

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **May 5, 2016**
8750 – 53rd Ave. PHONE: **780-440-4923**
Edmonton, AB T6E 5G2 FAX: **780-469-1899**

PRODUCT NAME: **Sodium Bicarbonate**

PRODUCT USE: Oilwell drilling fluid additive
CHEMICAL FAMILY: Inorganic sodium salt CAS #: 144-55-8

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

INGREDIENT	% (w/w)	CAS NUMBER	LD ₅₀ Oral-Rat	LC ₅₀ Inhal-Rat	ACGIH-TLV
Contains no WHMIS controlled ingredients.					

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION

EYE CONTACT: May cause mechanical irritation.

SKIN CONTACT: May cause mild irritation

INGESTION: Mildly toxic by ingestion. May cause nausea, vomiting, and abdominal pains. LD₅₀ (oral, rat) = 4300 mg/kg (20% slurry).

INHALATION: May cause coughing and mild upper respiratory tract irritation.

CARCINOGENICITY: Not listed by IARC, NTP, OSHA or ACGIH.

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:	Wash with plenty of soap and water. If irritation persists obtain medical attention.
EYE CONTACT:	Flush with gently flowing warm water until irritation ceases. Seek medical attention if irritation persists.
INGESTION:	Rinse mouth and give two to three glasses of water to drink. If any discomfort persists, seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing victim.
INHALATION:	Move victim to fresh air. Give oxygen or apply artificial respiration if required. If breathing difficulties or distress continues obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	White granular powder; odourless
SPECIFIC GRAVITY:	2.22
BOILING POINT (°C):	Not applicable
MELTING POINT (°C):	Decomposes
SOLUBILITY IN WATER:	96 g/L @ 20°C
PERCENT VOLATILE BY VOLUME:	Not available
EVAPORATION RATE:	Not applicable
VAPOUR PRESSURE (mmHg):	Not applicable
VAPOUR DENSITY (air = 1):	Not applicable
BULK DENSITY:	0.88 kg/L
	pH: 8.3 (1% wt/wt)

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not combustible
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 known.
HAZARDOUS COMBUSTION PRODUCTS:	No information available.

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	Avoid contact with acids except under controlled conditions.	
CONDITIONS OF REACTIVITY:	Contact with acids.	

HAZARDOUS DECOMPOSITION PRODUCTS: None.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR MAY OCCUR

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Suggest NIOSH/MESA approved dust mask.
VENTILATION: As required to prevent high dust concentration.
PROTECTIVE GLOVES: Suggest rubber.
EYE PROTECTION: Safety glasses or goggles suggested.
OTHER PROTECTIVE EQUIPMENT (SPECIFY): Full body covering protective clothing suggested.
Ensure eye-wash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Store in a cool, dry area away from acids. Long-term storage may result in caking.

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

Use appropriate safety equipment. Sweep up and shovel to collect. Avoid creating dust while cleaning. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Wash spill area with water.

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 contains herein is given in good faith, but no warranty, expressed or implied, is made.

DATE ISSUED: **May 5, 2016**
SUPERSEDES: **May 29, 2013**
BY: Regulatory Affairs
PHONE: 780-440-4923