



# Plant Health Products (Pty) Ltd

P.O. Box 207, Nottingham Road, 3280, South Africa

Tel: +27 33 266 6130 | Fax: +27 86 560 4767

E-mail: info@plant-health.co.za

Website: www.plant-health.co.za

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## MATERIAL SAFETY DATA SHEET

**Product Name: Eco-Bb**

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### 1. Product and Company Identification

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

**Telephone no.:** 27 33 266 6130

**Fax no.:** 27 86 560 4767

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### 2. Composition/Information on Ingredients

**Product description:** Fungus: *Beauveria bassiana* strain R444 spores (live) in a carrier  
Carrier description: Food and medicinal grade products

**Hazardous ingredients:** None

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### 3. Hazards Identification

**Important hazards:** None

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### 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

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### 5. Fire Fighting Measures

**Type of material:** Non-combustible solid. 1.5% petroleum oil (medicinal).

**Extinguishing Media:** Water, Foam, Carbon dioxide, etc

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide

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### 6. Accidental Release Measures

**Environmental precautions:** Avoid infiltration of large volumes into drains, surface water, groundwater and soil.

**Personal precautions:** Respiratory protection and safety goggles are recommended.

**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

<b>Handling:</b>	Respiratory protection is recommended.
<b>Storage:</b>	Must be stored under cool, dry conditions between 5 and 20°C (Preferably 10°C)
<b>Incompatible materials:</b>	Fungicides and all toxic materials.

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## 8. Exposure Controls/ Personal Protection

<b>TLV:</b>	2 mg/m <sup>3</sup>
<b>Technical measures/precautions:</b>	Adequate ventilation
<b>Personal protection:</b>	
<b>Respiratory Protection:</b>	Respiratory protection is recommended.
<b>Hand protection:</b>	The product is not a skin irritant.
<b>Eye Protection:</b>	The product may cause slight eye irritation. Safety goggles are recommended.
<b>Skin and body protection:</b>	The product is not a skin irritant although an allergic reaction may occur in sensitive people.

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## 9. Physical and Chemical Properties

<b>Physical state:</b>	Fine granular
<b>Colour:</b>	White
<b>Odour:</b>	Slight mushroom odour
<b>pH:</b>	6.7 (conc. suspension in distilled water)
<b>Moisture content:</b>	approx 3%
<b>Density:</b>	Approx 0.4 g/cc
<b>Solubility:</b>	Partly soluble
<b>Solubility in organic solvents:</b>	Partly soluble
<b>Partition coefficient:</b>	Not applicable
<b>Vapour pressure:</b>	Not applicable
<b>Boiling point:</b>	Not applicable
<b>Melting point:</b>	Not applicable
<b>Flash point:</b>	Not flammable
<b>Explosive properties:</b>	Not explosive
<b>Autoignition temp:</b>	Not available

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## 10. Stability and Reactivity

The fungal spores lose viability with time. An expiry date of twelve months is stamped on each container. Storage below 20°C and above 5°C recommended, preferably at 10°C.

**Hazardous decomposition products:** None identified



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**Materials to avoid:** Fungicides and toxic compounds  
**Conditions to avoid:** Avoid very low or high temperatures.

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## **11. Toxicological Information**

**LD<sub>50</sub>:** *Beauveria bassiana* strains are not toxic or pathogenic at 1 x 10<sup>8</sup> cfu per test mouse. The carrier is a common food ingredient and is non-toxic. The oil is medicinal oil.

**Local effects:** May cause allergic reaction in sensitive persons

**Skin irritant:** Does not cause skin irritation

**Eye irritant:** May cause slight eye irritation

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## **12. Ecological Information**

**Fish toxicity:** No known toxicity

**Biodegradability:** The fungal spores and carrier are biodegradable.

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## **13. Disposal Considerations**

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

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## **14. Transport Information**

There are no transport regulations for this product.

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## **15. Regulatory Information**

**Symbol:** Not applicable to a living organism

**Risk Phrases:** None – Non 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)

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## **16. Packaging and Labelling**

Product is packaged in 300g wide-mouthed plastic bottles sealed with a foil laminate seal or in 1 kg boxes with a thin plastic liner. For bulk transporting, 24 of these bottles or 9 boxes are packed into a cardboard box. The bottles are labelled according to South African regulations and guidelines (Act 36 of 1947).

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## **17. Other Information**

The information contained in this fact sheet is derived from information pertaining to various strains of *Beauveria bassiana* and from the carrier description.

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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