

**SECTION 1: IDENTIFICATION**

PRODUCT IDENTIFIER: **CAN-BREAK ECA**

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Oilwell drilling fluid additive


RESTRICTIONS ON USE: None

SUPPLIER IDENTIFIER: **Di-Corp**  
**8750-53 Ave**  
**Edmonton, AB T6E 5G2**  
**780-440-4923**

EMERGENCY PHONE NUMBER: 1-888-CANUTEC (226-8832), 613-996-6666 or \*666 on a cellular phone

**SECTION 2: HAZARD IDENTIFICATION**

CLASSIFICATION: Corrosive to metals – Category 1  
Skin irritant – Category 2  
Eye irritant – Category 2A  
Sensitization – Respiratory – Category 1

LABEL SYMBOLS: 

SIGNAL WORD: Danger

HAZARD STATEMENTS: May be corrosive to metals.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

OTHER HAZARDS: None

**Prevention**  
Keep only in original container.  
Wash thoroughly after handling.  
Wear protective gloves, clothing, eye and face protection.  
Avoid breathing dust. Wear respiratory protection.

**Response**  
IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice.  
Take off contaminated clothing and wash before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.  
IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a doctor.

PRECAUTIONARY STATEMENTS: **Storage**  
Store in a corrosion resistant container.

**Disposal**  
Dispose of contents/container in accordance with local, provincial or federal regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (w/w)
Sulfamic acid	5329-14-6	15%
Alpha-Amylase of <i>Aspergillus oryzae</i>	9001-19-8	0.1-1.0%

### SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Brush away excess material and wash thoroughly with water and soap. If irritation develops, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for at least 15 minutes. Hold eyelids open to ensure thorough flushing. When flushing period is complete 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.
MOST IMPORTANT SYMPTOMS / EFFECTS:	May cause severe eye and skin irritation. Prolonged contact may cause burns and/or permanent eye damage. Ingredients in this mixture may induce sensitization and may cause allergic reactions in sensitized individuals.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	For eye contact immediate first aid can prevent damage. Treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Carbon dioxide, dry chemical, water spray or foam.
UNSUITABLE EXTINGUISHING MEDIA:	Not available.
SPECIFIC FIRE HAZARDS:	May form an explosive dust/air mixture in the presence of an ignition source. Will burn under fire conditions.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon, oxides of sulfur, hydrogen sulfide and other toxic fumes.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move from fire area if possible.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment including respiratory protective equipment. Eliminate ignition sources. Non-sparking tools should be used as dust/air mixtures may explode violently.

#### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect spilled material by vacuum if possible to avoid generation of dust. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Wash spill area with water until non-slippery.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing dust. Avoid creating dust cloud during handling. Use only in a well ventilated area.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry area away from incompatible materials. Keep away from heat and sources of ignition. Dust generated in handling of this product can be explosive if sufficient quantities are mixed in air in which case ignition sources should be avoided. Slippery when wet.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Not available.
ENGINEERING CONTROLS:	Use local exhaust ventilation, process enclosure or other engineering controls as required to maintain dust concentration below TLV's.
	PERSONAL PROTECTIVE MEASURES
RESPIRATORY PROTECTION:	Respiratory protection should be worn when there is a potential to exceed exposure limit requirements or guidelines.
PROTECTIVE GLOVES:	Rubber gauntlets recommended.
EYE PROTECTION:	Safety glasses with side-shields or chemical goggles. Do not wear contact lenses.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Off-white powder
ODOUR:	Not available
ODOUR THRESHOLD:	Not available
pH:	1.5 (5% solution)
MELTING POINT / FREEZING POINT:	Not applicable
BOILING POINT / RANGE:	Not applicable
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not applicable
FLAMMABILITY:	Will burn under fire conditions
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	Not available
SOLUBILITY:	Soluble in water
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	No information available
CHEMICAL STABILITY:	Stable
POSSIBILITY OF HAZARDOUS REACTIONS:	Polymerization will not occur
CONDITIONS TO AVOID:	Open flame and ignition sources.
INCOMPATIBLE MATERIALS:	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.
HAZARDOUS DECOMPOSITION PRODUCTS:	No information available.

## SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	Not available		
	COMPONENT TOXICITY		
<b>INGREDIENT</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Sulfamic acid	3106 mg/kg	Not available	Not available
Alpha-Amylase of <i>Aspergillus oryzae</i>	>5000 mg/kg	Not available	Not available
SKIN CONTACT:	May cause irritation. Long-term contact may cause inflammation and blistering.		
EYE CONTACT:	Moderate to severe eye irritant. Prolonged contact may cause corneal damage and possibly blindness.		
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 ingredient listed by IARC, NTP, ACGIH or OSHA.		
TERATOGENICITY:	Not toxic based on available information.		
REPRODUCTIVE TOXICITY:	Not toxic based on available information.		
MUTAGENICITY:	Not mutagenic based on available information.		
CHRONIC TOXICITY:	No information available.		
TARGET ORGAN EFFECTS:	Lungs: may cause respiratory sensitization.		

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No product information available. Sulfamic acid: LC50 = 42.2 mg/L/96 hr (pimephales promelas)
PERSISTENCE AND DEGRADABILITY:	No information available.
BIOACCUMULATIVE POTENTIAL:	No information available.
MOBILITY IN SOIL:	No information available.
OTHER ADVERSE EFFECTS:	No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose/incinerate in accordance with federal, state 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 14: TRANSPORTATION INFORMATION

TDG:	Regulated
DOT:	Regulated
IATA:	Regulated
IMDG:	Regulated
UN NUMBER:	UN2967
PROPER SHIPPING NAME:	Sulfamic acid, mixture
CLASS:	8
PACKING GROUP:	III
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not applicable

## SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are listed on the DSL.
WHMIS CLASS:	E
TSCA:	All ingredients are listed or exempt from listing.

## SECTION 16: OTHER INFORMATION

REVISION DATE:	May 23, 2018
REPLACES:	March 17, 2017

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