



# Adermatt

Madumbi



## Eco-77<sup>®</sup>

Reg. No. L7495, Act 36 of 1947

Bio Crop Protection | Root Health | Plant Vitality



## Eco-77®

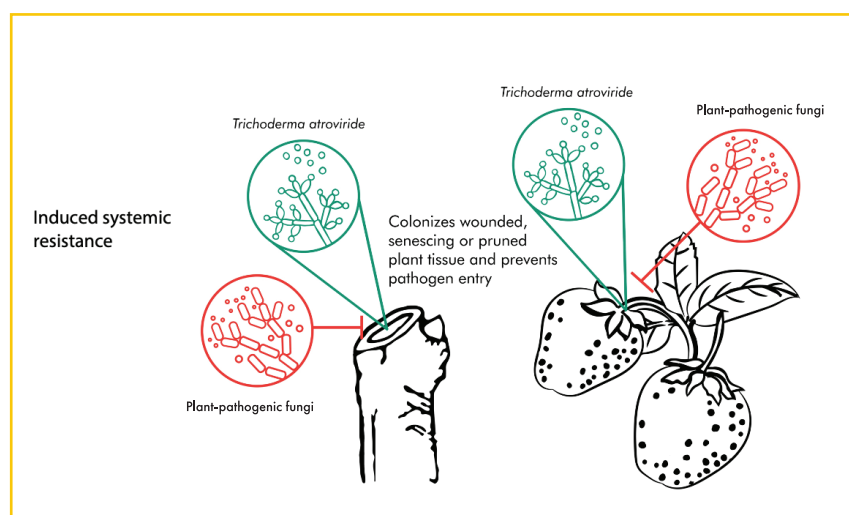
Reg. No. L7495, Act No. 36 of 1947

A biofungicide for the protection of pruning wounds on grape vines against *Eutypa* and for the suppression on *Botrytis* on crops as specified.

### Why use Eco-77®?

Features	Benefits
A strain of <i>Trichoderma</i> specifically isolated from above ground plant parts in South Africa.	Well adapted to local above ground conditions and can survive and grow in these environments.
Isolated from commercial vineyards.	With the original isolate coming from commercial vineyards, which had been treated with conventional chemical spray programs, the isolate in Eco-77® shows some surprising compatibilities with chemical inputs e.g. elemental sulfur (a further list of compatible chemical actives is available through your local representative).
Grows and colonizes surfaces of wounds.	Provides long term preventative control on wound surfaces. In grape pruning wounds Eco-77® could still be isolated a year after application.
High spore concentration, spore viability and formulation stability.	Good efficacy and consistent performance of the product when applied correctly.

### Mode of Action:

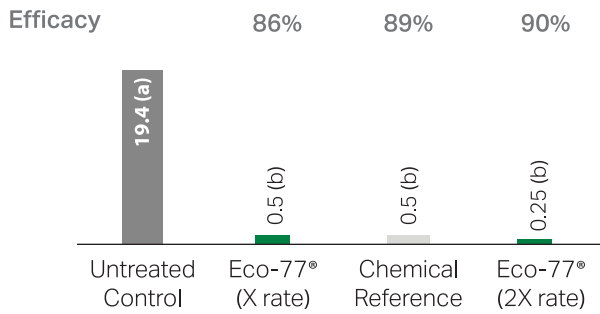


Eco-77® contains a wettable powder formulation of the fungus *Trichoderma atroviride* strain 77B, isolated from grapes in the Western Cape. The strain is well adapted to local South African conditions and is very persistent.

Eco-77® offers a low cost, preventative control option for wound and pruning disease control.

# Trial data

## Botrytis severity (%) on grape bunches

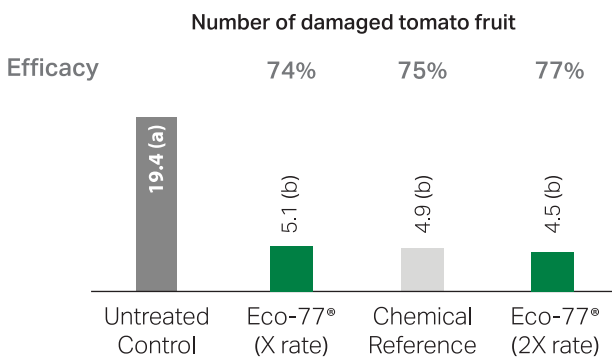


Eco-77® treated grapes. *Botrytis* infection was minimal.



