

NZSTI – Fungicide Guide

Active ingredient	Trade name(s)	Approved Handler required	Tracking required	Resistance risk	Rate /ha	Diseases controlled										Comments
						Anthraco-nose	Brown patch	Dollar spot	Fairy ring	Fusarium	Leaf spot (melting out)	Pythium	Red thread	Take-all patch	Winter Brown patch	
Azoxystrobin 250gai/L	Amistar® SC	No	No	Yes	1.2 -2.4L	O	O		O	O	O	O		O		To reduce the risk of resistance, apply a maximum of 2 applications/year. Dollar spot is not controlled and can be encouraged when Amistar is applied on its own in periods when Dollar spot is active
Azoxystrobin 500gai/kg	Amistar® WG	Yes	No	Yes	0.6-1.2kg	O	O		O	O	O	O		O		
Captan 480gai/L	Captan Flo	Yes	No	No	10L		NZ				NZ	NZ				
Captan 800gai/kg	Captan 80W Crop Care Captan WG Merpan™	Yes	No	No	6kg		NZ				NZ	NZ				
Captan 900gai/kg	Crop Care Captan 900 WG	Yes	No	No	5.3kg		NZ				NZ	NZ				
Carbendazim 500gai/kg	MBC 50	Yes	No	Yes	3-6kg		O	O					O			
Carbendazim 500gai/L	Addstem AGPRO Carbendazim Chief® Goldazim®500SC MBC 500 Flo Prolific® Protek® X-Spore Zelam™ Carbendazim				3-6L		O	O					O			Unless mixed with a contact fungicide, some research has shown that the Benzimidazole group of fungicides may make leaf spotting diseases and in particular <i>Curvularia</i> , worst.
Carbendazim 800gai/kg	MBC 800	Yes	No	Yes	1.9-3.75L		O	O					O			
Chlorothalonil 500gai/L	Balear® 500SC Barrier Blizzard™ Harrier	Yes	Yes	No	10-30L	O	O	O		O	O		O			

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Chlorothalonil 500gai/L	Chlorotek®	Yes	Yes	No	10-20L 15-30L		NZ	NZ			NZ					Apply in 750-1000L of water/ha. Where disease pressures are high repeat at 10-14 day intervals
Chlorothalonil 720gai/L	Barrack® 720 Barrachlor 720™ Bravo® Weatherstik Cavalry®	Yes	Yes	No	7-14L 10.5-21L		NZ	NZ			NZ					
Chlorothalonil 750gai/L	Elect™ 750SC	Yes	Yes	No	6.7-13.5L 10-20L		O	O			O					
Chlorothalonil 250gai/L And Carbendazim 250gai/L	Chlorocarb™	Yes	Yes	Yes	10-15L	NZ	NZ	NZ		NZ	NZ		NZ			Apply in 1000L of water/ha. Follow up at 14 day intervals. To avoid burning turf avoid applying this in the heat of the day.
Chlorothalonil 250gai/L And Thiophanate methyl 250gai/L	Taratek 5F	Yes	Yes	Yes	10-15L	NZ	NZ	NZ		NZ	NZ		NZ			To avoid burning turf avoid applying this in the heat of the day. Delay mowing for 24 hours after application
Cyproconazole 100gai/L	Alto® 100SL	Yes	No	Yes	3-4L 2L		NZ						NZ			Apply <u>preventatively</u> in 1000-2000L of water/ha. Do not apply more than 3L/ha on <i>Poa annua</i> or creeping bentgrass as phytotoxicity may occur.
Fenarimol 120gai/L	Rubigan Flo	No	No	Yes	25-50L	O		O		O			O	O		Repeated use of Rubigan has been used to selectively remove <i>Poa annua</i> . Has a growth regulatory affect on <i>Poa annua</i> . Apply in 1000L of water/ha. Needs to be washed in when preventing Take All patch.

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Fosetyl-aluminium 800gai/kg	Alliette WG® Fostonic 80 WP®	No	No	Yes	12kg							O				Do not mow or irrigate sprayed turf until product is fully dry on the leaf.
Iprodione 250gai/L	Rovral® Flo	Yes	No	Yes	10-20L		NZ	NZ		NZ	NZ		NZ			Apply in 500L of water/ha
Iprodione 500gai/L	Defence™ 500 Fortify Hawk Ippon® 500 SC Rapid™ 500	Yes	No	Yes	5-10L		NZ	NZ		NZ	NZ		NZ			
Iprodione 750gai/kg	Rovral® Gold	Yes	No	Yes	3.3-6.7kg		NZ	NZ		NZ	NZ		NZ			
Mancozeb 480gai/L	Kotek™ ManexII™	Yes	No	No	20-40L	NZ	NZ	NZ		NZ	NZ	O	NZ			Apply in 1000L of water/ha. Follow up at 7 day intervals when disease pressures are high
Mancozeb 750gai/KG	Dithane Rainshield Neotec Manco 75 WG Manzate® 200DF Manzate Evolution Penncozeb® DF	Yes	No	No	12.8-25.6kg	O	O	O		O	O	O	O			
Mancozeb 800gai/kg	Mancozeb Dithane DF Rainshield	Yes	No	No	12-24kg	O	O	O		O	O	O	O			
Metalaxyl-M 40gai/kg And Mancozeb 640gai/kg	Ridomil Gold MZ WG	Yes	No	Yes	3-6kg							O				
Metalaxyl 40gai/kg And Mancozeb 320gai/L	Max MZ	Yes	No	yes	6-12L							O				
Metalaxyl 50gai/kg And Chlorothalonil 375gai/L	Max CL	Yes	No	Yes	4.8-9.6L							O				

