

READ THE LABEL BEFORE USE. SHAKE THE BOTTLE WELL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



Fungicide

THIAZOLE 500 SC

Reg. No. L 7832 Act No. 36 of 1947

3: 27/7/2022 – Aug2022

A suspension concentrate fungicide for the control of post-harvest rot in crops as listed and the disinfection of empty cold stores.

## ACTIVE INGREDIENT

thiabendazole (benzimidazole) 500 g/l

GROUP

1

FUNGICIDE



WARNING

### Hazard Statements:

May be harmful in contact with skin.  
Harmful if inhaled.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

### Precautionary Statements:

IF ON SKIN: Get medical help.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.  
Avoid release into the environment.



**villa**



UN Number: 3082

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07

PO Box 801, Kempton Park, 1620

Tel. (011) 396 2233

Website: [www.villacrop.co.za](http://www.villacrop.co.za)

### 24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

**THIAZOLE 500 SC**

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FRAC FUNGICIDE GROUP CODE: 1

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**WARNINGS****Hazard statements:**

May be harmful in contact.
Harmful if inhaled.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store the product inside the original container and always keep tightly closed.
- Store in a cool, dry, well-ventilated place, away from food, seed and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

**PRECAUTIONS****Precautionary statements:**

Avoid breathing dust, mists and spray.
Use only outdoors or in a well-ventilated area.
Avoid release into the environment.
IF ON SKIN: Get medical help.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
Collect spillage.
Dispose of contents/container to suitable landfill in accordance with local regulations.

- Avoid contact with skin and eyes.
- Wear a face shield and rubber gloves when handling the product.
- Wash with soap and water after use and after accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- In case of eye contamination, rinse the eyes thoroughly with a stream of clean water, for at least 20 minutes. If irritation persists obtain medical aid.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Thoroughly clean spraying equipment directly after use and dispose of wash water, where it will not contaminate food, grazing, boreholes, rivers or dams.

- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Prevent contamination of food, feed, drinking water and eating utensils.

<b>Relevant hazardous components</b>	
<b>Thiabendazole</b>	500 g/l
Anti-freeze additive	<10 g/l

### **FIRST AID TREATMENT**

- Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
- **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. If irritation persists obtain medical attention.
- **Eyes:** Immediately flush eyes with clean water for at least 15 to 20 minutes. Lift eyelid (s) to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing.
- **Ingestion:** If the person is alert, rinse mouth thoroughly with water and administer activated charcoal. Do not give anything by mouth to an unconscious person. Seek medical attention or call a poison control centre for treatment advice if you feel unwell. Do NOT induce vomiting unless instructed to do so by a poison control centre or doctor.

### **RESISTANCE WARNING**

**THIAZOLE 500 SC** is a group code 1 fungicide. Any fungus population may contain individuals naturally resistant to **THIAZOLE 500 SC** and any other group code 1 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **THIAZOLE 500 SC** or any other group code 1 fungicide.

To delay fungicide resistance:

- avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes,
- for tank mixing or alternation with products in fungicide group code M, refer to applicable individual product labels,
- integrate other control methods (chemical, cultural, biological) into disease control programmes.

For specific information on resistance management contact the registration holder of this product.

### **Mode of action:**

**Thiabendazole** is a systemic fungicide with protective and curative action. It inhibits  $\beta$ -tubulin assembly.

### **USE RESTRICTIONS**

- **Avocados:** Fruit waxed and then wrapped, may develop internal browning.

### **DIRECTIONS FOR USE: Only use as indicated.**

#### **Compatibility:**

- The compatibility of **THIAZOLE 500 SC** may be influenced by several factors. As factors influencing compatibility may vary, a physical compatibility test must always be performed, before such tank mixture is sprayed.
- When **THIAZOLE 500 SC** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

### **Mixing instructions:**

- Half fill the spray tank with clean water.
- Add the required amount of **THIAZOLE 500 SC** to the water, while stirring.
- Fill the spray tank with water to the required level, while maintaining agitation, to ensure thorough mixing.
- Maintain agitation during application.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g., overnight.
- Ensure agitation during application, to keep the solution in suspension.