Standard chemical treatment. *Botrytis* infected grapes can be clearly seen.

## Botrytis cinerea on tomatoes (Canada, 2017)

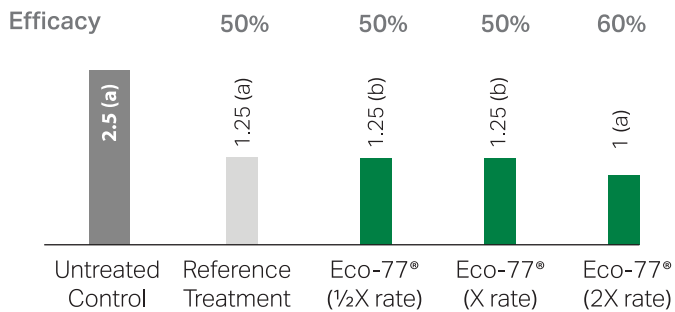


*Botrytis* infection on tomato fruit.

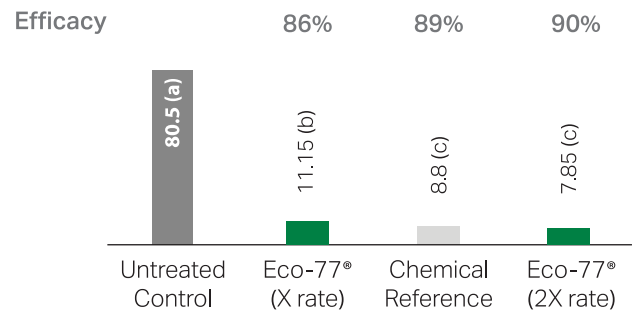


Healthy crop of tomatoes.

## Number of unmarketable bunches (Onion)



## Botrytis severity (%) on onion leaves



## Registered uses:

Crop	Dosage	Instructions
<i>Eutypa</i> Grape vine pruning wounds	Apply at a rate of 50 g per 100 litres of water.	Apply as a directed spray onto each pruning wound immediately after pruning.
<i>Botrytis</i> Tunnel or greenhouse tomato and cucumber	Apply at a rate of 50 g per 100 litres of water or 250 - 500 g/ha.	Apply as a full cover spray when disease is first noticed. Repeat as needed.
<i>Botrytis</i> Table and wine grapes	Apply at a rate of 250 – 500 g/ha.	First application at full flowering, repeat at pea-berry, veraison and 7 days pre-harvest.
<i>Botrytis</i> Onions	Apply at a rate of 250 – 500 g/ha.	First application at onset of bulbing, repeat at onset of leaf fall, subject to disease incidence or severity.

**Available in:** 250 g, 1 kg, 5 kg

### MIXING AND APPLICATION INSTRUCTIONS

- Mix at a rate of 50 g/100 L water and apply sufficient volume to obtain full cover of the foliage. If water volume exceeds 1000 litres per ha, apply a maximum of 500 g per ha. Refer to **REGISTERED USAGES** table for further dosage instructions.
- Do not mix in containers that have previously been used for toxic substances.
- Wash mixing containers well with soap and water before use.
- Preferably apply the product when humidity is high, preferably in the late afternoon.
- Good spray coverage is essential.
- Shake or stir the product mixture frequently during use to avoid settling out of the product.
- Do not apply when temperatures are below 15 °C or above 35 °C.
- Avoid pH extremes (less than 3 or higher than 8).

- **Used, researched and trusted**
- **Suitable for organic use (EcoCert certified for EU and NOP)**
- **Friendly to beneficials i.e. Ladybirds, parasitoid wasps, lacewings, bees, earthworms, birds, fish and daphnia**
- **No withholding period or maximum residues (MRL)**

Marketed and Distributed by:



Attested by:



Product suitable for use in Organic Farming in accordance with: Regulations (EU) No 2018/848 and 2021/1165 and the NOP Regulation.  
**Controlled by ECOCERT F-32600**

Manufactured and Registered by:



Healthy Food and Healthy Environment, for all

**T:** +27 (0) 33 342 3984  
**E:** support@andermatt.co.za



**W:** www.andermatt.co.za  
Andermatt Madumbi App

**ONLINE SHOP**



AMAD 10924