

Seed dressing and in-furrow fungicides registered for use on barley in Western Australia – 2024-25

This information is a guide only. Chemical labels should be read, and rates should be checked before using fungicides. Mention of trade names does not imply endorsement of any company's products. Recommendations are current at the time this page was prepared. Symbols used refer to footnotes. Please turn on punctuation if using a screen reader.

Seed dressing active ingredient (fungicide/insecticide). Rate of product/100 kg/seed	Covered smut	Loose smut	Scald	Net-type net blotch (seed- borne)	Powdery mildew	Leaf rust	Products example by trade names
Carboxin	60mL	250mL	No registration	No registration	No registration	No registration	Vitaflo®
Carboxin + Cypermethrinª	70g or 125mL	125g or 250mL	No registration	No registration	No registration	No registration	Vitaflo C, Vitavax [®] 750C,
Carboxin + Thiram	250mL	500mL	No registration	250-375mL	No registration	No registration	Vitavax 200FF
Difenoconazole + Metalaxyl-M + sedaxane	90-180mL	90-180mL	No registration	180mL	No registration	No registration	Vibrance
Fluquinconazole	<u>300mL³</u>	300mL ³	300mL ³	No registration	300mL ³	No registration	Relyon Fluquinconazole, <u>Jockey[®] Stayer</u> <u>Fluquinconazole 167 SC</u> , 4Farmers Fluqu <u>167 SC</u> ³ indicates registered for disc
Flutriafol + Cypermethrin ^a	100g <i>or</i> <u>mL</u>	100g <i>or</i> <u>mL</u>	100g <i>or</i> <u>mL</u>	No registration	100g <i>or</i> <u>mL</u>	No registration	Vincit [®] C, <u>Veteran C, Vibrant 25C</u> , <u>Arrow</u> Apparent Superstar Liquid seed dressing, Vibrant 25C
Flutriafol + Metalaxyl-M + Imidacloprid (Flutriafol with zinc)	400mL/ *(400m)	400mL/ *(400m)	No registration	No registration	No registration	No registration	*(Vincit [®] Zinc), Nufarm Pontiac
Fluxapyroxad	No registration	150mL	150mL	150mL	150mL	150mL	Systiva®
Ipconazole + Cypermethrin ^a	100mL	100mL	No registration	No registration	No registration	No registration	Rancona [®] C
Ipconazole + Metalaxyl	80mL	80-200mL	No registration	No registration	No registration	No registration	Rancona Dimension
Penflufen	40-80mL	40-80mL	No registration	No registration	No registration	No registration	EverGol [®] Prime
Penflufen + Prothioconazole+ Metalaxyl	65mL	130mL	No registration	No registration	No registration	No registration	EverGol [®] Energy
Tebuconazole + Imidacloprid	200mL	200mL	No registration	No registration	No registration	No registration	Proguard [®] Ultra, Hombre [®] Ultra
Tebuconazole+ Cypermethrin ^a or triflumuron ^a	100g <i>or</i> mL	100g <i>or</i> mL	No registration	No registration	No registration	No registration	Raxil [®] T, Proguard [®] T, Tebby-C [®] , Conque GenfarmTebu T, Titan Tebu T, Accensi Te Tebuconazole 25C, AC Fend, Genfarm Te
Triadimenol+ Imidacloprid	400mL	400mL	400mL ³	No registration	400mL	No registration	Proleaf [®] Plus, Foliarflo [®] plus, Imid-Triadim
Triadimenol + Cypermethrinª or (Triflumuron)ª	100-150g <i>or</i> mL	100-150g <i>or</i> mL	100-150g <i>or</i> mL³	No registration	100-150g <i>or</i> mL ³	No registration	Vanguard [®] 150C, Seedpik 150 C, Foliarflo Suntan, Triadimenol 150 C, AC Haven, (F

Table 1. Seed dressing fungicide active ingredient and equivalent trade names registered for use on barley foliar diseases. List may not be comprehensive – check with your retailer

