

# DANGEROUS POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

# Procymidone 500

Fungicide

ACTIVE CONSTITUENT: 500g/L PROCYMIDONE

GROUP **2** FUNGICIDE

For the control of certain fungal diseases on various crops  
as per the Directions for use.

APVMA Approval No.: 65892/52791

Pack Size: 5L-200L



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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:

RATE					CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/Application section					
CROP	DISEASE	STATE	RATE	WHP	
Canola	Sclerotinia Rot ( <i>Sclerotinia sclerotiorum</i> )	ALL STATES	1L/ha <u>Ground Application</u> in 100L/ha water plus non-ionic surfactant (600g/L) at 20mL/100L water  <u>Aerial Application</u> in minimum 40L/ha water plus non-ionic surfactant (600g/L) at 20mL/100L water	Harvest: Nil  Grazing or cutting for stock food: 9 weeks	For 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.  Spraying should occur before petals begin to drop and preferably prior to rainfall event during the early-mid flowering stage of crop growth. Infection of canola stems and branches occurs when infected petals fall and lodge in the lower canopy of the plant, particularly during wet or humid conditions. The objective of TITAN Procymidone 500 Fungicide is to treat as many petals as possible prior to petal drop and before pods set. Application should, therefore, take place by 30% bloom (ie. 30% of flowers open on the main stem), at which stage the maximum number of flowers are open at one time and little petal fall has occurred. Application should not be made after mid-flowering. For aerial application to a canola crop that is directly adjacent to a downwind paddock where grazing stock may be present, use coarse nozzle settings and observe a 20m buffer to that paddock in order to minimise drift.
Lentils	Grey Mould ( <i>Botrytis cinerea</i> , <i>Botrytis fabae</i> )	ALL STATES	500mL/ha Apply in a minimum of 100L/ha water for ground application or 45L/ha for aerial application	Harvest: 21 days  Grazing or cutting for stock food: 21 days	Monitoring of crops for disease should commence at 6-8 weeks after crop emergence. Early application of fungicide is critical in restricting the development and spread of Grey Mould. The first application of TITAN Procymidone 500 Fungicide is recommended immediately <b>prior to canopy closure</b> to ensure good spray penetration into the crop. Subsequent monitoring of crop and environmental conditions will help determine timing of later applications. Other critical growth stages for disease control are: <ul style="list-style-type: none"> <li>• Mid-flowering/early pod fill</li> <li>• End of flowering/late pod fill</li> </ul> Later fungicide applications may be required if conditions are conducive to disease development. Apply no more than two consecutive sprays of TITAN Procymidone 500 Fungicide with fungicides with different modes of action. TITAN Procymidone 500 Fungicide will not provide effective control of Ascochyta Blight ( <i>Ascochyta lentis</i> ). For aerial application use medium to coarse nozzle settings in order to minimise drift.
Grapevines (wine grapes only)	Grey Mould ( <i>Botrytis cinerea</i> )	ALL STATES	<u>Dilute Spraying</u> 75mL/100L  <u>Concentrate Spraying</u> Refer to the <b>Mixing/ Application</b> section	9 days	DO NOT use on table grapes or grapes used for the production of dried fruit. Use on wine grapes only. Apply at the following growth stages: 1. 80% cap fall. 2. Just prior to bunch closure. 3. At varaison (when sugar content rises). 4. 2-3 weeks pre-harvest. To ensure complete bunch wetting add Agra* at 10-20mL/100L. DO NOT apply at concentrate rates greater than 150mL/100L.
Stone Fruit	Blossom Bight ( <i>Monilinia laxa</i> )	QLD, NSW, VIC, TAS, SA only	<u>Dilute Spraying</u> 50 to 75mL/100L  <u>Concentrate Spraying</u> Refer to the <b>Mixing/ Application</b> section		DO NOT APPLY AFTER SHUCK FALL. Apply at 10% blossom, full bloom, late petal and shuck fall. If weather conditions particularly favour Blossom Bight use higher rate. <b>NSW, SA, Qld and Vic only:</b> Where <i>Monilinia laxa</i> is known to occur apply an additional early spray at pink bud. DO NOT apply at concentrate rates greater than 150mL/100L.
Navy Beans	Sclerotinia Rot ( <i>Sclerotinia sclerotiorum</i> )	QLD, NSW, VIC, SA, WA, NT only	100-150mL/100L		Use 1000L water/ha or 1-1.5L/ha. Apply in sufficient water to provide good coverage. Spray when 75% of plants first show open blossom and again 7 days later. Use the higher rate when disease pressure is high.
Faba beans	Chocolate Spot ( <i>Botrytis fabae</i> )	NSW, VIC, TAS, SA, WA only	50mL/ha <u>Ground Application</u> in 100L/ha		Inspect crop regularly on the mid to lower leaves, where disease will occur first. Apply spray in the early stages of attack, i.e. 1-2 spots per leaflet and when weather conditions favour the disease. These are temperatures between 15 and 20°C (Tasmania 10-20°C) and moist humid conditions (66% RH and over). If these conditions recur, repeat applications at intervals of 2-3 weeks will be necessary to protect new growth.

