



## Section 1 - Identification of Material and Supplier

**Chemical Nature:** Calcium Nitrate and Boron  
**Trade Name:** Calcium Nitrate Plus Boron  
**Product Use:** Fertiliser – calcium and boron source  
**Supplier:** Barmac (A Division of Amgrow Pty Ltd)  
 Unit B2a, 3-29 Birnie Avenue  
 Lidcombe NSW 2141  
 Phone: (02) 9395 1200 (Office hours), Fax: (02) 9395 1241  
 www.amgrow.com.au  
**Creation Date:** December 2021 (valid for 5 years from this date)

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA

NOT A DANGEROUS GOOD ACCORDING TO THE ADG CODE, IATA OR IMDG/IMSBC CRITERIA

Hazard Statements: Not Hazardous - No criteria found.

**ADG Classification:** None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

**UN Number:** None allocated

**GHS Signal word:** NONE. Not hazardous.

### PREVENTION

- P102: Keep out of reach of children.
- P260: Do not breathe dust
- P262: Do not get in eyes, on skin, or on clothing.
- P281: Use personal protective equipment as required.

### RESPONSE

- P353: Rinse skin or shower with water.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

### STORAGE

- P402+P404: Store in a dry place. Store in a closed container.

### DISPOSAL

- P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

### Emergency Overview

**Physical Description & colour:** White to yellowish crystalline solid, hygroscopic

**Odour:** No odour

**Major Health Hazards:** No significant risk factors have been found for this product in normal use.

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc %
Calcium Nitrate	10124-37-5	76
Ammonium Nitrate	6484-52-2	} to 100
Boric Acid	10043-35-3	
Water	7732-18-5	

*This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.*

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## Section 4 - First Aid Measures

**General Information:** You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** Remove victim to fresh air. Seek medical attention promptly if symptoms are apparent.

**Skin Contact:** Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation persists after washing, seek medical attention. If molten material should contact skin and adhere, cool quickly with running water – do not attempt to remove.

**Eye Contact:** Hold eye open and flush gently with copious amounts of water for at least 15 minutes and seek medical attention.

**Ingestion:** If swallowed, immediately rinse mouth out with water. Give water to drink. Contact Poisons Information Centre or doctor immediately. Do not induce vomiting.

**Advice to Doctor:** Treat symptomatically

## Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** Not combustible but is a strong oxidising agent. Supports combustion and increases intensity of a fire.

**Extinguishing Media:** Water Spray (large quantities)

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. Fire fighters to wear self contained breathing apparatus. Fires should be fought from a protected location

**Flash point:** Non Flammable

**Flammability Limits:** Not applicable

**Auto ignition temperature:** Not available

**Further Advice:** In the event of a fire, keep containers and adjacent areas cool with water spray and if safe to do so remove bags or containers away from path of fire.

**Fire Decomposition:** May form oxides of nitrogen if involved in a fire.

## Section 6 - Accidental Release Measures

**Accidental release:** For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services. This material may be suitable for approved landfill.

## Section 7 - Handling and Storage

**Handling:** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

**Storage:** Store in cool, dry area removed from foodstuffs. Ensure containers are labelled, protected from physical damage and sealed when not in use. Do not allow to come into contact with water either from rain, condensation or the surface on which it is stored. Bagged fertilisers should be stored under cover and out of direct sunlight. Store away from farm chemicals e.g. insecticides, fungicides and herbicides.

## Section 8 - Exposure Controls and Personal Protection

**Exposure Limits**      **TWA (mg/m<sup>3</sup>P)**      **STEL (mg/m<sup>3</sup>P)**      **ADI (mg/Kg/day)**      **NOEL (mg/Kg/day)**

*Exposure limits have not been set by SWA for other ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, 31<sup>st</sup> March 2012*

### Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

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Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Avoid high dust concentration and provide local exhaust ventilation where necessary.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when using this product.

**Skin Protection:** Wear chemical-resistant, impervious gloves or gauntlets and long sleeves when using this product to protect against skin irritation

**Respirator:** Use P2 type canister respirator where high concentrations of airborne dust is present

Provision of eye wash facilities and safety shower should be provided

Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

## Section 9 - Physical and Chemical Properties:

**Physical Description & colour:** White to yellowish crystalline solid, hygroscopic

**Odour:** No odour

**Melting Point:** approx 94°C

**Flash Point:** N/A

**Specific Gravity:** approx 2

**Water Solubility:** Very soluble

**pH:** 6

**Auto ignition temp:** N/A

**Boiling Point:** Not relevant

**Volatility:** Not relevant

**Odour Threshold:** No data.

**Evaporation Rate:** Not applicable.

**Coeff Oil/water Distribution:** No data

**Viscosity:** Not applicable.

**Auto ignition temp:** Not applicable - does not burn

## Section 10 - Stability and Reactivity

**Stability:** The product is stable under normal conditions of storage and use

**Conditions to Avoid:** Heat, flames.

**Incompatibilities:** Reactive with reducing agents, strong acids and alkalis.

**Fire Decomposition Products:** Oxides of nitrogen

**Polymerisation:** This product is unlikely to undergo polymerisation processes

## Section 11 - Toxicological Information

**Target Organs:** There is no data to hand indicating any particular target organs.

**Toxicity to Animals:**

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

### Potential Health Effects

**Inhalation:** If product in high concentrations of airborne dust, contact may cause irritation to the nose and upper respiratory tract with symptoms such as sore throat and a cough

**Skin Contact:** Prolonged contact may cause skin irritation

**Eye Contact:** Irritating to eyes

**Ingestion:** Can cause nausea, dizziness, considerable gastric upset, diarrhoea, vomiting. Ingestion of large quantities may cause nitrate poisoning.

### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

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**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

### Classification of Hazardous Ingredients

Ingredient

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

## Section 12 - Ecological Information

Acute LC<sub>50</sub> Fish - 96 hours >100mg/L

**Environment:** Avoid contamination of waterways. Calcium Nitrate is very soluble in water. The nitrate ion is the predominant form of plant nutrition. Large amounts could cause algae growth.

## Section 13 - Disposal Considerations

**Disposal:** Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service. This product can usually be used for its intended purpose unless contaminated by substances that make it unsuited.

## Section 14 - Transport Information

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

## Section 15 - Regulatory Information

**AICIS:** All of the significant ingredients in this formulation are compliant with AICIS regulations or are mentioned in AICIS.

## Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

### Acronyms:

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail	<b>IMSBC</b>	International Maritime Solid Bulk Code
<b>AICS</b>	Australian Inventory of Chemical Substances	<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>ASCC</b>	Australian Safety & Compensation Council	<b>NTP</b>	National Toxicology Program (USA)
<b>CAS number</b>	Chemical Abstracts Service Registry Number	<b>R-Phrase</b>	Risk Phrase
<b>Hazchem Number</b>	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters	<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>IARC</b>	International Agency for Research on Cancer	<b>SWA</b>	Safe Work Australia (formerly ASCC and NOHSC)
<b>IATA</b>	International Air Transport Authority	<b>UN Number</b>	United Nations Number
<b>IMDG</b>	International Maritime Dangerous Good		

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product. This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020)  
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Issued by: Amgrow Pty Ltd

Phone: (02) 9395 1200 (office hours)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)