



## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **January 5, 2016**  
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PRODUCT NAME: **2K7 Water Soluble Pak**

PRODUCT USE: Oilwell drilling fluid biocide  
 CHEMICAL FAMILY: 2-Bromo-2-Nitropropane-1,3-Diol CAS #: 52-51-7

## WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: B4; D1B  
 Covered under PMRA #21790  
 WORKPLACE HAZARD: Flammable solid; toxic; skin and eye irritant

## TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: 2-Bromo-2-Nitropropane-1,3-Diol  
 TDG CLASSIFICATION: 4.1  
 UN NUMBER (PIN): UN3241  
 PACKING GROUP: III

## SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	% (w/w)	CAS NUMBER	LD <sub>50</sub> Oral-Rat	LC <sub>50</sub> Inhal-Rat	ACGIH-TLV
2-Bromo-2-nitropropane-1,3-diol	98 min	52-51-7	307mg/kg	Not determined	Not established

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY:  EYE CONTACT  SKIN CONTACT  INHALATION  INGESTION  
 EYE CONTACT: The solid and concentrated solutions will irritate the eyes.  
 SKIN CONTACT: The solid and concentrated solutions will irritate the skin. May cause allergic reaction in some cases.  
 INGESTION: Material is toxic if ingested in sufficient quantities. Symptoms may include nausea, dizziness, central nervous system effects and possibly death.  
 INHALATION: Inhalation of dust may cause irritation of the bronchial passages and lungs. May be absorbed through the bronchial and lung tissues.  
 CARCINOGENICITY: Not carcinogenic on skin painting in mice, or when given in the drinking water to rats.  
 TERATOGENICITY: Not teratogenic or embryotoxic in rats and rabbits.



PRODUCTS:

**SECTION VII: REACTIVITY DATA**

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizers. At temperatures above 140°C the product will decompose exothermically. The decomposition temperature is significantly lowered in the presence of caustics to an extent proportional to the amount of caustic present.	
CONDITIONS OF REACTIVITY:	Heat.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic hydrogen bromide gas and oxides of nitrogen upon decomposition.	
HAZARDOUS POLYMERIZATION:	<input checked="" type="checkbox"/> WILL NOT OCCUR	<input type="checkbox"/> MAY OCCUR

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

RESPIRATORY PROTECTION:	Approved respirator or dust mask where dust, mist, or spray may be generated. Manufacturer in-house exposure level = 0.5 mg/m <sup>3</sup> .
VENTILATION:	Local exhaust recommended if PEL is exceeded.
PROTECTIVE GLOVES:	Chemical resistant gloves; plastic or rubber.
EYE PROTECTION:	Goggles and /or full-face shield. Do not wear contact lenses.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Impervious protective clothing and chemical resistant safety shoes. Ensure emergency shower and eye wash station are available.

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

Avoid contact with skin and avoid breathing dust. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking, or using bathroom. Any protective clothing, clothing or shoes, which become contaminated with this product, should be removed immediately and thoroughly laundered before reuse.

Store in closed, properly labeled containers indoors in a dry area away from oxidizing materials, alkaline materials, sources of heat or ignition, and away from food, drink and animal feeding stuffs. Do not remove or deface labels or tags. Slowly add this product to water with constant stirring and avoid splashing. Full protective equipment as outlined above should be worn. Do not enter confined spaces such as tanks or pits without following proper entry procedures.

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

Cleanup personnel must wear proper protective equipment. Reclaim into closed containers for normal use or disposal. Remaining material may be swept up or vacuumed up. Avoid creating dust cloud. Remove the spillage for proper disposal. Clean the area with detergent and water. Collect washing for proper disposal. Prevent run off into ground or surface water or sewers.

Inform Environment Canada at office of Conservation and Protection Service of any spills of this material no matter what quantity. Notify Alberta Public Safety Services (Edmonton: 422-9600 or 1-800-272-9600) of any uncontrolled spills of this material.

**WASTE DISPOSAL METHOD**

Burn in a licensed incinerator fitted with an after burner and efficient air scrubbing device or bury in a licensed chemical landfill site, in accordance with federal, provincial, and local disposal regulations and in accordance with PMRA regulations covering the licensing and use of this product. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty packages that have not been cleaned and purged must be recycled or disposed of in accordance with local hazardous waste regulations.

**SECTION IX: PREPARATION**

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

DATE ISSUED: **January 5, 2016**  
SUPERSEDES: **January 31, 2013**  
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