

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **March 27, 2007**
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PRODUCT NAME: **Calcium Chloride Flake (77%)**
Calcium chloride dehydrate

PRODUCT USE: Oil well drilling fluid & cement additive.
CHEMICAL FAMILY: Alkaline earth halide CAS#: 10035-04-8

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2B
WORKPLACE HAZARD: Skin & eye irritant

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>LD₅₀Oral-Rat</u>	<u>LC₅₀Inhal-Rat</u>	<u>ACGIH-TLV</u>
Calcium chloride	77	10043-52-4	1000 mg/kg	Not available	Not established

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN INHALATION INGESTION
EYE CONTACT: Flakes may cause slight eye irritation. Dusts may cause severe irritation with corneal injury. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns.
SKIN CONTACT: May cause skin irritation. Prolonged contact when moisture is present may result in superficial burns. Contact with abraded skin or cuts can cause severe necrosis.

INGESTION:	Low in toxicity. May irritate gastrointestinal tract and cause nausea and vomiting.
INHALATION:	Dust or mist (from solutions) may cause temporary irritation of the nose and throat. Severe exposures may cause nasal discharge and coughing. Severe exposures are unlikely to cause serious or irreversible harmful effects to the lung, or produce toxic effects elsewhere in the body.
CARCINOGENICITY:	Not considered a carcinogen.
TERATOGENICITY:	No evidence of teratogenicity.
REPRODUCTIVE TOXICITY:	No evidence of reproductive toxicity.
MUTAGENICITY:	Not considered a mutagen.
SYNERGISTIC PRODUCTS:	No known synergistic materials.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT:	Immediately wash with lots of soap and water. Remove contaminated clothing. If irritation persists, or burns develop, obtain medical attention.
EYE CONTACT:	Immediately flush eyes with gently flowing water for 15 minutes, or until irritation ceases; lifting the eyelids to ensure thorough flushing. Obtain medical attention when flushing period is completed.
INGESTION:	Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 mL (8 to 10 oz.) of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical advice immediately.
INHALATION:	Move to fresh air. Give oxygen or artificial respiration if required. If breathing difficulties, or distress, continue obtain medical attention

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Small white flakes; odourless
SPECIFIC GRAVITY:	1.85 @ 25°C
BOILING POINT (°C):	175
MELTING POINT (°C):	~174
SOLUBILITY IN WATER:	97.7 g/100mL @ 0°C pH: 7 to 10
PERCENT VOLATILE BY VOLUME:	Not applicable
EVAPORATION RATE:	Not applicable
VAPOUR PRESSURE (mmHg):	1.0 @ 20°C
VAPOUR DENSITY (air = 1):	Not applicable
BULK DENSITY:	Not available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not applicable
FLAMMABLE LIMITS:	Not applicable
EXTINGUISHING MEDIA:	Use extinguishing media appropriate for packaging and surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Product will not burn. Avoid use of water for fire fighting, as product will produce considerable heat when dissolving in water.

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [XX]	UNSTABLE []
INCOMPATIBILITY (CONDITIONS TO AVOID):	Corrosive to some metals. Avoid contact with metals such as brass, mild steel, aluminum, or ferrous metals. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with sulfuric acid. May react violently with boric and calcium oxide. Heat is generated when mixed with water; spattering or boiling can occur. Absorbs moisture from the air.	
CONDITIONS OF REACTIVITY:	Contact with incompatibles.	
HAZARDOUS DECOMPOSITION PRODUCTS:	None known.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR []

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

RESPIRATORY PROTECTION:	NIOSH/MESA approved dust mask or respirator with dust cartridges recommended.
VENTILATION:	Use local exhaust ventilation, process enclosure or other engineering controls as required to keep airborne concentrations of dust below TLV.
PROTECTIVE GLOVES:	Rubber or plastic gloves suggested.
EYE PROTECTION:	Safety glasses with side-shields at minimum. Do not wear contact lenses.
OTHER PROTECTIVE EQUIPMENT (Specify):	Ensure eyewash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash thoroughly after handling. **Laundry contaminated clothing before reuse.** Store in a cool, dry place away from incompatibles. Prolonged storage may cause product to cake and become wet from atmospheric moisture. Empty packages contain residual hazardous material and should be handled as if full.

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

Use appropriate safety equipment. Most spills can be cleaned up using brooms and shovels. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Flush spill area with copious quantities of water. Prevent water from entering sewers and watercourses.

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: **March 27, 2007**

BY: Product safety committee

SUPERSEDES: **April 5, 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.**