



### SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **October 22, 2012**  
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PRODUCT NAME: **SALT MUD (Sea Mud/Salt Gel)**

PRODUCT USE: Oil-well drilling fluid additive.

CHEMICAL FAMILY: Sepiolite clay CAS #: 63800-37-3

### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A  
 WORKPLACE HAZARD: Potential carcinogen; contains crystalline 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

INGREDIENT	% (w/w)	CAS NUMBER	LD <sub>50</sub> Oral-Rat	LC <sub>50</sub> Inhal-Rat	ACGIH-TLV
Silica, crystalline quartz	Unknown	14808-60-7	Not available	Not available	0.025 mg/m <sup>3</sup>

### SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: D EYE CONTACT D SKIN CONTACT INHALATION D INGESTION  
 EYE CONTACT: Mechanical irritant.  
 SKIN CONTACT: Possible drying resulting in dermatitis.  
 INGESTION: No adverse effect expected.  
 INHALATION: Inhalation may cause irritation of the nose, throat and respiratory passages. Long-term 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: Crystalline silica when inhaled in the form of quartz or crystobalite from occupational sources is carcinogenic to humans: The 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

SKIN CONTACT: If irritation occurs, or at end of shift, wash thoroughly with soap and water. If irritation persists, obtain medical attention.

EYE CONTACT: Flush with gently flowing warm water until particles are removed. If irritation persists, obtain medical attention.

INGESTION: No adverse effects expected. If symptoms develop, or if large amounts are ingested, obtain medical attention.

INHALATION: Move to area free from dust. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues, obtain medical attention.

## SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Grey or tan powder; earthy odour when wet	
SPECIFIC GRAVITY:	1.9 - 2.4	
BOILING POINT (°C):	>537	
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 applicable	

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Non flammable
FLAMMABLE LIMITS:	None
EXTINGUISHING MEDIA:	Use media suitable for packaging and surrounding materials.
SPECIAL FIRE FIGHTING PROCEDURES:	Self contained breathing apparatus required for fire fighting personnel. Becomes very slippery when wet.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known.
HAZARDOUS COMBUSTION PRODUCTS:	No information available.

## SECTION VII: REACTIVITY DATA

STABILITY:	STABLE	D UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	None known.	
CONDITIONS OF REACTIVITY:	Not known.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Not known.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR	D MAY OCCUR

## SECTION VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	NIOSH/MESA approved respirators for silica bearing dust.
VENTILATION:	Use local exhaust ventilation, process enclosure or other engineering controls to maintain airborne levels below PEL's/TLV's.
PROTECTIVE GLOVES:	Generally not necessary; personal preference.
EYE PROTECTION:	Suggest safety glasses or goggles be worn.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Ensure eye wash station and emergency shower are available.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid breathing dust; wear an approved respirator. Practice reasonable caution and personal cleanliness. Avoid eye contact. Use dustless system for handling, storage, and clean up. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Launder contaminated clothing before reuse. Material may become very slippery when wet. Store in a cool, dry area. Empty packaging contains residual hazardous material and should be handled as if full.

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

Use suitable protective equipment including respiratory protection. Avoid creating dust cloud, vacuum if possible. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Spilled material may become very slippery when wet.

### WASTE DISPOSAL METHOD

Dispose of in accordance with federal, provincial and local regulations. Material can be land filled in most areas; 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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