

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **Nov. 29, 2007**  
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PRODUCT NAME: **Activated Carbon**

PRODUCT USE: Oilwell drilling fluid additive  
CHEMICAL FAMILY: Carbon, charcoal CAS#: 7440-44-0

## WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not a controlled product under WHMIS  
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

<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>
Carbon powdered	100	7440-44-0	>10 g/kg	>64.4 mg/L	10mg/m <sup>3</sup>

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [ ] EYE CONTACT [ ] SKIN [XX] INHALATION [ ] INGESTION  
EYE CONTACT: May cause mechanical irritation.  
SKIN CONTACT: No effects expected through contact or absorption.  
INGESTION: Not toxic by ingestion.  
INHALATION: May cause irritation of nasal and bronchial passages. Symptoms include sneezing and coughing.  
CARCINOGENICITY: Not considered to be carcinogenic as per IARC, NTP or OSHA.  
TERATOGENICITY: No information available.  
REPRODUCTIVE TOXICITY: No information available.

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

#### SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Wash with soap and water. If irritation persists, obtain medical attention. Remove and launder contaminated clothing before reuse.  
EYE CONTACT: Flush with running water for 15 minutes. If irritation persists consult a physician.  
INGESTION: If victim is fully conscious, give one to two glasses of water. If symptoms develop obtain medical attention. Never give anything by mouth to an unconscious or convulsing victim.  
INHALATION: Move to fresh air. Apply oxygen or artificial respiration as required. Obtain immediate medical attention.

#### SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Black granular powder; odourless
SPECIFIC GRAVITY:	2.25
BOILING POINT (°C):	4200
MELTING POINT (°C):	3652 (sublimes)
SOLUBILITY IN WATER:	Negligible                      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:	400-600 kg/m <sup>3</sup>

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

FLASH POINT:	Not flammable
FLAMMABLE LIMITS:	Not applicable
EXTINGUISHING MEDIA:	Use water spray, alcohol foam, dry chemical or CO <sub>2</sub> .
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Non-combustible under normal circumstances. Once ignited, the fire generally burns slowly with a dull glow and may be difficult to detect. Auto-ignition temperature > 350°C. Airborne dust may create an explosion hazard.

**SECTION VII: REACTIVITY DATA**

STABILITY:	STABLE [XX]	UNSTABLE [ ]
INCOMPATIBILITY (CONDITIONS TO AVOID):	Incompatible with strong oxidizers such as ozone, liquid oxygen, chlorine, potassium permanganate, etc. Avoid creating dust clouds. Keep away from ignition sources.	
CONDITIONS OF REACTIVITY:	Contact with incompatibles.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR [ ]

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

RESPIRATORY PROTECTION:	Suggest NIOSH/MESA approved dust mask
VENTILATION:	Use in well ventilated area. Use engineering controls to maintain dust levels below TLV where necessary.
PROTECTIVE GLOVES:	Suggest plastic or rubber.
EYE PROTECTION:	Safety glasses or goggles should be worn at all times when handling this material.
OTHER PROTECTIVE EQUIPMENT (Specify):	Suggest protective clothing to prevent skin contact. Ensure eyewash station and emergency shower are available.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials and ignition sources. Use good industrial hygiene and housekeeping practices. Avoid creating dust. Wash thoroughly after handling. Avoid harmful exposure.

Caution: Wet activated carbon removes oxygen from air causing a severe hazard to workers inside confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken.

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

Use appropriate safety equipment. Eliminate ignition sources. Collect by sweeping; avoiding creation of a dust cloud. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush 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: November 29, 2007 BY: Product safety committee  
SUPERSEDES: December 3, 2004 PHONE: 780-440-4923

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