

Biowin Fertilisers

D10, 2A Westall Road, Clayton, Vic 3168
Australia
1300 678 166



Material Safety Data Sheet

1-Product and Company Identification

Trade Name:	Biowin Universal 12-5-14
Common Name:	Compound Fertiliser NPK
Uses:	Fertiliser
Producer/Importer:	Biowin Fertilisers Australia
Address:	3 Glenarm Rd, Glen Iris VIC 3146
Emergency Phone:	0430 178 427
Contact Person:	Wayne Tian

2- Hazard Identification

GHS Hazard Class and Category:

This product is not hazardous but contains hazardous components.

Classification EC 67/548 or EC 1999/45: not classified

Regulation (EC) No 1272/2008 (CLP); not classified

ADG Classification: Based on available information, not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SUSMP Classification: Exempt from Poison Scheduling

3- Composition of product

Ingredients name	CAS	Proportion (%w/w)
Ammonium phosphor nitrate	57608-40-9	<10%
Ammonium Sulphate	7783-20-2	10-30%
Potassium Sulphate	7778-80-5	10-30%
Ammonium dihydrogenorthophosphate(MAP)	7722-76-1	10-60%
Calcium hydrogenorthophosphate	7757-93-9	<10%
Zinc Sulphate Heptahydrate	7446-20-0	<10%
Magnesium Oxide	1309-48-4	<10%
Sodium Tetraborate Pentahydrate	12179-04-3	<10%

4-First Aid Measures

Inhalation: Keep patient calm, remove to fresh air, seek medical attention.

Skin Contact: Wash with plenty of water, including hair and under fingernails.

Eye Contact: In case of dust contact with eyes, rinse immediately with plenty of water. Seek medical attention if ill effect or irritation develops.

Ingestion: Do not induce vomiting. Rinse mouth. Give water to drink if victim completely conscious/alert. Seek medical attention if ill effect develops.

First Aid Facilities: Ensure washing facilities, including an eyewash, are available and maintained.

Note to physician: Hazards: Danger of methaemoglobin formation after ingestion. After inhalation of decomposition products: Risk of pulmonary edema. Symptoms can appear later. Treatment: Treat according to symptoms (decontamination, vital functions).

5-Fire Fighting Measures

Suitable extinguishing media: Large quantity of water.

Unsuitable extinguishing media for safety reasons: foam, dry powder, CO₂ and dry sand.

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6-Accidental Release Measures

Environmental precautions: Do not discharge into drains/surface waters/groundwater. Retain and dispose of contaminated wash water. Spills should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

Methods and Materials: Collect spills and put it into appropriate container, avoid product contamination. Do not allow to mix with combustible or organic substances.

7-Handling and Storage

Handling: Protection against fire and explosion: The product is incombustible. It can lower the ignition temperature of combustible substances. Keep away from sources of ignition - No smoking. Keep away from combustible material. Avoid influence of heat. Risk of explosion if heated under confinement.

All facility parts must be cleansed properly of product residues before maintenance or repair work.

Keep away from food, drink and animal feed. Both local exhaust and general room ventilation are usually required.

Storage: Keep in the original container in a cool, well ventilated, protected from direct sunlight and heat. Store away from heat/moisture. Avoid: organic materials, reducing agents, acids, alkalis, oxidizing agents, chlorides, nitrites, metallic powders and substances containing metals such as copper, nickel, cobalt, zinc and their alloys.

8-Exposure Controls & Personal Protection

Personal protective equipment: Respiratory protection: Breathing protection if breathable aerosols/dust are formed. Hand protection: Suitable chemical resistant safety gloves, also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

Eye protection: Safety glasses with side-shields (frame goggles).

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit.

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Store work clothing separately.

9-Physical & Chemical Properties

Appearance:

Pellet

Odour:	Light
Vapour Pressure:	Not applicable (not volatile)
Density:	0.85-0.95
Vapour Density:	Not applicable (not volatile).
Boiling Point:	Decomposition before boiling
Melting Point:	Decomposes below melting point
Solubility (in water):	Good
pH:	approximately 6
Flash Point:	Not applicable (solid).
Flammability (explosive) Limits:	Not applicable (non-flammable solid).
Auto-Ignition Temperature:	Not applicable (non-flammable solid).
Octanol/Water Partition Coefficient:	Not applicable (inorganic solid).
Thermal decomposition:	>130°C (depending on composition)

10-Stability & Reactivity Data

Reactivity

Chemical Stability:	Stable Under Standard Conditions
Hazardous Reactions:	None under normal conditions
Conditions to Avoid:	Heat. Open flame. Prevent contamination by irrelevant materials
Hazardous Decomposition Products:	No hazardous decomposition products if stored

and handled as prescribed/indicated.

11-Toxicological Information

Acute toxicity: No data available

Irritation;

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Primary skin irritation: non-irritant

Primary irritations of the mucous membrane: non-irritant

Sensitization:

Assessment of sensitization: No data was available concerning sensitizing properties. The chemical structure does not suggest such an effect.

Genetic toxicity

Assessment of mutagenicity: No data was available concerning mutagenic activity. The chemical structure does not suggest a specific alert for such an effect.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

Experiences in humans

Possibility of methaemoglobinaemia.

12-Ecological Information

Ecotoxicity: Low toxicity to aquatic life. No data available.

Persistence and Degradability: No data available

Bioaccumulative Potential: The product does not show any bio-accumulation phenomena.

Mobility in Soil: No data available

Other Adverse Effects: Prevent entry to sewers and public waters. As this fertilizer contains nitrate, heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters or nitrate contamination of ground or surface water.

13-Disposal Considerations

Waste Disposal Methods: Avoid release to the environment. Dispose of in accordance local, State, and Federal regulations.

14- Transport Information

Classification: Based on available information, not classified as Dangerous Goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

UN Number: Not applicable

Proper Shipping Name or Technical Name: Not applicable

Transport Hazard Class: Not applicable

Packing Group: Not applicable

Environmental Hazards for Transport Purposes: Not applicable

Special Precautions for User: Not applicable

HAZCHEM Code: Not applicable

15-Regulatory Information

SUSMP: Exempt from Poison Scheduling

APVMA: Exempt from registration

State Departments of Agriculture / Primary Industries: Registration not required

Australian Inventory of Chemical Substances (AICS): All components listed

16-Other Information

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The information given here is not necessarily exhaustive but is representative of relevant, reliable data.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.