

POISON

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

Tyrant

Fungicide

**ACTIVE CONSTITUENT: 250g/L PROPICONAZOLE
SOLVENT: 654g/L HYDROCARBON LIQUID**

GROUP C FUNGICIDE

For the control of certain fungal diseases of bananas, peanuts, pineapples, stone fruit, sugarcane, wheat and other crops as per the Directions for Use.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE.

Contents: 5 Litres
10 Litres
20 Litres
50 Litres
90 Litres
200 Litres
1000 Litres

Crop Care Australasia Pty Ltd,
Unit 15/16 Metroplex Avenue, Murrarie, Qld 4172
Tel: (07) 3909 2000

STORAGE AND DISPOSAL:

(5, 10, 20 and 200 L only)

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank mix. 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 the containers in a local authority landfill. If no landfill is available bury the containers 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.

(50, 90, 1000 L only):

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage.

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 product in eyes wash it out immediately with water. If product on skin immediately wash area with soap and water. Wash hands after use. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC, nitrile or neoprene gloves, goggles and disposable fume face mask covering mouth and nose. 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. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which can be obtained from the supplier.

CONDITIONS OF SALE

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.



Crop Care Australasia Pty Ltd
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Murrarie Qld 4172
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(item print code to be inserted here)

- APVMA Approval No.: 55218/5L/0905
- APVMA Approval No.: 55218/10L/0905
- APVMA Approval No.: 55218/20L/0905
- APVMA Approval No.: 55218/50L/0905
- APVMA Approval No.: 55218/90L/0905
- APVMA Approval No.: 55218/200L/0905
- APVMA Approval No.: 55218/1000L/0905

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Barcodes to be inserted here

In a Transport Emergency Dial 000 Police or Fire Brigade	SPECIALIST ADVICE IN AN EMERGENCY ONLY 1800 033 498 ALL HOURS - AUSTRALIA WIDE
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DIRECTIONS FOR USE:**RESTRAINT: DO NOT apply more than 6 sprays per season.****1. FRUIT**

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Apricots	Prune Rust (<i>Tranzschelia discolor</i>)	SA only	-	Dilute spraying 32 mL/100 L Concentrate spraying Refer to the Mixing/ Application section	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. Curative Control: 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. Protective Treatment: Spray mancozeb or zineb mixed with Tyrant at the full recommended rates of application. This use is subject to a DMI anti-resistance strategy.
Bananaas (including bananas interplanted 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	Ground Application: 200 - 400mL + 3 to 5L of a water miscible oil, in a convenient volume of water. Aerial Application: 400mL + 3 to 5 L of a water miscible oil, in a minimum of 30 litres of water Aerial Application without water: 400mL + 8 to 10 Litres of spraying oil (This use does not require further dilution with water)	-		This use is subject to a DMI anti-resistance strategy. Ground Application: 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. NSW, Sth Qld: Ground and aerial application: 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 the product must be applied for at least 2 consecutive sprays at 21 to 28 day intervals before further treatments of an alternative recommended protective fungicide are applied. NT, WA, Nth Qld: Ground and aerial applications: Commence spraying at the start of the wet season and apply a maximum of 6 sprays per (CONT'D OVER)

1. FRUIT (cont')

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Bananas (including bananas interplanted into avocados) (cont')	Leaf spot (<i>Mycosphaerella musicola</i>), Leaf Speckle (<i>Mycosphaerella musae</i>), Cordana Leaf Spot (<i>Cordana musae</i>)	NT, Nth Qld, WA only	Ground Application: 400 mL + 3 to 5 L of water miscible oil, in a convenient volume of water.	-	1 day	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 protective fungicide for the remainder of the season. Use the lower rate of oil in Nth Qld. DO NOT apply July, August, September and October.
	Black Sigatoka (<i>Mycosphaerella fijiensis var difformis</i>)	Qld, WA and NT only	Aerial Application: 400 mL + 3 to 5 L of a water miscible oil, in a minimum of 30 litres of water. Aerial Application without water: 400 mL + 8 to 10 L spraying oil (this use does not require further dilution with water.			
Pineapples	Base Rot (<i>Thielaviopsis paradoxa</i>)	Qld, WA NT only	-	10 - 20mL	-	Pre-plant dip: 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.
Plums for Prune Production	Prune Rust (<i>Tranzschelia discolor</i>)	NSW, WA, SA, Vic only	-	Dilute Spraying 32mL/100L water Concentrate Spraying Refer to the Mixing/ Application Section	1 day	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. Curative Control: Apply when the disease first occurs. Further application should be made when the disease occurs on new growth. DO NOT make more than five applications to any individual tree during the season. Protective Treatment: Spray mancozeb or zineb mixed with Tyrant at the full recommended rates of application. This use is subject to a DMI anti-resistance strategy.

