

# MATERIAL SAFETY DATA SHEET



Accensi Pty Ltd	Date Issued: 23 April 2010
Narangba Qld, 4504	
Ph: (07) 3897 2000	Fax: (07) 3897 2022
<a href="http://www.accensi.com.au">www.accensi.com.au</a>	Product Code:

## 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Country Calcium Nitrate + Boron

### COMPANY IDENTIFICATION:

Accensi Pty Ltd  
60 - 76 Potassium Street  
Narangba, Queensland 4504

**USE:** Agricultural Fertilizer

## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	CAS Reg. No.	Conc.
Calcium Nitrate	10124-37-5	76%
Ammonium Nitrate	6484-52-2	Low
Boric acid	10043-35-3	Very low
Water	7732-18-5	Med

Composition	Conc.
Calcium	19.6%
Nitrogen	15.5%
Ammonium	1.2%
Boron	0.2%

## 3. HAZARDOUS IDENTIFICATIONS:

- **Not classified hazardous according to criteria of Worksafe Australia**

**POTENTIAL HEALTH EFFECTS:** This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

**EYE:** May cause eye irritation

**SKIN:** Prolonged contact may cause irritation.

**INGESTION:** Small quantities unlikely to cause effect. Nitrates: Ingestion of large quantities will cause methaemoglobinemia with headaches, dizziness, heart beat irregularities, blood pressure loss, cramps and breathing difficulties.

**INHALATION:** High dust concentration of airborne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing.

**SYSTEMIC** (other target organ): No Data Available

**CANCER INFORMATION:** No Data Available

**TERATOLOGY** (Birth defects): No Data Available

**REPRODUCTIVE EFFECTS:** No Data Available

**MUTAGENICITY:** No Data Available

## 4. FIRST AID:

If poisoning occurs, immediately contact a doctor or **Poisons Information Centre (telephone 13 11 26)**, and follow the advice given. Show this Material Safety Data Sheet to a doctor.

**EYE:** Rinse immediately with plenty of water for at least 15 minutes, holding eye open and taking care to rinse under eyelids as well. If irritation persist seek medical attention.

**SKIN:** Wash off skin immediately with soap and plenty of water. Remove all contaminated clothing and shoes. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

**INGESTION:** Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.

**INHALATION:** Remove victim to fresh air. Seek medical advice if symptoms are experienced.

**NOTE TO PHYSICIAN / FIRST AIDERS:** Treat Symptomatically. Note the nature of this product.

## 5. FIRE FIGHTING MEASURES:

**FLASH POINT:** Does not burn

**EXTINGUISHING MEDIA:** Use media suitable to burning material.

**FIRE AND EXPLOSION HAZARDS:** Heat does not produce any known decomposition products. There is little or no chance of an explosion from this product if involved in a fire.

**FIRE-FIGHTING EQUIPMENT:** Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.

## 6. ACCIDENTAL RELEASE MEASURES:

**ACTION TO TAKE FOR SPILLS:**

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In case of spills it is important to take all steps necessary to:

- Avoid eye and skin contact.
  - Avoid contamination of waterways.
1. Keep all bystanders away.
  2. Wear full-length clothing and PVC gloves.
  3. Shovel the spill into drums.

## 7. HANDLING AND STORAGE:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool dry place away from direct sunlight. Store away from food and food stuffs for animal or human consumption. Store in its original container well sealed.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION:

**EXPOSURE GUIDELINES:** Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A time weight average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the ingredients in this product. There is a blanket recommendation of 10mg/m<sup>3</sup> for inspirable dusts or mists when limits have not otherwise been established.

**ENGINEERING CONTROLS:** In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

**RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:** Avoid skin and eye contact and inhalation of vapour. Wear overalls, eye protection and impervious gloves. Use adequate ventilation. Eye washing and shower facilities available.

**EYE / FACE PROTECTION:** Face and eye protection should be worn. For help in selecting suitable equipment consult AS 1336 and AS/NZS 1337.

**SKIN PROTECTION:** Wear chemical resistant PVC or nitrile gloves. Wear cotton overalls and washable cotton hat. Wear boots. For help in selecting suitable

gloves consult AS 2161 For help in selecting suitable clothing consult AS 2919. For help in selecting boots consult AS/NZS 2210

**RESPIRATORY PROTECTION:** Use in well-ventilated area. For help in selecting suitable equipment consult AS/NZS 1715.

## APPLICATIONS AND ALL OTHER HANDLERS:

After handling this product always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** White to yellowish granular solid – readily absorbs moisture

**pH:** 6

**ODOUR:** No Odour

**SOLUBILITY IN WATER:** Very soluble in water

**SPECIFIC GRAVITY:** approx 2

**MELTING POINT:** approx. 94°C

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions. React with oxidising agents.

**INCOMPATIBILITY:** Avoid strong acids and alkalis.

**HAZARDOUS DECOMPOSITION PRODUCTS:** This product is unlikely to spontaneously decompose. May form oxides of nitrogen if involved in a fire.

**HAZARDOUS POLYMERIZATION:** This product is unlikely to spontaneously polymerise.

## 11. TOXICOLOGICAL INFORMATION:

LD<sub>50</sub> (Oral, rat) 2100mg/kg

## 12. ECOLOGICAL INFORMATION:

**ENVIRONMENTAL DATA:** Calcium Nitrate is very soluble in water. The nitrate ion is the predominant form of plant nutrition. It follows the natural nitrification / densification cycle to give nutrition. Large amounts could cause algae growth.

LC<sub>50</sub> (fish, 96 hrs) > 100 mg/L

## 13. DISPOSAL CONSIDERATIONS:

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**DISPOSAL METHOD:** This material may be suitable for landfill. Dispose of only in compliance with local, state and federal regulations.

## 14. TRANSPORT INFORMATION:

**ROAD AND RAIL TRANSPORT:** Classed as Dangerous Goods by the criteria of Australian Dangerous Goods Code (ADG) for transport by road and rail. UN number 1454 CALCIUM NITRATE, Class 5.1, Packing Group III

**MARINE TRANSPORT:** Classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code. (IMDG) UN number 1454 CALCIUM NITRATE, Class 5.1, Packing Group III

**AIR TRANSPORT:** Classified as Dangerous Goods by the International Air Transport Association (IATA) dangerous goods regulation for the transport by air. UN number 1454 CALCIUM NITRATE, Class 5.1, Packing Group III

## 15. REGULATORY INFORMATION:

**POISON SCHEDULE:** None Applied

**RISK PHRASES:**  
None

**SAFETY PHRASES:**  
S2 Keep out of reach of children  
S23 Do not breathe vapour / spray  
S44 If you feel unwell, contact a doctor or poisons information centre immediately. (Show the label where possible).

## 16. OTHER INFORMATION:

All information in this data sheet is provided in good faith and is believed to be correct. Each user should consider the information in this safety data sheet within the context of their particular application as Accensi Pty Ltd cannot anticipate or control conditions under which this product may be used. Accensi Pty Ltd will not be responsible for any damages arising out of the use or reliance upon the information in this safety data sheet. No expressed or implied warranties are given other than those implied mandatory by Commonwealth, State or Territory legislation.

Please read all labels carefully before use.

Contact: **Emergency Services**  
**Ph: 000**