



Australian Government
**Australian Pesticides and
Veterinary Medicines Authority**

**PERMIT TO ALLOW MINOR USE OF A REGISTERED AGVET CHEMICAL
PRODUCT FOR CONTROL OF VARIOUS DISEASES IN (NON-FOOD) NURSERY
STOCK, INCLUDING SEEDLINGS, TUBES, PLUGS, POTTED COLOUR, TREES,
SHRUBS, FOLIAGE PLANTS, PALMS, GRASSES, FRUIT PLANTS, CUT FLOWERS*
AND ORNAMENTALS**

PERMIT NUMBER – PER91756

This permit is issued to the Permit Holder in response to an application granted by the APVMA under section 112 of the Agvet Codes of the jurisdictions set out below. This permit allows a person, as stipulated below, to use the product in the manner specified in this permit in the designated jurisdictions. This permit also allows the Permit Holder and any person stipulated below to claim that the product can be used in the manner specified in this permit.

THIS PERMIT IS IN FORCE FROM 22 FEBRUARY 2022 TO 28 FEBRUARY 2026

Permit Holder:

GREENLIFE INDUSTRY AUSTRALIA LIMITED
c/- AGAWARE CONSULTING PTY LTD
21 Rosella Avenue
STRATHFIELDSAYE VIC 3551

Persons who can use the product under this permit:

Persons generally.

CONDITIONS OF USE

Products to be used:

Dimethomorph:

ACROBAT FUNGICIDE (APVMA No. 52989)

PLUS OTHER REGISTERED PRODUCTS

Containing: 500 g/kg DIMETHOMORPH as the only active constituent.

ACROBAT SC FUNGICIDE (APVMA No. 62737)

PLUS OTHER REGISTERED PRODUCTS

Containing: 500 g/L DIMETHOMORPH as the only active constituent.

Mancozeb:

IMTRADE MANCOZEB 750 DF FUNGICIDE (APVMA No. 63513)

PLUS OTHER REGISTERED PRODUCTS

Containing: 750 g/kg MANCOZEB as the only active constituent.

IMTRADE MANCOZEB 800 WP FUNGICIDE (APVMA No. 57749)

PLUS OTHER REGISTERED PRODUCTS

Containing: 800 g/kg MANCOZEB as the only active constituent.

Mancozeb + Metalaxyl or Mancozeb + Metalaxyl-M:

ZEEMIL 720 WG SYSTEMIC AND PROTECTIVE FUNGICIDE (APVMA No. 69394)

PLUS OTHER REGISTERED PRODUCTS

Containing: 640 g/kg MANCOZEB + 80 g/kg METALAXYL as the only active constituents.

RIDOMIL GOLD MZ WG SYSTEMIC & PROTECTIVE FUNGICIDE (APVMA No. 52926)

PLUS OTHER REGISTERED PRODUCTS

Containing: 640 g/kg MANCOZEB + 40 g/kg METALAXYL-M as the only active constituents.

Metiram + Pyraclostrobin

AERO FUNGICIDE (APVMA No. 59616)

PLUS OTHER REGISTERED PRODUCTS

Containing: 550 g/kg METIRAM + 50 g/kg PYRACLOSTROBIN as the only active constituents.

Directions for Use:

Persons using fungicide products must refer to the *Application Rates* and *Critical Use Comments* listed in Tables 1-4 below.

