

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **May 31, 2010**  
**8750 – 53<sup>rd</sup> Ave.** PHONE: 780-468-4064  
**Edmonton, AB T6E 5G2** FAX: 780-469-1899

PRODUCT NAME: **Sodium Bicarbonate**

PRODUCT USE: Oil well 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

<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>
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Contains no WHMIS controlled ingredients.

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY:  EYE CONTACT  SKIN  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. LD<sub>50</sub> (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**

<b>APPEARANCE AND ODOUR:</b>	White granular powder; odourless
<b>SPECIFIC GRAVITY:</b>	2.20
<b>BOILING POINT (°C):</b>	Not applicable
<b>MELTING POINT (°C):</b>	Decomposes
<b>SOLUBILITY IN WATER:</b>	9.0% wt/wt @ 20°C      pH: 8.3 (1% wt/wt)
<b>PERCENT VOLATILE BY VOLUME:</b>	Not available
<b>EVAPORATION RATE:</b>	Not applicable
<b>VAPOUR PRESSURE (mmHg):</b>	Not applicable
<b>VAPOUR DENSITY (air = 1):</b>	Not applicable
<b>BULK DENSITY:</b>	0.88 kg/L

#### **SECTION VI: FIRE AND EXPLOSION HAZARD DATA**

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

**SECTION VII: REACTIVITY DATA**

STABILITY:	STABLE [XX]	UNSTABLE [XX]
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 [XX]	MAY OCCUR [XX]

**SECTION VIII: PREVENTATIVE 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 CONTAINED HEREIN IS GIVEN IN GOOD FAITH,  
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: **May 31, 2010** BY: Product safety committee  
SUPERSEDES: **June 3, 2007** PHONE: 780-440-4923

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