

# POISON

**KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

# Agro-Essence Propiconazole 250 EC Fungicide

**ACTIVE CONSTITUENT: 250 g/L PROPICONAZOLE  
SOLVENT: 600 g/L LIQUID HYDROCARBON**

<b>GROUP</b>	<b>3</b>	<b>FUNGICIDE</b>
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**For the control of certain fungal diseases of bananas, oats, peanuts, perennial ryegrass, pineapples, stone fruit, sugar cane, wheat and other crops as specified in the Directions for Use**

**IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT**

APVMA Approval No.: 67520/56262

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**DIRECTIONS FOR USE**

Crop	Disease	State	Rate		WHP	Critical Comments
			Per hectare	High Volume		
<b>Apricots</b>	Prune rust ( <i>Tranzschelia discolor</i> )	SA only	-	<b>Dilute Spraying</b> 32mL/100L <b>Conc. Spraying</b> Refer to the Mixing/ Application section	1 day	<b>Apply by dilute or concentrate spraying equipment.</b> Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. <b>Curative Control:</b> Apply when the disease first occurs. Further applications should be made when the disease occurs on new growth. DO NOT make more than 5 applications to any individual tree during the season. <b>Protective Treatment:</b> Spray mancozeb or zineb with Agro-Essence Propiconazole 250 at the full-recommended rates of application. <b>This use is subject to a DMI anti-resistance strategy.</b>
<b>Bananas</b> (including bananas inter-planted with avocados)	Leaf Spot ( <i>Mycosphaerella musicola</i> ) Leaf Speckle ( <i>Mycosphaerella musae</i> ) Cordana Leaf Spot ( <i>Cordana johnstonii</i> )	NSW, WA, Sth Qld only	<b>Ground Application:</b> 200 to 400mL + 3 to 5 L of water miscible oil, in a convenient volume of water	-	1 day	<b>This use is subject to a DMI anti-resistance strategy.</b> <b>Ground Application:</b> Apply by misting machine or airblast sprayer. Use rates towards the higher end of the range where weather conditions favour diseases or where equipment or terrain does not permit thorough spray coverage of all foliage. <b>NSW, Sth Qld: Ground and aerial application:</b> Commence spraying at the start of the summer rainy season and apply a maximum of 5 sprays per season at 21 to 28 day intervals. For effective control Agro-Essence Propiconazole must be applied at least 2 consecutive sprays at 21 to 28 day intervals before further treatments of an alternative recommended protectant fungicide are applied.
	Leaf Spot ( <i>Mycosphaerella musicola</i> ) Leaf Speckle ( <i>Mycosphaerella musae</i> ) Cordana Leaf Spot ( <i>Cordana johnstonii</i> )	Nth Qld, WA, NT only	<b>Aerial Application:</b> 400mL + 3 to 5 L of water miscible oil, in a minimum	-		

Crop	Disease	State	Rate		WHP	Critical Comments
			Per hectare	High Volume		
Continued	Black sigatoka ( <i>Mycosphaerella fijiensis</i> var <i>difformis</i> )	Qld, WA, NT only	m of 30L of water <b>Aerial Application without water:</b> 400mL + 8 to 10 L of spraying oil (This does not require further dilution with water)			start of the wet season and apply a maximum of 6 sprays per season at 14 to 21 day intervals. For effective control the product must be applied for at least 2 consecutive sprays at 14 to 21 day intervals before further treatments of an alternative recommended fungicide are applied. Continue with treatments of an alternative recommended protectant fungicide for the remainder of the season.  Use the lower rate of oil in Nth Qld. DO NOT apply during July, August, September and October.
Barley	Powdery mildew ( <i>Blumeria graminis</i> )	All states	150 to 500mL	-	Harvest 4 weeks Grazing 7 days	Spray at the first signs of disease during tillering stage. A repeat spray 21 to 28 days later may be required. Ensure thorough coverage of stems and leaves.  <b>Powdery Mildew:</b> Higher rates provide longer protection.
	Barley Scald ( <i>Rhynchosporium secalis</i> )		500mL			
	Spot Form Net Blotch ( <i>Pyrenophora teres</i> f. <i>maculata</i> )					Apply after flag leaf is around 70% emerged and before infection averages 10% on the flag-2 leaf. Ensure thorough coverage of stems and leaves.
Boronia	Rust ( <i>Puccinia boroniae</i> )	Tas, WA only	500mL to 1L	-	-	Apply 2 to 5 applications at 10 to 14 day intervals during the main disease period. Use the lower rate when application is made protectively before disease occurs. Use the higher rate when the disease is first observed and when the minimum number of applications is applied.
Oats	Stem Rust ( <i>Puccinia graminis</i> f. <i>sp avenae</i> )	All states	500mL	-	Harvest 4 weeks Grazing	Apply at first sign of disease and before there is an average of over 2 pustules per tiller. Ensure thorough coverage of stems and leaves.

