

MATERIAL SAFETY DATA SHEET



Based on available information, not classified as hazardous, according to criteria of 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 Roots and Shoots®
Recommended Use: For use as a foliar fertilising agent, suitable for use in agriculture/horticulture.
Supplier: BioAg Ltd
CRN: 1958038
Street Address: Unit 3/68 Dunlop Rd
Onekawa NAPIER
Telephone No: (06) 842 0667
Facsimile Number: (06) 842 0684
Emergency Only Telephone: + 61 437 265 153 (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 Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail

NON – DANGEROUS GOODS

Poisons Schedule: None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description: Dark brown, slightly viscous liquid with a rich sweet aroma

Product: BioAg Roots and Shoots®
Issued: 10 -12-2008 **Version:** 3

MATERIAL SAFETY DATA SHEET



Better soils. Better crops. Better stock.™

Components Include: Fermented mixture including molasses, fish emulsion, seaweed, humates, yeasts and compost

Ingredients	<u>CAS No</u>	<u>Proportion</u>
Calcium Nitrate	10124-37-5	< 10%
Phosphoric Acid	7664-38-2	< 10%
Ingredients determined not to be hazardous		100%

4. FIRST AID MEASURES

- Inhalation:** Remove patient to fresh air Inhalation risks not expected to occur.
Seek medical attention if irritation occurs and persists
- 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
- 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 medical advice

5. FIRE FIGHTING MEASURES

The material is non – flammable.

Use extinguishing media appropriate to surrounding fire conditions.

Cool exposed containers with water spray to maintain container integrity.

If container integrity is breached then self contained breathing equipment and protective clothing may be necessary

Product: BioAg Roots and Shoots®
Issued: 10 -12-2008 **Version:** 3

MATERIAL SAFETY DATA SHEET



Better soils. Better crops. Better stock.™

6. ACCIDENTAL RELEASE MEASURES

- Minimising Spill/Leaks:** Any spillage should be contained promptly with sand, earth or vermiculite.
- Clean-up Spills/Leaks:** Recover contained product and recycle. Absorb remaining product in sand, earth or vermiculite.
- 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 place out of direct sunlight. Release cap pressure when stored above 10°C. Store away from farm chemicals eg. Insecticides, fungicides and herbicides.
- Conditions for safe handling:** Avoid skin and eye contact. When handling do not eat, drink or smoke. Wash hands before using toilet facilities

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- National Exposure Standards:** No value assigned for this specific material by NOHSC.
- Biological Limit Values:** None allocated.
- Engineering controls:** Material has a strong smell when container first opened. Ensure ventilation is adequate or open outdoors.
- Personal protective equipment:** The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the handling methods and

Product: BioAg Roots and Shoots®
Issued: 10 -12-2008 **Version:** 3

MATERIAL SAFETY DATA SHEET



Better soils. Better crops. Better stock.™

environmental factors. However the wearing of overalls, boots, PVC gloves and eye protection when handling the concentrate is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown, slightly viscous liquid
Odour:	Rich sweet aroma
pH:	4.5
Vapour pressure:	Not available
Boiling point:	100°C
Freezing point:	Not available
Solubility [Water]:	100%
Specific gravity:	1.22

10. STABILITY AND REACTIVITY

Chemical stability:	Product is stable for at least 12 months under ambient storage conditions. Avoid storing above 30°C as product may decompose.
Conditions to avoid:	Avoid exposure to heat.
Hazardous decomposition products:	None known
Hazardous reactions:	Not expected to occur

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with the MSDS and the product label. Symptoms or effects that may arise if this product is mishandled and overexposure occurs are;

Ingestion:	Ingestion of very large amounts may cause diarrhoea, nausea, vomiting and cramps.
-------------------	---

Product: BioAg Roots and Shoots®
Issued: 10 -12-2008 **Version:** 3

MATERIAL SAFETY DATA SHEET



Better soils. Better crops. Better stock.™

Eye contact: Mildly irritating to eyes
Skin contact: Not irritating to skin
Inhalation: Not expected to occur
Long term effects: No information available for this product
Toxicological data: No LD₅₀ data available for this product

Advice to Doctor: Treat symptomatically

12. ECOLOGICAL INFORMATION

Ecotoxicity: Will not bioaccumulate
Persistence: Will degrade quickly on contact with soil.

13. DISPOSAL CONSIDERATIONS

Disposal: Use up product completely. Do not allow product or container to contaminate natural streams, drains or other waterways. Dispose of packaging 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 Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail
Packing Group: Not applicable
Special precautions: Not applicable
Hazchem Code: Not applicable

Product: BioAg Roots and Shoots®
Issued: 10 -12-2008 **Version:** 3

MATERIAL SAFETY DATA SHEET



Better soils. Better crops. Better stock.™

15. REGULATORY INFORMATION

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

NON – HAZARDOUS SUBSTANCE

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

NON – DANGEROUS GOODS

Poisons Schedule: None allocated

16. OTHER INFORMATION

Reason(s) for issue: Revised primary MSDS. Minor product changes

This MSDS 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 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 Ltd via the contact details listed on Page 1.

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

Product: BioAg Roots and Shoots®
Issued: 10 -12-2008 **Version:** 3