TREE AND VINE CROPS – *continued*

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Onions	White Rot ( <i>Sclerotinia cepivorum</i> )	QLD, NSW, VIC, TAS, SA, NT only	20mL/kg seed	4 weeks	<p><b>Seed Treatment</b></p> <p>a) Apply 20mL of TITAN Procymidone 500 Fungicide to 1kg of seed and mix thoroughly until seeds are wet.</p> <p>b) Spread the seed and allow to dry.</p> <p>c) Sow within 14 days of treatment.</p> <p><b>Note:</b></p> <p>1. Seed treatment should be used in conjunction with soil applications of TITAN Procymidone 500 Fungicide to achieve satisfactory control of White rot of onions.</p> <p>2. <b>Caution:</b> Treated seed germinated poorly in cold, wet soil. Where these conditions occur, use a soil spray without seed treatment.</p> <p>3. <b>Warning:</b> Soil persistence of TITAN Procymidone 500 Fungicide can be reduced under alkaline soil conditions.</p>
	White Rot ( <i>Sclerotinia cepivorum</i> )	QLD, NSW, VIC, TAS, SA only	4L/ha		<p><b>In-Furrow Application:</b></p> <p>a) Thoroughly mix 4L of TITAN Procymidone 500 Fungicide with required quantity of fertiliser for 1 hectare.</p> <p>b) Apply fertiliser in a band no more than 2cm <u>directly</u> below seed.</p> <p><b>Note:</b></p> <p>1. Coarse sand or fine gravel can be substituted where fertiliser is not required.</p> <p>2. In-furrow application must be combined with seed treatment to achieve satisfactory results.</p> <p>3. <b>Warning:</b> Soil persistence of TITAN Procymidone 500 Fungicide can be reduced under alkaline soil conditions.</p>
	White Rot ( <i>Sclerotinia cepivorum</i> )	QLD, NSW, VIC, SA, NT only	2L/ha in a minimum of 250L of water		<p><b>Soil Spray:</b></p> <p>a) Apply to soil surface immediately after sowing and repeat application at 10 weeks after sowing.</p> <p>b) Disease control will be improved if the seed is treated with TITAN Procymidone 500 Fungicide prior to sowing.</p> <p>c) A further soil spray of 2L/ha may be necessary if frequent or extended periods of cool, moist conditions occur later in the season.</p> <p><b>Note:</b></p> <p>1. DO NOT spray directly over exposed seed in furrows before covering with soil.</p> <p>2. <b>Warning:</b> Soil persistence of TITAN Procymidone 500 Fungicide can be reduced under alkaline soil conditions.</p>
	White Rot ( <i>Sclerotinia cepivorum</i> )	QLD, NSW, VIC, SA only	1L/100L of water		<p><b>Transplant Dip:</b></p> <p>a) Dip seedlings for up to 4 hours in fungicide suspension before transplanting.</p> <p>b) A supplementary soil spray of 2L/ha may be necessary if frequent or extended periods of cool, moist conditions occur in the late season.</p>
Garlic	White Rot ( <i>Sclerotinia cepivorum</i> )	QLD, NSW, VIC, TAS, SA, NT only	10mL/kg	–	<p><b>Pre-plant clove treatment:</b></p> <p>Separate cloves, then add required amount of TITAN Procymidone 500 Fungicide and mix thoroughly.</p> <p><b>Warning:</b> Soil persistence of TITAN Procymidone 500 Fungicide can be reduced under alkaline soil conditions.</p>
Potato	Sclerotinia ( <i>Sclerotinia minor</i> )	ALL STATES	500mL-1L/ha	9 days	Apply at first spray just before hilling up. Apply a second spray just after hilling. Direct these sprays towards the stem bases and soil surface. Apply in sufficient water to ensure thorough coverage. Use the higher rate in situations where high disease levels are expected. Supplementary applications of 1L/ha to foliage at 14-21 day intervals may be necessary if conditions favour further development of diseases.
	Target Spot ( <i>Alternaria solani</i> )		500mL/ha		Apply in a program of sprays at 10 day intervals, beginning when warm weather conditions favour the disease and plants are 150-190mm high. Apply in sufficient water to ensure thorough coverage.
Ornamentals	Sclerotinia Rot ( <i>Sclerotinia sclerotiorum</i> )	NSW only	75-100mL/100L water	–	Apply to run-off. Use the higher rate when disease is severe. DO NOT apply to African Violet flowers.