Crop	Disease	State	Rate		WHP	Critical Comments
			Per hectare	High Volume		
	Crown Rust ( <i>Puccinia coronata f. sp avenae</i> )		250 to 500mL		9 7 days	Apply after flag blade leaf is fully emerged or Z39 and before disease levels reach 1% of flag area. Consider control if disease is greater than 5 to 10% on any lower leaf layer. Use higher rates under high infection pressure or when longer residual protection is required. Lower rates are effective under low disease pressure but have reduced residual effect. Ensure thorough coverage.
	Suppression of Septoria Leaf Blotch ( <i>Leptosphaeria avenaria</i> )					Apply after flag blade leaf is fully emerged or Z39 if infection averages 10% on the flag-2 leaf. The higher rate of application gives a longer period of protection than the lower rates. Use higher rates on high potential crops when conditions favour severe disease development during flowering. Lower rates are effective under low disease pressure but have reduced residual effect. Ensure thorough coverage.
Peanuts	Early Leaf Spot ( <i>Cercospora arachidicola</i> ), Late Leaf Spot ( <i>Cercospora personatum</i> )	Sth Qld, NSW, WA only	400 to 600mL	-	14 days	<b>This use is subject to a DMI anti-resistance strategy.</b> Spray when disease symptoms are first observed. Apply at 14 day intervals while weather conditions favour disease. Use rates towards the higher end of the range when wet conditions prevail.  Use a fungicide from a different activity group (non-DMI) after 3 consecutive sprays using Agro-Essence Propiconazole alone. Apply a maximum of 5 sprays per season. The leaves of peanuts sprayed may become darker green in colour and modified in shape. These effects will not adversely affect yield at recommended rates.
	Rust ( <i>Puccinia arachidis</i> )	Sth Qld, WA only	600mL			
<b>Peppermint Spearmint</b>  Grown for oil production only	Mint Rust ( <i>Puccinia menthae</i> )	NSW, Vic, Tas only	500mL	-	5 weeks	Apply 2 to 5 applications at 10 to 14 day intervals during the main disease period.  <i>Do not use on mint grown for the fresh market.</i>

Crop	Disease	State	Rate		WHP	Critical Comments
			Per hectare	High Volume		
<b>Perennial Ryegrass</b>	Stem Rust ( <i>Puccinia graminis</i> ), Blind Seed Disease ( <i>Gloeotinia granigena</i> )	Vic only			4 weeks	Apply at ear emergence and again at anthesis.
<b>Plums</b> For prune production	Prune Rust ( <i>Tranzschelia discolor</i> )	NSW, Vic, SA, WA only	-	<b>Dilute Spraying:</b> 32mL/100L <b>Conc. Spraying</b> Refer to the Mixing/ Application section	1 day	<b>Apply by dilute or concentrate spraying equipment.</b> Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. <b>Curative control:</b> Apply when the disease first occurs. Further applications should be made when the disease occurs on new growth. DO NOT make more than 5 applications to any individual tree during the season. <b>Protective treatment:</b> Spray mancozeb or zineb with Agro-Essence Propiconazole 250 at the full-recommended rates of application. <b>This use is subject to a DMI anti-resistance strategy.</b>
<b>Pineapples</b>	Base Rot ( <i>Thielaviopsis paradoxa</i> )	Qld, NT, WA only	-	10 to 20mL/100L	-	<b>Pre-plant Dip:</b> Ensure thorough coverage by totally immersing the planting material in the dip solution. Allow 50mL of the dip solution per plant. Apply the higher rate under conditions of high disease pressure.
<b>Poppies</b> ( <i>Papaver somniferum</i> )	Leaf Smut ( <i>Entyloma fuscum</i> )	Tas only	500mL	-	4 weeks	Usage recommended by poppy contract-companies. Apply as mid season application in the full flower/petal drop period when disease is present.
<b>Stone Fruit</b>	Brown Rot (Blossom Blight) (Blossom phase) ( <i>Monilinia laxa</i> )	Vic, Tas, WA only	-	<b>Dilute Spraying</b> 25mL/100L <b>Conc.</b>	1 day	Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. <b>This use is subject to a DMI anti-resistance strategy.</b>