1. FRUIT (cont')

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Stone Fruit	Brown Rot (Blossom Blight) (blossom phase) (<i>Monolinia laxa</i>)	Vic, Tas, WA only	-	Dilute Spraying 25mL/100L water Concentrate Spraying Refer to the Mixing/ Application Section	1 day	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. This use is subject to a DMI anti-resistance strategy. Apply at early (1 to 10%) blossom and again at full bloom. A further application is made at shuck-fall. 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. Apply 3 weeks and 1 week before harvest. 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. For varieties with extended harvesting periods, a third spray during the picking period may be applied if conditions are favourable for disease development.
	Brown Rot (blossom phase) (<i>Monolinia fruticola</i>)	NSW, WA, SA, Qld, Tas only				
	Brown Rot (fruit phase) (<i>Monolinia fruticola</i>)	Qld, WA, NSW, Tas, Vic, SA only	-			

2. FIELD CROPS

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Cereal: Barley	Powdery Mildew (<i>Blumeria graminis hordei</i>)	All States	150 - 500mL	-	Harvest 4 Weeks Grazing 7 days	Spray at the 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. Powdery mildew - Higher rates provide longer protection.
	Barley Scald (<i>Rhynchosporium secalis</i>)		500mL			
	Spot Form Net Blotch (<i>Pyrenophora teres f. maculata</i>)					
Cereal : Oats	Stem rust (<i>Puccinia graminis f.sp.avenae</i>)		500mL	-		Apply at the first sign of disease and before there is an average of over 2 pustules per tiller. Ensure thorough coverage of stems and leaves.

2. FIELD CROPS (cont')

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Cereal : Oats (cont')	Crown rust (<i>Puccinia coronata</i> f.sp. <i>avenae</i>)	All States	250-500mL	-	Harvest 4 weeks Grazing 7 days	Apply after flag blade leaf is fully emerged or Z39 and before disease levels reach 1% of flag leaf area. Consider control if disease is greater than 5-10% 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 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 effect. Ensure thorough coverage.
Cereal: Wheat	Stripe Rust (<i>Puccinia striiformis</i>)		250 or 500mL	-		Spray between jointing and end of flowering when 10 to 20% of leaves are infected. A repeat spray 21 - 28 days later may be required. Use higher rate under high infection pressure or when longer residual protection is required.
	Powdery Mildew (<i>Blumeria graminis tritici</i>)		150 - 500 mL			Spray at the first sign of 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 graminis</i>)		500 mL			Apply at the first sign of disease and before there is an average of over 2 pustules per tiller. Ensure thorough coverage of stems and leaves.

2. FIELD CROPS (cont')

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Wheat (cont.)	Septoria nodorum blotch (<i>Phaeosphaeria nodorum</i>)	All States	150 - 500mL	-	Harvest 4 weeks Grazing 7 days	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 effect. Ensure thorough coverage.
	Wheat leaf rust (<i>Puccinia recondita</i> f.sp. <i>tritici</i> ; <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 - 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.
	Yellow Spot (<i>Pyrenophora tritici-repentis</i>) Septoria Tritici Blotch (<i>Mycosphaerella graminicola</i>)		250 - 500mL	Apply after flag leaves are around 70% emerged if infection averages 10% on the 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.		
Peanuts	Early Leaf Spot (<i>Cercospora arachidicola</i>), Late Leaf Spot (<i>Cercosporidium personatum</i>)	NSW, WA, Sth Qld only	400 - 600mL	-	2 Weeks	This use is subject to a DMI anti-resistance strategy. 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 Tyrant 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	600 mL			