**APPLICATION RATES**

<b>Crop / Disease</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b><u>Apples and Pears</u></b> Blue mould & Grey mould	210 ml / 100 l water	<b><u>WARNING</u></b> <b>Do not use on fruit, which is destined for export.</b> <u>Apples:</u> Apply the first treatment within 24 hours after harvesting and a second treatment after cold storage. Dip in the suspension solution for 30 seconds or spray/flood for maximum three (3) minutes. <u>Pears:</u> Once off treatment within 24 hours after harvesting.
<b><u>Avocados</u></b> Anthracnose & Stem-end rot	Apply to the fruit immediately after harvesting. Ensure thorough drying of treated fruit, before packing and storing.	
	270 ml / 100 l water <b>PLUS</b> 500 ml light mineral oil	<u>Dip Treatment:</u> Dip fruit for 20 seconds.
	70 ml / 25 l wax	<u>Wax Treatment:</u> Apply in the water emulsion wax. Ensure thorough coverage with the wax.
<b><u>Bananas</u></b> Collar rot	45 ml / 100 l water	Apply to the fruit after washing, cleaning and trimming.
<b><u>Citrus</u></b> Blue mould, Green mould & Stem-end rot	Treat the fruit after washing and cleaning.	
	400 ml / 100 l water	Apply by means of spraying or brushing the suspension onto the fruit.
	200 ml / 25 l wax	Apply in the water emulsion wax by means of a special wax applicator.
<b><u>Disinfection of empty cold stores</u></b>	20 ml / 10 water	Apply as a wall and floor wash, to help with disinfection of <i>Aspergillus</i> spp., <i>Botrytis</i> spp. and <i>Penicillium</i> spp.
<b><u>Mushrooms</u></b> Dry bubble, Wet bubble, Cobweb & Plaster mould	230 to 300 ml / 100 l water	<u>Drench treatment:</u> Apply 100 litres suspension solution per 80 m <sup>2</sup> of a mushroom bed. Use the high dosage rate after casing, and the low dosage rate between breaks.
<b><u>Musk melons</u></b> Post harvest rot	80 ml / 25 l wax	Apply in the water emulsion wax. Ensure thorough coverage of the fruits with the wax. Ensure that the treated fruit are thoroughly drained and dry, before packing. This treatment will <b>not</b> control bacterial diseases.
<b><u>Pineapples</u></b> Post harvest rot	500 ml / 100 l water	Apply within 24 hours after harvesting. Dip the fruit for 30 seconds. Avoid wetting the tops of the pineapples. Top up the dip mixture with 500 ml per 100 litres water.

<b>Crop / Disease</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b>Potatoes</b> <b>Seed potatoes:</b> <i>Fusarium</i> dry rot, Gangrene & Suppression of Black scurf ( <i>Rhizoctonia</i> )	Apply immediately after lifting. Treat potato tubers (whole). Do not use bags in the dip treatments. Change the dipping mixture frequently. Agitate tubers during dipping, to remove air bubbles. Ensure that the tubers are completely dry, before storing.	
	2100 to 4200 ml / 100 l water	<u>Spray application:</u> Spray on a running conveyor belt system using the necessary misting equipment. Apply 4 litres suspension at the lower rate, or 2 litres suspension at the higher rate, per one ton of potatoes.
	400 ml / 100 l water	<u>Dip Treatment:</u> Dip for 5 minutes. Ensure that the tubers are clean, before dipping. Top up the dip mixture with 400 ml per 100 litres water.
	90 ml / ton	<u>Waterless Spray:</u> Spray tubers on a running conveyor belt system, using the MANTIS ULV applicator.
Stem cancer & Black scurf ( <i>Rhizoctonia</i> )	Apply to the tubers before planting.	
	800 ml / 100 l water	<u>Dip Treatment:</u> Dip for 5 minutes. Ensure that the tubers are clean, before dipping. Top up the dip mixture with 800 ml per 100 litres water.
	135 ml / ton	<u>Waterless Spray:</u> Spray tubers on conveyor belt system using the MANTIS ULV applicator. <b>Not recommended for tubers with severe Black scurf infection.</b>
<b>Table Potatoes:</b> <i>Fusarium</i> dry rot	Treat immediately after lifting. Ensure that the tubers are completely dry before storing.	
	315 to 630 ml / 100 l water	<u>Spray application:</u> Spray on conveyor belt system using the necessary misting equipment. Apply 4 litres suspension at the lower rate, or 2 litres suspension at the higher rate, per one ton of potatoes.
	400 ml / 100 l water	<u>Dip Treatment:</u> Dip for 2 minutes. Clean the tubers before dipping treatment. Top up the dip mixture with 400 ml per 100 litres water.
	90 ml / ton	<u>Waterless Spray:</u> Spray the tubers on conveyor belt system using the MANTIS ULV applicator.