

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **January 5, 2016**
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PRODUCT NAME: **CAN-BREAK ECA**

PRODUCT USE: Enzyme breaker for water-based drilling fluids.
 CHEMICAL FAMILY: Mixture CAS #: Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: E
 WORKPLACE HAZARD: Corrosive solid; dust explosion hazard

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Sulfamic acid mixture
 TDG CLASSIFICATION: 8
 UN NUMBER (PIN): UN2967
 PACKING GROUP: III

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	% (w/w)	CAS NUMBER	LD ₅₀ Oral-Rat	LC ₅₀ Inhal-Rat	ACGIH-TLV
Sulfamic acid	10-30	5329-14-6	3160 mg/kg	Not available	Not established

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN CONTACT INHALATION INGESTION
 EYE CONTACT: Moderate to severe eye irritant. Prolonged contact may cause corneal damage and possibly blindness.
 SKIN CONTACT: May cause irritation. Long-term contact may cause inflammation and blistering
 INGESTION: May cause burns to mouth, throat and esophagus.
 INHALATION: Will be irritating to mucous membranes of nose, throat, and upper respiratory tract. Severe overexposure may cause lung damage, choking, unconsciousness or death. Ingredients in this mixture may induce sensitization and may cause allergic reactions in sensitized individuals.
 CARCINOGENICITY: No information available.
 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:	Immediately flush with water. Removing contaminated clothing and footwear. If irritation persists, or burns appear, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for at least 15 minutes. Hold eyelids open to ensure thorough flushing. Obtain medical attention.
INGESTION:	Do not induce vomiting. Rinse mouth thoroughly with water. Have victim drink 1 to 2 glasses of water to dilute material in stomach. Obtain immediate medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues, contact a physician.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	White granular powder; odourless
SPECIFIC GRAVITY:	Not available
BOILING POINT (°C):	Not available
MELTING POINT (°C):	Not available
SOLUBILITY IN WATER:	Soluble
PERCENT VOLATILE BY VOLUME:	Not available
EVAPORATION RATE:	Not available
VAPOUR PRESSURE (mmHg):	Not available
VAPOUR DENSITY (air = 1):	Not available
BULK DENSITY:	Not available
	pH: 1.5 (5% w/v)

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not applicable
FLAMMABLE LIMITS:	Not available
EXTINGUISHING MEDIA:	Water, dry chemical or foam.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire-fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	High concentrations of dust may form explosive mixture in air.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon and oxides of sulfur.

SECTION VII: REACTIVITY DATA

STABILITY:	<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE
INCOMPATIBILITY (CONDITIONS TO AVOID):	Avoid contact with strong oxidizing agents, strong reducing agents and strong acids. Mildly corrosive to carbon steel, gray and nickel cast iron, copper, brass, aluminum and lead.	
CONDITIONS OF REACTIVITY:	Not available.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Flammable/explosive hydrogen gas may be emitted on contact with metals.	
HAZARDOUS POLYMERIZATION:	<input checked="" type="checkbox"/> WILL NOT OCCUR	<input type="checkbox"/> MAY OCCUR

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

RESPIRATORY PROTECTION:	NIOSH approved dust mask recommended for contact up to the TLV. Use an approved respirator with dust cartridges for concentrations above TLV. ACGIH 8 hour TLV for particulates not otherwise regulated is 10 mg/m ³ (total dust) or 3 mg/m ³ (respirable).
VENTILATION:	Use local ventilation, process enclosure or other engineering controls to keep airborne dust to a minimum
PROTECTIVE GLOVES:	Suggest plastic or rubber.
EYE PROTECTION:	Suggest chemical goggles. Do not wear contact lenses when handling this material.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Full body covering clothing recommended. Ensure eye wash and emergency shower are available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Wear suitable protective equipment to prevent skin and eye contact. Avoid inhalation and ingestion. Wash thoroughly after use. Thoroughly clean contaminated clothing and footwear before reuse. Store in a cool, dry area away from incompatibles. Keep containers closed when not in use. Aqueous solutions can, if in contact with reactive metal (iron, zinc, aluminum) form hydrogen which may form explosive mixtures. Avoid creating dust clouds when handling. Empty packages will contain residual hazardous material; handle as if full.

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

Use appropriate safety equipment. Sweep up to collect. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Avoid creating dust clouds.

WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial and local regulations. Material is biodegradable in waste treatment facility. 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 will contain residual hazardous material and must be disposed of in accordance with local regulations.

SECTION IX: PREPARATION

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

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BY: Regulatory Affairs
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