Protect Grow | Innovate

ayer [®] , <u>Quantum[®] Pro,</u> <u>Apparent Hoop 167,</u> <u>Titan</u> Fluquinconazole, Genfarm Fluzole, <u>FMC Rider</u> r disease suppression only
row C, Apparent Flutriafol 25 [®] , <u>Armour[®] C,</u> sing, <u>Titan Flutriafol 25</u> , Veteran [™] C, <u>Conquest</u>
nquest Veto [®] 25C or T, Apparent Kingpin,
si Tebuconazole 25 T, Apparent Axle, Accensi m Tebu-C25, Reprise [®] ,
adimenol,
iarflo [®] C, (Foliarflo [®] T), (Proleaf [®] T), Apparent n, (Relyon Triadimenol T), (Smart Triad)

Triticonazole + cypermethrin ^a or	100mL	100mL	*(150mL) ³	No registration	*(75-150mL) ³	No registration	Premis [®] Pro C, *(Triticonazole 200C), In
Pyraclostrobin	*(75-150mL)	*(75-150mL)				_	
	<u>315mL</u>	<u>315mL</u>					

Notes

- 1. A no registration cell indicates that product is not registered for use in the disease specified
- 2. [®] Registered trademark
- 3. ³Disease suppression only
- 4. *Some active ingredients and rates are in brackets and correspond to the relevant product name in brackets in the same row
- 5. Some rates are <u>underlined</u> and correspond to the relevant product underlined in the same row
- 6. For barley, *fluquinconazole* must be used in conjunction with tebuconazole as per the registered label
- 7. Armour C and Arrow[®] C are the only flutriafol treatments registered for scald and powdery mildew in barley

Insecticides

^aCypermethrin, Imidacloprid and Triflumuron compounds (insecticides) are effective against insect pests of stored grain. These products protect plants from spread of barley yellow dwarf virus (BYDV) and cereal yellow dwarf virus (CYDV).

Fungicide resistance warning

Fungicide resistance has come about from continuous use of fungicides with same actives or from same group as seed dressings and following up with multiple foliar applications.

Barley powdery mildew: Resistance and reduced sensitivity to Group 3 fungicides (tebuconazole, propiconazole, flutriafol) has been confirmed in WA.

Barley net-form net blotch: Resistance and reduced sensitivity to Group 3 fungicides (DMI) and reduced sensitivity to Group 7 (SDHI) have been detected in WA.

Barley spot-form net blotch: Resistance and reduced sensitivity to Group 3 fungicides (DMI) and Group 7 SDHI (fluxapyroxad) have been detected in WA.

To reduce the resistance development of the pathogens, use an integrated disease management strategy, including growing a variety with a good disease resistance profile, managing regrowth barley, using crop rotation, fungicide mode of action rotation, and avoiding growing extremely dense canopy crops. Refer to the department website at dpird.wa.gov.au, and the Australian Fungicide Resistance Extension Network (AFREN) website at <u>afren.com.au</u>, for more information on barley net blotches, and powdery mildew.

Table 2 Seed dressing fungicide active ingredients and equivalent trade names registered for use on barley root diseases. List may not be comprehensive.
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Seed dressing active ingredient fungicide/insecticide). Rate of product/100 kg/seed	Pythium spp.	Rhizoctonia	Crown rot	Take all	Products example by trade names
luquinconazole	No registration	No registration	No registration	450 mL ^{3, 4}	Quantum [®] Pro ⁴ , Jockey [®] Stayer ⁴
Difenoconazole + Metalaxyl-M + sedaxane (D+M+S+Thiamethoxam)	180mL (360mL) ³	180-360mL ³	No registration	No registration	Vibrance [™] ,
oconazole + metalaxyl	200mL ³	320mL ³	320mL⁵	No registration	Rancona [®] Dimension⁵
luxapyroxad	No registration	150mL ³	No registration	No registration	Systiva [®]
Penflufen	No registration	40-80mL/ha ³	No registration	No registration	EverGol [®] Prime
Penflufen + Prothioconazole+ /letalaxyl	100 mL ³	130mL-260mL ³	260mL ³	No registration	EverGol [®] Energy
Iutriafol	No registration	No registration	No registration	200 – 400 mL	Intake Hiload Gold, Combi Sapphire
-Iutriafol + Metalaxyl-M + midacloprid	400mL	400mL ³	No registration	No registration	Tri Power [®] , Pontiac [®]

Note

- 1. No registration indicates that product is not registered for use in the disease specified
- [®] registered trademark 2.
- 3. ³disease suppression only
- 4. Fluquinconazole based products at higher rate suppress Take-all disease
- 5. Rancona[®] Dimension registered to use in suppression of crown rot (caused by *Fusarium pseudograminearum*)
- 6. EverGol[®] Prime, registered to use either as seed dressing or as split application with in-furrow treatment in suppression of *Rhizoctonia*. EverGol[®] Energy registered to use as seed dressing or as in-furrow treatment in pythium suppression.

