA**

STABILITY:	STABLE [XX]	UNSTABLE [ ]
INCOMPATIBILITY (CONDITIONS TO AVOID):	Reacts violently with aluminum when heated. Mixtures of calcium sulphate and phosphorus ignite at high temperatures.	
CONDITIONS OF REACTIVITY:	Not available	
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal oxidative decomposition can produce toxic fumes of sulphur oxides.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR [ ]

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

RESPIRATORY PROTECTION:	Suggest NIOSH/MESA approved dust mask for levels of airborne dust below TLV. Use approved respirator with dust cartridges for levels of airborne dust greater than TLV.
VENTILATION:	Use in well ventilated area. Use local exhaust ventilation, process enclosure or other engineering controls to maintain dust levels below TLV.
PROTECTIVE GLOVES:	None required.
EYE PROTECTION:	Suggest goggles; nuisance dust.
OTHER PROTECTIVE EQUIPMENT (Specify):	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. Wash thoroughly after handling, at breaks and before going off shift. Launder contaminated clothing before reuse. 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. Vacuum or sweep-up. Avoid creating dust on cleanup. Collect contaminated material in approved containers for disposal. Collect uncontaminated material for repackaging. Flush spill area with water.

**WASTE DISPOSAL METHOD**

Dispose in accordance with federal, provincial and local regulations. This material is suitable for landfills in many 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. Empty packages must be disposed of, or recycled, in accordance with local regulations.

**SECTION IX: PREPARATION**

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH,  
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED:	January 25, 2009	BY:	Product safety committee
SUPERSEDES:	January 25, 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.**