

Section 1 - Identification of Material and Supplier

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Trade Name:	Prolific Blue AN
Product description:	Compound Fertiliser NPK 12-5-14 +Mg
Product Use:	Fertiliser (soil nutrient)
Issue Date:	October 2011

Section 2 - Hazards Identification

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF ASCC
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE
UN Number: None allocated
Hazchem Code: None Allocated
SUSDP (Poison) Classification: Not scheduled

Emergency Overview

Physical Description & colour: Blue prilled solid
Odour: Slight odour
Major Health Hazards: None recorded

Potential Health Effects

Inhalation: If product in high concentrations of airborne dust, prolonged contact may cause irritation to the nose and throat

Skin Contact: This product may be mildly irritating to skin. However, it is unlikely to cause more than minor discomfort or effects such as itchiness or slight skin reddening.

Eye Contact: This product is mildly irritating to the eyes. It may cause discomfort such as stinging, watering and redness of the eyes.

Ingestion: May be harmful if swallowed. Can cause gastric upset or diarrhoea if large quantities ingested.

Carcinogen Status:

ASCC: No significant ingredient is classified as carcinogenic by ASCC

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

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

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	TWA (mg/m3)	STEL (mg/m3)
Ammonium Nitrate	6484-52-2	not set	not set
Iron Oxide	1309-37-1	5	not set
Mono Ammonium Phosphate	7722-76-1	not set	not set
Potassium Sulphate	7778-80-5	not set	not set
Zinc Oxide	1314-13-2	10	not set
Calcium Borate	27676-48-8	not set	not set
Manganese Oxide	1317-35-7	not set	not set
Magnesium Sulphate	7487-88-9	not set	not set
Superphosphate	8011-76-5	not set	not set

This product is a compound fertiliser containing the above ingredients. This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

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. 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

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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 and is available at all times. Have this MSDS with you when you call.

Inhalation: Remove victim to fresh air. Recovery is rapid after removal from exposure. Seek medical attention if irritation persists or breathing difficulties arise

Skin Contact: Remove contaminated clothing and wash thoroughly with soap and water.

Eye Contact: Hold eye open and flush gently with copious amounts of water for 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. Induce vomiting if directed to do so.

Advice to Doctor: Treat symptomatically

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition may give rise to toxic and noxious fumes of phosphorus oxides and ammonia

Extinguishing Media: Not Flammable. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Non Flammable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Auto ignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Hazchem Code: None Allocated

Section 6 - Accidental Release Measures

Spillage: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recovered product into labelled containers for recycling or salvage, and dispose of promptly. After spills, wash area, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Ensure legality of disposal by consulting regulations prior to disposal. Launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

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, combustible materials, herbicides and fungicides. Ensure containers are labelled, protected from physical damage and sealed when not in use. Keep from extreme heat and open flames and make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10.

Section 8 - Exposure Controls and Personal Protection

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

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**.

Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)	ADI (mg/Kg/day)	NOEL (mg/Kg/day)
Iron Oxide	5	not set	not set	not set
Zinc Oxide	10	not set	not set	not set

Exposure limits have not been set for other ingredients in product. 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 exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A TWA has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2003.

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: 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 gloves when using this product to protect against skin irritation. Cover open wounds

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

Provision of eye wash facilities necessary and safety shower recommended.

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

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Blue Prills
Odour:	Slight odour
Freezing/Melting Point/Range:	No data
Decomposition Temperature:	Not applicable
Flash Point:	Non-flammable
Vapor Pressure:	Not applicable
Specific Gravity	No data
Water Solubility:	Slightly Soluble
Auto ignition temp:	Not applicable – does not burn

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Extreme temperatures, flames.

Incompatibilities: Strong oxidizers.

Fire Decomposition Products: phosphorus oxides, ammonia & sulphur trioxides

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Inhalation: If product in high concentrations of airborne dust, prolonged contact may cause irritation to the nose and throat

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Eye Contact: This product is mildly irritating to the eyes. It may cause discomfort such as stinging, watering and redness of the eyes.

Ingestion: May be harmful if swallowed. Can cause gastric upset or diarrhoea if large quantities ingested.

Section 12 - Ecological Information

Environment: Avoid contamination of waterways
Aquatic Toxicity Rating: TLM₉₆: 1000-100ppm

Section 13 - Disposal Considerations

Disposal: May be suitable for landfill. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/>

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

IMDG, IATA: Not a Dangerous Good for transport by sea or air

Section 15 - Regulatory Information

Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

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

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
ASCC	Office of the Australian Safety and Compensation Council
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
NOHSC	National Occupational Health & Safety Commission
NTP	National Toxicology Program (USA)
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

THIS MSDS 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 MSDS 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 MSDS is prepared in accord with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)] © Amgrow Pty Ltd 2011

MATERIAL SAFETY DATA SHEET