Crop	Disease	State	Rate		WHP	Critical Comments
			Per hectare	High Volume		
	Brown Rot (blossom phase) ( <i>Monilinia fruticola</i> )	Qld, NSW, Tas, SA, WA only		<b>Spraying</b> Refer to the Mixing/ Application section		Apply at early (1 to 10%) blossom and again at full bloom. A further application is made at shuck-fall.
	Brown Rot (fruit phase) ( <i>Monilinia fruticola</i> )	Qld, NSW, Vic, Tas, SA, WA only				<p><b>Apply by dilute or concentrate spraying equipment.</b> Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</p> <p>Apply 3 weeks and 1 week before harvest.</p> <p>Only 2 consecutive applications of DMI fungicides can be made during this period. The last Blossom Blight spray and the first Brown Rot (fruit phase) spray should be regarded as consecutive applications.</p> <p>For varieties with extended harvesting periods, a third spray during the picking period may be applied if conditions are favourable for disease development.</p>
<b>Sugar Cane</b>	Pineapple disease ( <i>Ceratocystis paradoxa</i> )	Qld, NSW, WA only	-	20mL/100L	-	Ensure thorough coverage of the cut ends of the sugar cane setts.
<b>Wheat</b>	Stripe Rust ( <i>Puccinia striiformis</i> )	Qld, NSW, Vic, SA WA only	250 or 500mL	-	4 weeks	Spray between jointing and end of flowering when 10 to 20% of leaves are infected. A repeat spray 21 to 28 days later may be required. Use higher rate under high infection pressure or where longer residual protection is required.
		Tas only				Spray when 10 to 20% of leaves are infected. A repeat spray 21 to 28 days later may be required. Use higher rate under high infection pressure or where longer residual protection is required.
	Powdery Mildew ( <i>Blumeria graminis</i> )	All states	150 to 500mL	Spray at first sign of the disease during the tillering stage. A repeat spray 21 to 28 days later may be required. Ensure thorough coverage of stems and leaves. Higher rates provide longer protection.		
	Stem Rust ( <i>Puccinia</i> )		500mL	Spray at first sign of the disease and before there are more than 2 pustules per		

Crop	Disease	State	Rate		WHP	Critical Comments
			Per hectare	High Volume		
	<i>graminis</i> )					tiller. Ensure thorough coverage of stems and leaves.
	Septoria Nodorum Blotch ( <i>Phaeosphaeria nodorum</i> )		150 to 500mL			Apply after flag leaves are around 70% emerged if infection averages 10% on the flag-2 leaf. The high rate of application gives a longer period of protection than the lower rates. Use higher rates on high potential crops when conditions favour severe disease development during flowering. Lower rates are effective under low disease pressure but have reduced residual control. Ensure thorough coverage.
	Wheat Leaf Rust ( <i>Puccinia triticina</i> )					Apply after flag leaf is 70% emerged and before disease levels reach 1% of flag leaf area. Consider control if disease is greater than 5 to 10% on any lower leaf layer. Use higher rates under high infection pressure or where longer residual protection is required. Lower rates are effective under low disease pressure but have reduced residual control. Ensure thorough coverage.
	Yellow Spot ( <i>Pyrenophora tritici-repentis</i> )		250 to 500mL			Apply after flag leaves around 70% emerged if infection averages 10% on flag-2 leaf. Higher rates provide longer protection. Use higher rates on high potential crops when conditions favour severe disease development. Lower rates are effective under low disease pressure but have reduced residual effect. Ensure thorough coverage.
	Septoria Tritici Blotch ( <i>Mycosphaerella graminicola</i> )					

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

**WITHHOLDING PERIODS:**

**Perennial Ryegrass:**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION**

**Peppermint, Spearmint:**

**DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION**

**Poppies:**

**DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION**

**Barley, Oats, Wheat:**

**DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7**

**Peanuts:**

**Apricots, Bananas, Stone Fruit:**

**Pineapples, Sugar Cane:**

### **DAYS AFTER APPLICATION**

**DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION**

**DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

**WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED**

## **GENERAL INSTRUCTIONS**

**DO NOT** apply more than 6 consecutive sprays per season.

NOTE: For cereals the flag 2 leaf is the 3rd last fully emerged leaf i.e. the second leaf below flag. Wheat Stripe Rust susceptible varieties apply when 10% leaves infected. Wheat Stripe Rust moderately susceptible varieties apply when 15 to 20% leaves infected.

