



Plant Health Products (Pty) Ltd

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MATERIAL SAFETY DATA SHEET

Product Name: Eco-Rhiz Soya

1. Product and Company Identification

Supplier/Manufacturer: Plant Health Products (Pty) Ltd
P.O. Box 207
Nottingham Road 3280
South Africa

Telephone no.: 27 (0)33 2666130
Fax. No.: 27 (0)33 2666130

2. Composition/Information on Ingredients

Product description: Bacterial inoculant for soybeans (*Bradyrhizobium japonicum* strain WB74) (live) in an inert organic carrier.

Dangerous ingredients: None

3. Hazards Identification

Important hazards: None

4. First Aid Measures

Inhalation: Remove to fresh air. See a doctor if an allergic reaction occurs

Skin Contact: Wash with water

Eye Contact: Flush with water

Ingestion: Drink water

5. Fire Fighting Measures

Type of material: Combustible solid

Extinguishing Media: Water, Foam, Carbon dioxide, etc

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide

6. Accidental Release Measures

- Environmental precautions:** Avoid infiltration of large volumes into drains, surface water, groundwater and soil.
- Personal precautions:** None
- Destruction and clean up:** Sweep or vacuum into a suitable container for disposal and wash area with water.
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7. Handling and Storage

- Handling:** Ensure adequate ventilation when handling.
- Storage:** Must be stored under cool, dry conditions between 5 and 20°C (Preferably 10°C)
- Incompatible materials:** Bactericides, antibiotics, sterilants and all toxic materials.
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8. Exposure Controls/ Personal Protection

- TLV:** 2 mg/m³
- Technical measures/precautions:** Adequate ventilation
- Personal protection**
- Eye Protection:** The product is not a skin irritant.
The product may cause slight eye irritation. Safety goggles are recommended.
- Skin and body protection:** The product is not a skin irritant although an allergic reaction may occur in sensitive people. Wash with soap and water. See a doctor if reaction persists
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9. Physical and Chemical Properties

- Physical state:** Wet granular formulation
- Colour:** Pink
- Odour:** Slightly sweet
- pH** 6-8
- Moisture content:** approx 70%
- Density:** Approx 0,8g/cc
- Solubility:** Insoluble
- Solubility in organic solvents:** Insoluble
- Partition coefficient:** Not applicable
- Vapour pressure:** Not applicable
- Boiling point:** Not applicable
- Melting point:** Not available
- Flash point:** Not available
- Explosive properties:** Not explosive
- Auto-ignition temp:** Not available
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10. Stability and Reactivity

The bacterial inoculant will lose viability with time. An expiry date of 12 months is stamped on each box. Storage below 20°C and above 5°C.

Hazardous decomposition products:	None identified
Materials to avoid:	Bactericides, antibiotics, sterilants and toxic compounds
Conditions to avoid:	Avoid very low or high temperatures.

11. Toxicological Information

LD₅₀:	>5000mg. <i>Bradyrhizobium japonicum</i> strains are not toxic or pathogenic.
Local effects	May cause allergic reaction in sensitive persons
Skin irritant:	Does not cause skin irritation
Eye irritant:	May cause slight eye irritation

12. Ecological Information

Fish toxicity:	No known toxicity
Biodegradability:	The bacterial inoculant is biodegradable. The carrier is an inert organic substance.

13. Disposal Considerations

The product may safely be disposed of in a land-fill or incinerated.

14. Transport Information

There are no transport regulations for this product.

15. Regulatory Information

Symbol:	Not applicable to a living organism
Risk Phrases:	None – None toxic
Safety Phrases:	Keep locked up and out of reach of children, uninformed persons and animals Wash hands after use
National Legislation:	Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act 36 of 1947)

16. Packing and Labelling

10 x 50g plastic sachets packed in a cardboard box. For bulk transporting, 9 of these boxes are packed into a larger cardboard box. The sachets and box are labelled according to South African regulations and guidelines (Act 36 of 1947).

17. Other Information

The information contained in this fact sheet is partly derived from the information in the carrier safety data sheet, and from information available regarding strains of the bacterium *Bradyrhizobium japonicum*.

All information provided in this Material Safety Data Sheet (MSDS) is based on the current state of scientific and technical knowledge and is presented in good faith and believed to be correct. It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come into contact with this product.

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