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						Anthrachnose	Brown patch	Dollar spot	Fairy ring	Fusarium	Leaf spot (melting out)	Pythium	Red thread	Take-all patch	Winter Brown patch	
Myclobutanil 125gai/L	Prostar	Yes	No	Yes	5.75L 11.5L	O		O		O		O				Provides preventative and curative control. Optimum results are achieved when this is used as a preventative programme.
Myclobutanil 125gai/L	Systhane 125	No	No	Yes	5.75L 11.5L	O		O		O		O				Provides preventative and curative control. Optimum results are achieved when this is used as a preventative programme.
Myclobutanil 400gai/kg	Systhane 400 WP	No	No	Yes	1.8kg 3.6kg	O		O		O		O				
Pyraclostrobin 250gai/L	Comet®	Yes	No	Yes	1.2-2.1 2.1	O		O	O	O		O				Best used preventatively or for mild disease outbreaks. Apply in 870-1600L of water/ha. Provides <u>suppression only</u> of Dollar spot. Use a maximum of 2 consecutive applications of Comet when controlling Anthracnose or Dollar spot. Treat fairy ring when symptoms are first observed. A follow up application maybe required 28days later.
Phosphorous Acid 400gai/L	Foli-R-Fos 400 Foschek Fosfonate Hi PK Phosgard Phyta	No	No	No	8-10L							O				
Potassium bicarbonate 950gai/kg	Ecocarb®	No	No	No	10kg			NZ								Apply in 1000L of water/ha. Include a spraying oil such as Synertol Horti @ 500mls/100L of water.
Prochloraz 450gai/L	Mirage 450 Sportak Zelam Prochloraz	Yes	No	Yes	3-6.5L	O	O	O		O	O			O		

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Prochloraz 462gai/kg	Octave	Yes	No	Yes		O	O	O		O	O			O			
Procymidone 500gai/L	Sumisclex 500	No	No	Yes	1.5-2.5L			O			O						
Propiconazole 250gai/L	Aurora Procure	Yes	Yes	Yes	2-4L 3L 3-4L 2-7.5L ¹ 5-7.5L	NZ		NZ			NZ				NZ		Apply in a minimum of 1000L water/ha. Preventative control of Brown patch Tank mix with Barrachlor 720 @ 7L/ha when controlling leaf spots Apply preventatively during autumn.
Propiconazole 250gai/L	Tilt EC	Yes	No	Yes	2L 3L			NZ							NZ		Apply in a minimum of 1000L water/ha. Provides preventative control of Brown patch Do not apply to newly mown turf. Do not mow within 24 hours of spraying. Delay spraying until the dew dries.
Propiconazole 250gai/L	Falcon Pro-P Propiphar 25EC Radius	Yes	Yes	Yes	2-5L	O	O	O		O			O	O			
Quintozene 750gai/kg	Terrachlor 75 WP	Yes	No	Yes	30kg		NZ				NZ						Apply in 5000L of water/ha. Care is required when temperatures exceed 25°C as burning of the turf may occur.
Tebuconazole 250gai/L	Axis Orius	Yes	No	Yes	2.5-5L	O	O	O		O			O	O			
Tebuconazole 430gai/L	Compass Folicur 430SC Hornet 430 SC	Yes	No	Yes	1.5-3L	O	O	O		O			O	O			

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						Anthracoze	Brown patch	Dollar spot	Fairy ring	Fusarium	Leaf spot (melting out)	Pythium	Red thread		Take-all patch	Winter Brown patch
Thiophanate-methyl 400gai/L	Topsin M-4A	Yes	No	Yes	12L	O	NZ	O		O						
Thiram 400gai/L	Thiram 40F	Yes	Yes	No	15L		NZ			O	NZ	NZ				Apply in 5000L of water.
Thiram 800 gai/kg	Thiram DF	Yes	Yes	No	7.5kg		NZ			O	NZ	NZ				Apply in 5000L of water.
Triadimefon 62.5gai/kg	Miltek	No	No	Yes	10.5-21L	O		O		O			O			
Triadimenol 250gai/L	Cereous™ Citadel®	No	No	Yes	3-6L	O		O		O			O	O		
Trifloxystrobin 500gai/L	Twist	Yes	No	Yes	0.3-0.45L 0.3-0.75L 0.45-0.75L 0.6-0.75L						O			O		Do not apply more than 3 sequential applications. Apply in 500-1000L of water/ha. When using the lower rate follow up applications will be required at 14 day intervals, whilst the higher rate should provide control up to 21 days.
Trifloxystrobin 500gai/kg	Flint®	Yes	No	Yes	0.3-0.45L 0.3-0.75L 0.45-0.75L 0.6-0.75L						O			O		

The basis of the products and rates recommended is as follows:

1. Where a NZ rate is registered for an active ingredient, then all the formulations have been converted on the basis of this registration.
2. Where a NZ registration does not exist for an active ingredient, then the rates are based on international turf registrations.

DISCLAIMER

The information provided in this fungicide guide by the NZ Sports Turf Institute is given in good faith. However, due to the large number of variables involved at any particular site and in the absence of any control of how the information is to be applied, any action in reliance of this guide is at the sole discretion of the user of the information and is taken at his/her own risk.

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Version 2, August 2008



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