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

**DO NOT USE THIS PRODUCT IN THE HOME GARDEN.**

**WITHHOLDING PERIODS:**

**FABA BEANS, NAVY BEANS, STONE FRUIT (Blossom Bight control), WINE-GRAPES, POTATOES: DO NOT HARVEST FOR 9 DAYS AFTER APPLICATION.**

**ONIONS: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.**

**LENTILS: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.**

**DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 21 DAYS AFTER APPLICATION.**

**CANOLA: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 9 WEEKS AFTER APPLICATION.**

## GENERAL INSTRUCTIONS

### FUNGICIDE RESISTANCE WARNING

TITAN Procymidone 500 Fungicide is a member of the dicarboximide group of fungicides. For **GROUP 2 FUNGICIDE** fungicide resistance management, this product is a Group 2 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 2 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by this product and other Group 2 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 this product to control resistant fungi.

### MIXING

This product is suitable for application through conventional spray equipment calibrated to ensure thorough crop coverage. Add the required amount of product to the partially filled spray tank with the agitator running and complete filling the tank with water.

DO NOT mix with alkaline water. Continue thorough agitation during spraying and after stoppage. DO NOT let prepared spray solution sit in the tank overnight.

### APPLICATION

#### 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 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 spray volume: For example 500L/ha
3. The concentration factor in this example is: 3X (i.e. 1500L divided by 500L = 3)
4. If the dilute label rate is 10mL/100L, then the concentrate rate becomes 3 x 10, that is 30mL/100L of concentrate spray.

- 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.
- DO NOT use a concentrate rate higher than specified in the Critical Comment.
- For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

### WETTING AGENT

Use a wetting agent at 10mL/100L of spray. With hard to wet crops the rate may be increased to 20mL/100L.

### COMPATIBILITY

This product is compatible with the following products: Agral\*, permethrin, propargite, pirimicarb and Anvil\*. Provided the spray tank has an adequate agitation system and the mixture is not allowed to stand without agitation, these mixtures are acceptable. Some settling will occur in mixtures with permethrin and propargite.

## PRECAUTIONS

DO NOT use treated Seed for animal or human consumption. DO NOT allow treated seed to contaminate grain/other seed intended for animal or human consumption. DO NOT feed treated seed, or otherwise expose, to wild or domestic birds. Treated seed when stored should be kept apart from other grain and the containers should be clearly marked to indicate the contents have been treated with this product. DO NOT re-use empty containers.

### RE-ENTRY PERIOD

**Re-entry:** DO NOT enter treated area for 9 days after spray application unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing), chemical resistant gloves and boots. Clothing must be laundered after each day's use.

**Re-entry (grapes only):** Grape girdling should not be performed 24 days after spray application unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing), chemical resistant gloves and boots. Clothing must be laundered after each day's use.

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

DO NOT contaminate streams, rivers or waterways with the chemical or used container or containers, which have held treated seed.

### STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, feedstuffs, seed and fertilisers.

**For Non-Refillable Containers:** Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or a designated collection point. 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.

**For Refillable Containers:** 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. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### SAFETY DIRECTIONS

**WARNING** – contains Procymidone, which causes birth defect in laboratory animals. Women of child bearing age should avoid contact with procymidone. Very dangerous, particularly the concentrate. Poisonous if absorbed by skin contact or inhaled or swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container, preparing product for use and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and disposable mist mask. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

### FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

### MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for TITAN Procymidone 500 Fungicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9986 2943 or visit [www.titanag.com.au](http://www.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.

\* Other trademarks

BATCH NO:
DATE OF
MANUFACTURE: