



## PRODUCT INFORMATION

CHEMICAL NAME: Ammonium Calcium Nitrate Decahydrate  
SYNONYMS: Enviro Floc  
CHEMICAL FAMILY: Not applicable  
MOLECULAR FORMULA:  $5\text{Ca}(\text{NO}_3)_2 \cdot \text{NH}_4\text{NO}_3 \cdot 10\text{H}_2\text{O}$   
SHIPPING NAME: Not applicable  
PIN - (UN/NA): Not applicable  
WHMIS: Uncontrolled  
USE: Drilling fluid additive  
SUPPLIER: Panther Industries Inc.  
Box 698  
Davidson Sk.  
S0G 1A0  
EMERGENCY TELEPHONE NUMBER: (306) 567-2814

## HAZARDOUS INGREDIENTS

INGREDIENTS:	WEIGHT %	C.A.S. REGISTRY NUMBER:
None		

## PHYSICAL DATA

PHYSICAL STATE: Solid, granules  
ODOUR AND APPEARANCE: Odourless off white crystals  
ODOUR THRESHOLD: Not available      VAPOUR PRESSURE: Not available  
VAPOUR DENSITY: Not available      EVAPORATION RATE: Not available  
BOILING POINT: Decomposes      MELTING POINT: 110 oC  
pH: 6 (5% soln.)      SPECIFIC GRAVITY: 1.06 (bulk)  
COEFFICIENT OF WATER/OIL DISTRIBUTION:  
Water solubility 75% (w/w @ 25 oC)

## FIRE AND EXPLOSION HAZARD DATA

CONDITIONS OF FLAMMABILITY:  
Low fire risk. Decomposition produces oxides of Nitrogen.  
MEANS OF EXTINCTION: Flood with water.  
FLASH POINT: Not available  
AUTO IGNITION TEMPERATURE: Not available  
UPPER FLAMMABLE LIMIT: Not available  
LOWER FLAMMABLE LIMIT: Not available  
SENSITIVITY TO IMPACT: None  
SENSITIVITY TO STATIC DISCHARGE: None  
SPECIAL FIRE FIGHTING PROCEDURES:  
Flood with copious amounts of water. Decomposition of this product yields oxides of nitrogen which can be toxic by inhalation. Self contained breathing apparatus should be worn.  
EXPLOSION HAZARDS: Not available  
REACTIVITY DATA  
STABILITY: Stable      HAZARDOUS POLYMERIZATION: Will not occur  
INCOMPATIBILITY: None



HAZARDOUS REACTIONS/DECOMPOSITIONS: None  
CONDITIONS TO AVOID: None

## HEALTH HAZARD DATA

INHALATION: May cause slight irritation if inhaled.

SKIN CONTACT:

May cause irritation particularly if the skin is wet from perspiration.

EYE CONTACT: May cause irritation if contact is made with the eye.

INGESTION: Not available

CHRONIC EXPOSURE EFFECTS:

Dust may cause irritation particularly if the skin is wet with perspiration.

EXPOSURE LIMITS: None                      IRRITANCY: None

SENSITIZATION TO PRODUCT: None      CARCINOGENICITY: None

TERATOGENICITY: None                      MUTAGENICITY: None

SYNERGISTIC PRODUCTS: None          REPRODUCTIVE TOXICITY: None

FIRST AID MEASURES

INHALATION: Move victim to fresh air.

SKIN CONTACT: Wash with soap and water.

EYE CONTACT: Flush eye with water for at least 15 minutes.

INGESTION:

Delay absorption of ingested nitrate by giving milk or activated charcoal and then remove by gastric lavation or emesis.

## PREVENTATIVE MEASURES

RESPIRATORY PROTECTION: Wear a dust mask for dusty conditions.

EYE/FACE PROTECTION: Wear chemical goggles for dusty conditions.

SKIN PROTECTION: Wear rubber gloves when handling the product.

SPECIAL HANDLING PROCEDURES:

Ventilation should be adequate to remove dust.

STORAGE REQUIREMENTS: Store in a cool dry, place.

## ENVIRONMENTAL PROTECTION DATA

STEPS IN THE EVENT OF A SPILL OR LEAK:

Sweep up spill and re-use as much as possible. Material that cannot be saved should be spread on arable land away from any source of drinking water. Flush area with water.

ENVIRONMENTAL EFFECTS: Not available.

DEACTIVATING CHEMICALS: Not available

WASTE DISPOSAL METHODS:

Spread unusable material on arable land away from sources of drinking water.



## PREPARATION INFORMATION

PREPARED BY: Technical Department  
Panther Industries Inc.

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REFERENCES:

1. Manufacturers MSDS.