

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **October 8, 2015**
8750 – 53rd Ave. PHONE: **780-440-4923**
Edmonton, AB T6E 5G2 FAX: **780-469-1899**

PRODUCT NAME: **Barite**

PRODUCT USE: Drilling fluid additive.
CHEMICAL FAMILY: Inorganic barium salt CAS #: 7727-43-7

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not WHMIS controlled
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 ₅₀ Oral-Rat	LC ₅₀ Inhal-Rat	ACGIH-TLV
Barium sulfate	70-100	7727-43-7	Not available	Not available	10 mg/m ³

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION

EYE CONTACT: May cause mechanical irritation.

SKIN CONTACT: No adverse effect expected.

INGESTION: No adverse effect expected.

INHALATION: May cause irritation of the 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:	If irritation occurs, or when shift ends, wash with soap and water until clean. If irritation persists, obtain medical attention.
EYE CONTACT:	Flush eyes with gently flowing warm water until particles are dislodged. If irritation persists, obtain medical attention.
INGESTION:	If fully conscious, give large quantity of water. Obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
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:	Brown to grey powder; dirt/dust like odour
SPECIFIC GRAVITY:	4.2 to 4.4
BOILING POINT (°C):	Not available
MELTING POINT (°C):	1580
SOLUBILITY IN WATER:	Insoluble pH: 7.0 – 9.5
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 packaging and surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire-fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None.
HAZARDOUS COMBUSTION PRODUCTS:	No information available.

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	None known.	
CONDITIONS OF REACTIVITY:	Not known.	
HAZARDOUS DECOMPOSITION PRODUCTS:	None known.	

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Approved dust mask required for dust levels below TLV. Use approved respirator with dust cartridges if airborne concentration exceeds TLV.

VENTILATION:

Use local exhaust ventilation, process enclosure or other engineering controls to maintain concentration of airborne dust below TLV.

PROTECTIVE GLOVES:

Personal preference.

EYE PROTECTION:

Suggest goggles or safety glasses with side-shields 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. Practice reasonable caution and personal cleanliness. Launder contaminated clothing before reuse. Store in a cool dry area.

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

Use appropriate safety equipment. Collect uncontaminated material for repackaging. Collect contaminated material in appropriate containers for disposal.

WASTE DISPOSAL METHOD

Dispose 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:

October 8, 2015

SUPERSEDES:

October 12, 2012

BY:

Regulatory Affairs

PHONE:

780-440-4923