

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **June 27, 2010**  
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PRODUCT NAME: **ALKAPAM A Series**  
**Alkapam A-1103D**  
**Alkapam A-1703**  
**Alkapam A-1703D**

PRODUCT USE: Drilling fluid additive.  
CHEMICAL FAMILY: Anionic water soluble polymer CAS#: 25085-02-3

## 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>
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Contains no WHMIS controlled ingredients.

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [ ] EYE CONTACT [ ] SKIN [XX] INHALATION [ ] INGESTION  
EYE CONTACT: May cause mechanical irritation.  
SKIN CONTACT: Prolonged contact may cause slight irritation or dermatitis in some individuals.  
INGESTION: No adverse effects expected. Product may swell in throat causing choking.  
INHALATION: Dust may cause upper respiratory tract irritation.  
CARCINOGENICITY: No information available.

TERATOGENICITY: No information available.  
REPRODUCTIVE No information available.  
TOXICITY:  
MUTAGENICITY: No information available.  
SYNERGISTIC No information available.  
PRODUCTS:

#### SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Immediately wash with plenty of soap and water. If irritation persists obtain medical attention. Remove contaminated clothing and shoes and clean before reuse.

EYE CONTACT: Flush eyes with gently flowing warm water until particle(s) are removed. If irritation persists, obtain medical attention.

INGESTION: Do not induce vomiting. Dilute by giving two glasses of water. Obtain medical attention. Never give anything by mouth to an unconscious or convulsing person.

INHALATION: Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues, obtain medical attention

#### SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	White granular solid: slight odour
SPECIFIC GRAVITY:	Not determined
BOILING POINT (°C):	Not applicable
MELTING POINT (°C):	Not determined
SOLUBILITY IN WATER:	Soluble pH: 4-9 @ 5g/L
PERCENT VOLATILE BY VOLUME:	Not determined
EVAPORATION RATE:	Not determined
VAPOUR PRESSURE (mmHg):	Not determined
VAPOUR DENSITY (air = 1):	Not determined
BULK DENSITY:	Not available

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

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Dry chemical, foam, CO<sub>2</sub>, alcohol foam, universal foam, and water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire fighting personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Will burn under fire conditions. If dusted this product may be an explosion hazard.

**SECTION VII: REACTIVITY DATA**

STABILITY:	STABLE [XX]	UNSTABLE [ ]
INCOMPATIBILITY (CONDITIONS TO AVOID):	Avoid contact with strong oxidizing agents. Avoid dusting conditions in presence of ignition sources.	
CONDITIONS OF REACTIVITY:		
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of nitrogen and oxides of carbon on combustion.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR [ ]

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

RESPIRATORY PROTECTION:	Suggest NIOSH/MESA approved dust mask. Use approved respirator with dust cartridge if TLV is exceeded.
VENTILATION:	Use local exhaust, process enclosure or other engineering controls to maintain dust level below TLV.
PROTECTIVE GLOVES:	Suggest plastic or rubber.
EYE PROTECTION:	Safety glasses or goggles should be worn when handling this material.
OTHER PROTECTIVE EQUIPMENT (Specify):	Suggest rubber apron. Ensure eyewash station and emergency shower are available.

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

Avoid breathing dusts. Avoid direct or prolonged contact with skin and eyes. Use nonsparking tools and ground/bonded equipment and containers when transferring. Avoid creating dusts, as this product is pyrophoric in powder form. Any containers or equipment used should be decontaminated immediately after use. Store in a cool, dry area away from oxidizers and ignition sources.

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

Use appropriate safety equipment. Eliminate ignition sources. Sweep up and place in an appropriate closed container. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Clean up residual material by washing area with water.

**WASTE DISPOSAL METHOD**

Dispose/incinerate in accordance with federal, provincial and local regulations. This product may be suitable for disposal by land fill; check with local operator. 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: June 27, 2010

BY: Product safety committee

SUPERSEDES: July 28, 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.**