

**DANGEROUS POISON**

**KEEP OUT OF REACH OF CHILDREN**

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

**TITAN**

# **CARBENDAZIM 500**

## **FUNGICIDE**

ACTIVE CONSTITUENT: 500g/L CARBENDAZIM

GROUP **1** FUNGICIDE

A broad spectrum, systemic fungicide for the control of certain fungal diseases in various crops as specified in the Directions For Use.

APVMA Approval No.: 66080/142549

Pack Size: 5L-1000L



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IN A TRANSPORT EMERGENCY

**DIAL 000**

POLICE OR FIRE BRIGADE

TRANSPORT AND HANDLING  
NOT A DANGEROUS GOOD  
ACCORDING TO THE AUSTRALIAN  
DANGEROUS GOODS (ADG) CODE  
FOR TRANSPORT BY ROAD AND RAIL

## DIRECTIONS FOR USE

**Restraint:** DO NOT apply to turf, grapes, cucurbits (including melons, citrus fruit, custard apple, mango, pome fruit (apples or pears or stone fruit (including cherries)).

## SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://apvma.gov.au/spraydrift)

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

1. TREE CROPS					
RATE					CRITICAL COMMENTS
This table shows rates for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.					For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Macadamia Nuts	Macadamia Husk Spot ( <i>Pseudocercospora</i> spp.)	ALL STATES	50mL plus a wetting agent at 100mL/100L	14 days (H), 4 weeks (G)	Apply at 5 and 8 weeks after main flowering – Stage 2 anthesis (white flowering stage). Remove any fallen nuts from under trees prior to spraying. DO NOT apply more than 2 applications of TITAN Carbendazim 500 Fungicide per season.
2. OTHER CROPS					
CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Chickpeas, Faba Beans, Lentils and Vetch	Chocolate Spot ( <i>Botrytis fabae</i> ), Grey Mould ( <i>Botrytis cinerea</i> )	ALL STATES	500mL/ha	4 weeks (H, G)	Apply a maximum of two consecutive applications at a 14 day interval. Apply a minimum of 100L of water per hectare.

## NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

### WITHHOLDING PERIODS:

**Macadamia Nuts: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

**DO NOT ALLOW LIVESTOCK TO GRAZE VEGETATION IN TREATED PLANTATIONS FOR 4 WEEKS AFTER APPLICATION.**

**DO NOT CUT VEGETATION IN TREATED PLANTATIONS FOR STOCKFEED FOR 4 WEEKS AFTER APPLICATION.**

**Chickpeas, Faba Beans, Lentils and Vetch: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.**

**DO NOT GRAZE OR CUT FOR STOCKFEED FOR 4 WEEKS AFTER APPLICATION.**

### EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with TITAN Carbendazim 500 Fungicide. If you are growing produce for export, please check with TITAN AG for the latest information on MRLs and import tolerances BEFORE using TITAN Carbendazim 500 Fungicide.

## GENERAL INSTRUCTIONS

### MIXING

SHAKE WELL BEFORE USE. TITAN Carbendazim 500 Fungicide is a liquid suspension to be mixed with water for application as a spray. Add the required quantity of TITAN Carbendazim 500 Fungicide to a partly filled spray tank and agitate. Complete filling while agitating. Ensure the spray mixture is properly agitated before restarting after stoppage.

### ADDITION OF WETTING AGENT

The addition of a wetting agent eg. Wetspray, to the spray mixture improves the distribution of the spray on hard to wet plants.

### APPLICATION

#### 1. TREE CROPS

**Dilute Spraying:** Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions For Use table for each 100L of water. Spray to the point of run-off. The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

**Concentrate Spraying:** Use a sprayer designed and set up for the concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop

canopy using your chosen water volume. Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate spraying can then be calculated in the following way:

#### EXAMPLE ONLY

1. Dilute spray volume as determined above: For example 1500L/ha.
2. Your chosen concentrate spray volume: For example 500L/ha.
3. The concentration factor in this example is:  $3 \times$  (ie  $1500L \div 500L = 3$ ).
4. If the dilute label rate is 10mL/100L, then the concentrate rate becomes  $3 \times 10$ , that is 30mL/100L of concentrate spraying.

The chosen spray volume, amount of product per 100L of water and the sprayer set up and operation may need to be changed as the crop grows.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow Industry Best Practices.

### COMPATIBILITY

TITAN Carbendazim 500 Fungicide is compatible with many insecticides and fungicides, however to be sure of compatibility with any particular product check with your local dealer first.

#### 2. OTHER CROPS

**High Volume (Dilute Spraying):** Apply in sufficient water to thoroughly wet the crop to the point of run-off. The water volume should increase as the crop size and bulk increases.

**Low Volume (Concentrate Spraying):** Where a rate per hectare (ha) is specified, apply in sufficient water to ensure thorough, even coverage of all plant parts.



## FUNGICIDE RESISTANCE WARNING

TITAN Carbendazim 500 Fungicide is a member of the Methyl Benzimidazole Carbamate group of fungicides. For fungicide resistance management TITAN Carbendazim 500 Fungicide is a Group 1 fungicide. Some naturally occurring fungal populations resistant to TITAN Carbendazim 500 Fungicide and other Group 1 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by TITAN Carbendazim 500 Fungicide and other Group 1 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Carbendazim 500 Fungicide to control resistant fungi.

### PRECAUTION

Keep away from foodstuffs.

**Re-Entry Period:** DO NOT allow entry into treated areas until spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each days use.

### PROTECTION OF LIVESTOCK

TITAN Carbendazim 500 Fungicide is of low toxicity to bees.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life with long lasting effects. DO NOT contaminate wetlands or watercourses with this product or used containers.

### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

**Drift Warning:** DO NOT apply under weather conditions or from spraying equipment that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures.

### STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

**drummuster containers:** This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple-rinse container for disposal. Dispose of rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemical on-site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

**110L (mini-bulk returnable containers) only:** DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the container have been used, please return the container to the point of purchase. The container remains the property of TITAN AG Pty Ltd.

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**Other refillable containers only:** Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs TITAN AG Pty Ltd should be advised immediately. This intermediate bulk container is reusable and remains the property of TITAN AG Pty Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to TITAN AG for cleaning, relabelling and refilling.

### SAFETY DIRECTIONS

Very dangerous, particularly the concentrate. Poisonous if absorbed by skin contact, inhaled or swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When opening the container and preparing spray, wear elbow-length chemical resistant gloves and face shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use, wash gloves, face shield and contaminated clothing.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

**WARNING: CONTAINS CARBENDAZIM WHICH CAUSES BIRTH DEFECTS AND IRREVERSIBLE MALE INFERTILITY IN LABORATORY ANIMALS. AVOID CONTACT WITH CARBENDAZIM.**

### SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Carbendazim 500 Fungicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit titanag.com.au

**CONDITIONS OF SALE:** TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: May cause genetic defects. May damage fertility or the unborn child. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF exposed or concerned: Get medical advice/attention. Collect spillage. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