## **FUNGICIDE RESISTANCE WARNING**

<b>GROUP</b>	<b>3</b>	<b>FUNGICIDE</b>
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Agro-Essence Propiconazole 250 EC Fungicide is a member of the DMI group of fungicides. For fungicide resistance management the product is a Group 3 fungicide.

Some naturally occurring individual fungi resistant to Agro-Essence Propiconazole 250 EC Fungicide and other Group 3 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 Agro-Essence Propiconazole 250 EC Fungicide or other Group 3 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, Agro-Alliance (Australia) Pty Ltd accepts no liability for any losses that may result from the failure of Agro-Essence Propiconazole 250 EC Fungicide to control resistant fungi.

## **MIXING**

Shake well before use. Fill the spray tank and then add concentrate. Mix well.

## **PINEAPPLES – Preplant dip**

Add the required amount of Agro-Essence Propiconazole 250 EC Fungicide to the dip and mix well. Avoid excessive contamination of the dip with organic matter.

## **APPLICATION**

Agro-Essence Propiconazole 250 EC Fungicide may be applied by ground rig, high or low volume, or by air.

**Cereals:** May be applied by boom spray or aircraft. Ensure complete coverage of all leaves and stems is obtained. The object of spraying is to control disease on the upper 2 to 3 leaves during grain filling.

With aircraft, as a guide, apply 10 to 20 L/ha with the lower rate being used when applications are made with a cross wind of not less than 5 knots. Use the higher rates when applying to



dense crops.

**Apricots, plums and other stone fruit:** Apply by high volume (dilute) sprayer or by concentrate sprayer.

**Bananas:** Apply by misting machine, air blast sprayer or aircraft. Use a minimum of 30L water if applying by air.

### **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 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 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 volume.
- Determine the 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 can then be calculated in the following way:

### **Example Only**

1. Dilute spray volume as determined above: For example 1,500L/ha
2. Your chosen spray volume: For example 500L/ha
3. The concentrate factor in this example is: 3X (i.e. 1,500L 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.

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

### **COMPATIBILITY**

Agro-Essence Propiconazole 250 may be mixed with any of one of the registered products containing; azinophos-methyl, chlorothalonil, diazinon, methomyl liquid, metalaxyl, propargite,

parathion, dimethoate, copper oxychloride, mancozeb and zineb.  
Mixtures with more than one of the above are not recommended.

## **PRECAUTION**

### **Re-entry Period**

DO NOT enter treated area until spray has dried.

## **PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT**

DO NOT contaminate streams, rivers or waterways with chemical or used containers.

## **PROTECTION OF LIVESTOCK**

Low hazard to bees. No special pre-cautions are required.

## **STORAGE AND DISPOSAL**

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

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the empty packaging below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## **SAFETY DIRECTIONS**

Harmful if swallowed. Will damage the eyes. Will irritate the nose, throat and skin. Avoid contact with eyes and skin. Do not inhale vapour. If the product gets in eyes wash them out immediately with water. If the product gets on skin immediately wash the area with soap and water. Wash hands after use. When opening the container and preparing the product for use wear cotton overalls, buttoned to the neck and wrist, a washable hat, elbow-length PVC, nitrile or neoprene gloves, goggles and disposable fume mask. When using the prepared spray wear cotton overalls, buttoned to the neck and wrist, a washable hat, elbow-length PVC, nitrile or neoprene gloves and goggles. After each day's use, wash gloves, goggles and contaminated clothing.

## **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26. If swallowed, do not induce vomiting. Give a glass of water.

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet, which is available from the supplier.

**CONDITIONS OF SALE**

The use of Agro-Essence Propiconazole 250 Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Agro-Alliance (Australia) Pty Ltd regarding its suitability, fitness or efficacy for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Agro-Alliance (Australia) Pty Ltd accepts no responsibility for any consequences whatsoever resulting from the use of this product.