



# Plant Health Products (Pty) Ltd

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## MATERIAL SAFETY DATA SHEET

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**Product Name: Eco-77**

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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 : 27 (0) 33 2666130

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### **2. Composition/Information on Ingredients**

Product description: Fungus (*Trichoderma harzianum* strain 77B) spores in an inert carrier (pyrofil i.e. aluminium silicate)  
Dangerous 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**

Noncombustible solid  
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 without creating dust 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. Respiratory protection is recommended.
Storage:	Must be stored under cool, dry conditions between 5 and 20°C (Preferably 10°C)
Incompatible materials:	Fungicides and all toxic materials.

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## **8. Exposure Controls/ Personal Protection**

TLV:	2 mg/m <sup>3</sup>
Technical measures/precautions:	Adequate ventilation
Personal protection:	
Respiratory Protection:	Respiratory protection is recommended.
Hand protection:	The product is not a skin irritant.
Eye Protection:	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.

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## **9. Physical and Chemical Properties**

Physical state:	Powder
Colour:	light green/grey
Odour:	Very slight odour
pH	5
Moisture content:	Approx 1%
Density:	Approx 0,7g/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 flammable
Explosive properties:	Not explosive
Autoignition temp:	Not available

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## **10. Stability and Reactivity**

The fungal spores lose viability with time. An expiry date of six months is stamped on each container. Storage below 20°C and above 5°C.

Hazardous decomposition products: None identified  
Materials to avoid: Fungicides and toxic compounds  
Conditions to avoid: Minimize dust formation. Avoid very low or high temperatures.

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## **11. Toxicological Information**

LD<sub>50</sub>: *Trichoderma harzianum* strains are not toxic or pathogenic at 1 x 10<sup>8</sup> cfu per test mouse.  
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 are biodegradable. The pyrofil (aluminium silicate) carrier is an inert substance.

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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 – None toxic  
Safety Phrases: Keep locked up and out of reach of children, uninformed persons and animals  
Avoid inhalation of the dust  
Wash hands after use  
National Legislation: Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act 36 of 1947)

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## **16. Packing and Labelling**

Product is packaged in 250g wide-mouthed plastic bottles. For bulk transporting, 24 of these bottles 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 partly derived from the information in the pyrofil safety data sheet, from information available regarding strain 77B of *Trichoderma harzianum* and from data relating to other strains of *Trichoderma*.

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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