2. FIELD CROPS (cont')

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Perennial Ryegrass	Stem rust (<i>Puccinia graminis</i>) Blind seed disease (<i>Gloeotinia granigena</i>)	Vic only	500 mL	-	4 weeks	Apply at ear emergence and again at anthesis.
Sugarcane	Pineapple disease (<i>Ceratocystis paradoxa</i>)	NSW, WA, Qld only	-	20mL	-	Ensure thorough coverage of the cut ends of sugarcane sets.

3. MISCELLANEOUS

Crop	Disease Controlled	State	Rate		WHP	Critical Comments
			Per Hectare	High Volume/100L		
Boronia	Rust (<i>Puccinia boroniae</i>)	WA, Tas only	500mL - 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 disease is first observed and when the minimum number of applications is applied.
Peppermint, spearmint grown for oil production only	Mint rust (<i>Puccinia menthae</i>)	Tas, Vic, NSW only	500 mL	-	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>
Poppies (<i>Papaver somniferum</i>)	Leaf Smut (<i>Entyloma fuscum</i>)	Tas only		-	4 Weeks	Usage recommended by poppy contract-companies. Apply as a mid season application in the full flower/petal drop period when disease is present.

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

WITHHOLDING PERIOD:**BANANAS, STONE FRUIT:****PEANUTS:****BARLEY, POPPIES, WHEAT, OATS:****WHEAT, BARLEY, OATS:****PERENNIAL RYEGRASS:****PEPPERMINT, SPEARMINT:****PINEAPPLE, SUGAR CANE:****DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.****DO NOT HARVEST FOR 2 WEEKS AFTER APPLICATION.****DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.****DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.****DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.****DO NOT HARVEST FOR 35 DAYS AFTER APPLICATION.****NOT REQUIRED WHEN USED AS DIRECTED.**

GENERAL INSTRUCTIONS:

DO NOT apply more than 6 sprays per season.

NOTE: For cereals, the flag - 2 leaf is the 3rd last fully emerged leaf ie. 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:

Tyrant Fungicide is a member of the DMI group of fungicides. For fungicide resistance management the product is a Group C Fungicide. Some naturally occurring individual fungi resistant to the product and other Group C 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 this product or other Group C 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, Crop Care Australasia Pty Ltd accepts no liability for any losses that may result from the failure of this product 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 Tyrant directly to the dip and mix well. Avoid excessive contamination of the dip with organic matter.

APPLICATION:

Tyrant 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 objective of spraying is to control disease on the upper 2 - 3 leaves during grain filling. With aircraft, as a guide, apply 10 - 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 rate when applying to dense crops.

Bananas:

Apply by misting machine, air blast sprayer or aircraft. Use a minimum of 30 L 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 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 100 L 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 1500 L/ha.
2. Your chosen concentrate spray volume:
For example 500L/ha.
3. The concentration factor in this example is: 3 x
(ie. $1500L \div 500L = 3$).
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:

Tyrant may be mixed with any one of the registered products containing azinphos-methyl, chlorothalonil, copper oxychloride, demeton-s-methyl, diazinon, dimethoate, mancozeb, metalaxyl, methomyl, parathion, propargite and zineb.

PROTECTION OF CROP, NATIVE AND OTHER NON-TARGET PLANTS:

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands and pastures.

PROTECTION OF LIVESTOCK:

Low hazard to bees. No special precautions are required.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT:

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

STORAGE AND DISPOSAL:

Store in the closed, original container in a cool, well-ventilated area. The method of disposal of the container depends on the container type. Read the Storage and Disposal instructions on the label that is attached to the container.

RE-ENTRY PERIOD:

DO NOT enter treated area until spray has dried.

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 product in eyes wash it out immediately with water. If product on skin immediately wash area with soap and water. Wash hands after use. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC, nitrile or neoprene gloves, goggles and disposable fume face mask covering mouth and nose. 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.

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