Table 3 In-furrow fungicide active ingredients and equivalent trade names registered for use on barley foliar and soil-borne diseases. List may not be comprehensive.

Active ingredient (fungicide/insecticide) applied as a fertiliser treatment. Rate of product/ha	Scald	Net-type net blotch (seed- borne)	Spot-type net blotch	Powdery mildew	Leaf Rust	Pythium spp	. Rhizoctonia	Take-all	Product examples by Trad
Azoxystrobin (322g/L) and Metalaxyl-M (124 g/L)	No registration	300 - 400 mL ³	300 - 400 mL ³	300 or 400 mL ³	200-400 mL ³	200 – 400mL	300 or 400 mL ^{3*}	No registration	Uniform [®] *
Flutriafol (250g/L)	200-400mL	No registration	No registration	200-400mL	No registration	No registration	No registration	No registration	Impact [®] , Jubilee [®] , Sabakem Furrowfol [®] 250, Farmalinx F
Flutriafol (500g/L)	100 <i>or</i> 200mL	No registration	No registration	100 or 200mL	No registration	No registration	No registration	No registration	Impact [®] Endure, Whitestar F Jubilee [®] Loaded, Jubilee [®] 50 AC Fearsome [®] 500,
Flutriafol 500g/L	100-400mL	300-400mL ³	No registration	100-400mL	300-400mL	No registration	No registration	200mL	Intake [®] Hiload Gold, Intake [®]
Penflufen 240g/L	No registration	No registration	No registration	No registration	No registration	No registration	60-120mL/ha	No registration	EverGol [®] Prime
Penflufen + Prothioconazole+ Metalaxyl	No registration	No registration	No registration	No registration	No registration	300mL	200mL-300mL ^{3,*}	No registration	EverGol [®] Energy
Triadimefon (500g/kg)	No registration	No registration	No registration	200g ³ or 250g ³ (see label)	No registration	No registration	No registration	No registration	Triadimefon 500 WP <i>or</i> 500

Notes

1. No registration indicates that product is not registered for use in the disease specified; There are no in-furrow fungicides registered for covered smut, loose smut, leaf rust or crown rot in barley

- 2. [®] registered trademark
- 3. ³disease suppression only
- 4. Check labels of triadimeton products as only some brands/products are registered for suppression of barley powdery mildew and rates vary
- 5. *Uniform[®] is registered for Rhizoctonia bare patch and root rot at 300-400 mL/ha applied as a liquid band in-furrow or with granular fertiliser. It can be applied for Rhizoctonia bare patch suppression at 200 mL/ha in combination with a seed dressing registered for Rhizoctonia bare patch suppression. The higher rate provides control of Rhizoctonia
- 6. EverGol® Energy Can be used for Rhizoctonia root rot suppression in combinations with 200mL/ha in-furrow plus 130ml/100 kg seed or 100-150mL/ha in-furrow plus 100-150mL/ha surface banding.

de Names

m[®] Flutriafol 250 SC , Tricam[®], Kenso Pollux[®], Bayonet[®], Flufol[®], FMC Flutriafol 250,, Agrochina Flutriafol 250 SC

⁻ Flutriafol 500 SC, Conquest Bayonet Fert 500, 500, 4 Farmers Flutriafol 500 SC, Genfarm Flutriafol Max,

e[®] Combi Sapphire

0 dry or 500 WG, Triadimefon 500

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Important disclaimer

Mention of trade names does not imply endorsement or preference of any company's product by Department of Primary Industries and Regional Development (DPIRD) and any omission of a trade name is unintentional. Recommendations are current at the time this page was prepared.

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