


## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **Calcium Nitrate**  
OTHER MEANS OF IDENTIFICATION: Envirofloc; Calcium Ammonium Nitrate  
RECOMMENDED USE: Oilwell drilling fluid additive  
RESTRICTIONS ON USE: None known  
SUPPLIER IDENTIFIER: **Di-Corp**  
**8750-53 Ave**  
**Edmonton, AB T6E 5G2**  
**780-440-4923**  
EMERGENCY PHONE NUMBER: 780-468-4064

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Acute toxicity – Category 4  
Serious eye damage – Category 1

LABEL SYMBOLS: 

SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION: Harmful if swallowed.  
Causes serious eye damage.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves, eye and face protection.

PRECAUTIONARY STATEMENTS: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.  
Dispose of contents/container in accordance with local/regional/national regulations.

OTHER HAZARDS: None.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Hydrated ammonium and calcium nitrate	6484-52-2 & 10124-37-5	100

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and brush away excess product. Flush with water for 15 minutes. If irritation develops and persists seek medical attention.

EYE CONTACT: Immediately flush eyes with gently flowing warm water for at least 15 minutes. Get medical attention when flushing is completed.

INGESTION: Do not induce vomiting unless directed to do so by medical personnel. Rinse mouth with water. Give 1 to 2 glasses of water. Obtain medical attention if you feel unwell. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

INHALATION: Move to area free from dust. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If breathing difficulties continue obtain medical attention.

**MOST IMPORTANT SYMPTOMS / EFFECTS:** May cause severe eye irritation.  
**IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:** Immediate flushing of eyes is critical to prevent possible damage. If large quantity is ingested, get immediate medical advice or attention. Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Use flooding quantities of water to extinguish.  
**UNSUITABLE EXTINGUISHING MEDIA:** Do not use chemical extinguisher or foam or attempt to smother the fire with steam or sand.  
**SPECIFIC FIRE HAZARDS:** None known.  
**HAZARDOUS COMBUSTION PRODUCTS:** Not available.  
**SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:** Self-contained breathing apparatus required for fire-fighting personnel.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Evacuate nonessential personnel.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect dry material by shoveling. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Wear personal protective equipment. Wash thoroughly after handling, before eating, smoking and using the lavatory and at the end of the working period. Avoid contact with skin and eyes. Avoid ingestion. Wash clothing before reuse.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area away from incompatibles. Keep container tightly closed and properly labelled. Empty packages contain residual hazardous material and should be handled as if full.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS:** Not determined.  
**ENGINEERING CONTROLS:** Use only with adequate ventilation. If user operations generate dust use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.

### PERSONAL PROTECTIVE MEASURES

**RESPIRATORY PROTECTION:** In absence of adequate ventilation an approved dust mask should be worn. If TLV is exceeded wear an approved respirator with dust cartridges.  
**PROTECTIVE GLOVES:** Rubber gauntlets recommended.  
**EYE PROTECTION:** Suggest safety glasses with side shields. Suggest chemical goggles be worn when preparing solutions.  
**OTHER PROTECTIVE EQUIPMENT (SPECIFY):** Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** White to off-white granular solid  
**ODOUR:** Odourless  
**ODOUR THRESHOLD:** Not applicable  
**pH:** 6 - 7 (5% solution)  
**MELTING POINT / FREEZING POINT:** 116°C  
**BOILING POINT / RANGE:** Not determined

FLASH POINT:	Not applicable
EVAPORATION RATE:	Not determined
FLAMMABILITY:	Not flammable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not determined
VAPOUR DENSITY:	Not determined
RELATIVE DENSITY:	Not determined
SOLUBILITY:	Soluble in water
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not determined
VISCOSITY:	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not reactive.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Will not occur under normal conditions or storage and use.
CONDITIONS TO AVOID:	Avoid contamination by any source including metals, dust and organic materials.
INCOMPATIBLE MATERIALS:	Alkalis, combustible materials, reducing materials, organic materials, acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

## SECTION 11: TOXICOLOGICAL INFORMATION

COMPONENT	LD50 Oral	LC50 Dermal	LC50 Inhalation
Hydrated calcium ammonium nitrate	500 mg/kg (rat)	>2000 mg/kg (rabbit)	Not determined

SKIN CONTACT:	Repeated or prolonged contact may cause irritation.
EYE CONTACT:	Strong irritant with danger of severe eye injury.
INGESTION:	Harmful if swallowed. No specific information available.
INHALATION:	May cause mild nasal irritation.
CARCINOGENICITY:	Not considered to be carcinogenic (NTP, IARC, or OSHA).
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	Not available.

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	LC50 (labeo boga) = 447 mg/L/48hr EC50 (daphnia magna) > 100 mg/L/48hr EC50 (heterosigma akashiwo) > 100 mg/L/72hr EC50 (microorganism) > 1000 mg/L/3hr
PERSISTENCE AND DEGRADABILITY:	Not applicable to inorganic materials.
BIOACCUMULATIVE POTENTIAL:	Accumulation in organisms is not expected.
MOBILITY IN SOIL:	No information available.

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of 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. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be recycled, or disposed of, in accordance with local regulations.

### **SECTION 14: TRANSPORTATION INFORMATION**

TDG	Not regulated
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	None

### **SECTION 15: REGULATORY INFORMATION**

DSL:	Listed
WHMIS 1988 CLASS:	Not controlled
TSCA:	Listed

### **SECTION 16: OTHER INFORMATION**

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