

SAFETY DATA SHEET



*Based on available information, not classified as hazardous, according to criteria of the National Occupational Health and Safety Commission (NOHSC).
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.*

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: BioAg Superb®
Recommended Use: For use as an organic phosphate/calcium fertiliser in agriculture, horticulture, vines, trees and turf enterprises.
Supplier: BioAg Pty Ltd
ABN: 58 086 880 211
Street Address: 24 – 26 Twynam Street
Narrandera NSW 2700 AUS
Telephone No: 02 6958 9911
Facsimile Number: 02 6959 9922
E-mail: sales@bioag.com.au
Emergency Only Telephone: 0437 265 153 (All Hours)

2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to NOHSC:
NON – HAZARDOUS SUBSTANCE
Not classified as Dangerous Goods by the criteria of the Dangerous Goods Code (ADG Code) for transport by Road and Rail
NON – DANGEROUS GOODS

Poisons Schedule: None allocated

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Physical Description: A blend of dark grey to black granule and sand coloured powder with the following particle size (typical analysis):

< 0.25 mm	48	%
0.25 mm to 0.50 mm	37	%
0.50 mm to 1.0 mm	13	%
1.0 mm to 2.0 mm	2	%

Typical Analysis (dry weight):

Component	Level	Unit
Total Phosphorus	8.7	%
Phosphorus – Citric Acid Soluble	3.2	%
Phosphorus – Formic Acid Soluble	5.6	%
Phosphorus – Water Soluble	< 1	%
Calcium as oxide/carbonate	31.4	%
Sulphur as sulphate	6.8	%
Cadmium [Maximum]	8	mg/kg
Cadmium [Maximum]	92	mg/kg P
Cadmium [Maximum Allowed Limit]	300	mg/kg P

Ingredients	CAS No	Proportion
Calcium Sulphate Dihydrate	10101-41-4	< 30%
Ingredients determined not to be hazardous		> 70%

4. FIRST AID MEASURES

Inhalation: Remove patient to fresh air. If not breathing apply artificial respiration. If breathing difficult, give oxygen. Seek medical assistance. Seek medical advice.

Ingestion: Rinse mouth with water. Do not induce vomiting. If swallowed drink water. If vomiting occurs give further water. Seek medical assistance. Seek medical advice.

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- Skin:** Remove contaminated clothing and wash the affected area thoroughly with soap and water. Obtain medical attention if irritation occurs and persists.
- Eye:** Flush eye with water for at least 15 minutes, holding eyelid open. In all cases of eye contamination it is a sensible precaution to seek immediate medical advice.

5. FIRE FIGHTING MEASURES

The material is non – flammable. May evolve toxic gases if strongly heated. May evolve sulphur and phosphorus oxides if heated to decomposition.

Use extinguishing media appropriate to surrounding fire conditions.

If product involved in a fire then self contained breathing equipment and protective clothing may be necessary. Use water fog to cool adjacent storage areas.

6. ACCIDENTAL RELEASE MEASURES

- Minimising Spill/Leaks:** Any spillage should be contained promptly. Avoid generating dust.
- Clean-up Spills/Leaks:** Recover contained product and recycle.
- Clean-up Precautions:** Wash down area (if appropriate). Prevent run-off to drains or waterways. If contamination of drains or waterways occurs contact local emergency services immediately.
- Disposal Methods:** Dispose of on a farm or authorised waste facility in accordance with statutory requirements.

7. HANDLING AND STORAGE

- Conditions for safe storage:** Store in a cool, dry, well ventilated, covered place. Keep product dry. Store away from incompatible materials including oxidising agents, alkalines, hypochlorites and ignition sources.

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Conditions for safe handling: Avoid skin and eye contact. When handling, do not eat, drink or smoke. Wash hands before using toilet facilities Avoid inhalation of product dust.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: No value assigned for this specific material by NOHSC. However the exposure standard for dust not otherwise stated is $10\text{mg}/\text{m}^3$ (inspirable dust) and $3\text{mg}/\text{m}^3$ (respirable dust).

Biological Limit Values: None allocated.

Engineering Controls: Avoid generation of dust. Ensure ventilation is adequate. Ensure an eye wash system is available.

Personal protective equipment: The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the handling methods and environmental factors. However the wearing of eye protection is recommended. Overalls, boots, PVC gloves and the use of a suitable dust mask (AS1715/1716) should also be considered.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A blend of dark grey to black granule and sand coloured powder

Odour: Slight earthy, aromatic

pH: 7.55 - 7.65 (in water)

Vapour pressure: Not applicable

Boiling point: Not applicable

Freezing point: Not available

Solubility [Water]: Slightly soluble (< 5%)

Bulk density: 1.38 - 1.45

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10. STABILITY AND REACTIVITY

Chemical stability:	Product is stable under normal conditions of use, storage and temperature.
Conditions to avoid:	Avoid ignition sources and high heat. Avoid storing in aluminium containers and avoid contact with oxidising agents.
Hazardous decomposition products:	When involved in a fire this product may generate irritating fumes and gases, including sulphur and phosphorus oxides.
Hazardous reactions:	Not expected to occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with the SDS and the product label. This product may contain fluoride (F) as an impurity. Symptoms or effects that may arise if this product is mishandled and overexposure occurs are:

Ingestion:	Ingestion may result in gastric upset, Do not induce vomiting. Seek medical assistance
Eye contact:	Product dust may cause chemical and mechanical eye irritation.
Skin contact:	If topical irritation occurs, wash and treat symptomatically.
Inhalation:	May cause respiratory tract discomfort.
Long term effects:	No information available for this product.
Toxicological data:	No data available for this product.
Advice to Doctor:	Slight risk of product hardening in the stomach. Drinking gelatine solutions or large quantities of water may delay or reduce this risk. In severe cases of ingestion surgical relief of obstruction, particularly at the phlorus may be required.

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12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal: Use up product completely. If necessary dispose of excess product according to State and local waste disposal regulations.

14. TRANSPORT INFORMATION

UN Number: None allocated

UN Proper Shipping Name: None allocated

Dangerous Goods Class: Not classified as Dangerous Goods by the criteria of the Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Packing Group: Not applicable

Special precautions: Not applicable

Hazchem Code: Not applicable

15. REGULATORY INFORMATION

Based on available information, not classified as hazardous according to NOHSC:

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16. OTHER INFORMATION

Reason(s) for issue: new base product supplier, blended product lines

This SDS summarises to our best knowledge at the date of issue, the chemical, health and safety hazards of the product and general guidance on how to safely handle the material in the workplace. Since BioAg Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from their use of the material.

If clarification or further information is needed, the user should contact BioAg Pty Ltd via the contact details listed on Page 1.

BioAg Pty Ltd's responsibility for the material is subject to the terms and conditions of sale, a copy of which is available on request.

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