Disease	Product (MoA)	Permit Location
Leaf spots (<i>Alternaria</i> spp., <i>Colletotrichum</i> spp., <i>Cercospora</i> spp., <i>Cladosporium</i> spp., <i>Mycosphaerella</i> spp.)	Dimethomorph (40) PLUS Mancozeb (M3)	Table 1
	Mancozeb (M3)	Table 2
	Mancozeb (M3) + Metalaxyl (4)	Table 3
Alternaria (<i>Alternaria</i> spp.)	Metiram (M3) + Pyraclostrobin (11)	Table 4
Anthracnose (<i>Colletotrichum</i> spp.)	Dimethomorph (40) PLUS Mancozeb (M3)	Table 1
	Mancozeb (M3)	Table 2
	Mancozeb (M3) + Metalaxyl (4)	Table 3
	Metiram (M3) + Pyraclostrobin (11)	Table 4
Downy mildew (<i>Bremia</i> spp., <i>Peronospora</i> spp., <i>Pseudoperonospora</i> spp.)	Dimethomorph (40) PLUS Mancozeb (M3)	Table 1
	Mancozeb (M3)	Table 2
	Metiram (M3) + Pyraclostrobin (11)	Table 4
Grey mould (<i>Botrytis</i> spp.)	Mancozeb (M3)	Table 2
Phoma (<i>Phoma</i> spp.)	Mancozeb (M3)	Table 2
Powdery mildew (<i>Oidium</i> spp.)	Metiram (M3) + Pyraclostrobin (11)	Table 4
Phytophthora (<i>Phytophthora</i> spp.)	Dimethomorph (40) PLUS Mancozeb (M3)	Table 1
	Mancozeb (M3) + Metalaxyl (4)	Table 3
	Metiram (M3) + Pyraclostrobin (11)	Table 4
Rhizoctonia rot (<i>Rhizoctonia</i> spp.)	Mancozeb (M3)	Table 2
Rust (<i>Puccinia</i> spp., <i>Phragmidium</i> spp., <i>Uromyces</i> spp.)	Mancozeb (M3)	Table 2
Septoria leaf spot (<i>Septoria</i> spp.)	Mancozeb (M3)	Table 2
	Mancozeb (M3) + Metalaxyl (4)	Table 3

Withholding Period:

DO NOT use on plants grown for human or animal consumption.

Jurisdiction:

All States and Territories, except VIC.

Note: Victoria is not included in this permit, as their Control-of-Use legislation means a permit is not required to legalise this off-label use in that State.

Additional Conditions:

This permit allows for the use of a product in a manner specified on the permit. Persons who wish to prepare for use and/or use products for the purposes specified in this permit must read, or have read to them, the details and conditions of this permit. Unless otherwise stated, the use of the product must be in accordance with the product label.

To Avoid Crop Damage:

Nursery stock is not known to be sensitive to the chemical fungicide products listed in this permit when used in strict accordance with the rate, conditions of use and other warnings.

However, the large number of disparate crop lines produced in commercial nurseries means that not all these products have been fully evaluated for crop safety on all species, or in all situations where treatment may be undertaken. Some of these fungicides may demonstrate toxicity under certain situations, application methods, application rates and weather conditions to susceptible nursery stock. Some fungicides may also leave undesirable spray residue on foliage and flowers.

If unsure of the crop tolerance, users must treat a sample number of plants or a small area prior to whole crop treatment and monitor any phytotoxic effects that will compromise production goals. This action cannot guarantee crop safety as application, environmental and crop conditions may vary from test treatment to whole of crop treatment. Any instances of phytotoxic damage should be reported immediately to the permit holder.

Resistance Management

Use fungicide products in accordance with existing Fungicide Resistance Management Strategies and in accordance with best practice. Fungicide products should be used as part of an integrated disease management program, which incorporates as many control options as possible to minimise disease pressure. It is important that approved fungicide products are rotated between different chemical mode of action (MoA) groups at regular intervals within a structured disease management plan.

Fungicide Resistance Management Strategies have been developed by CropLife Australia. An updated version of these strategies is available from CropLife Australia's website at: <http://www.croplife.org.au/industry-stewardship/resistance-management> or search on-line for Resistance Management CropLife Australia.

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* Includes wildflower crops. Refer to Wildflower crops list in Appendix 1.

Table 1: Use of DIMETHOMORPH plus MANCOZEB in nursery stock (non-food) and ornamentals Including (non-food) - seedlings, tubes, plugs, potted colour, trees, shrubs, foliage plants, palms, grasses, fruit plants (non-bearing), cut flowers* and ornamentals

Disease	Product (MoA)	Rate
Leaf spot (<i>Alternaria</i> spp. and <i>Colletotrichum</i> spp.)	500 g/kg dimethomorph (40)	36 g/100 L
	PLUS	
Anthracnose	750 g/kg Mancozeb (M3)	160 g/100 L
	OR	
Downy mildew (<i>Bremia</i> spp., <i>Peronospora</i> spp., <i>Pseudoperonospora</i> spp.)	800 g/kg Mancozeb (M3)	150 g/100 L
	500 g/L dimethomorph (40)	36 mL/100 L
Phytophthora (<i>Phytophthora</i> spp.)	PLUS	
	750 g/kg Mancozeb (M3)	160 g/100 L
	OR	
	800 g/kg Mancozeb (M3)	150 g/100 L

Critical Use Comments

- Apply before disease appears when conditions favour infection.
- Apply as a foliar application with boom sprayer or hand-held boom.
- Apply by low volume application of concentrated spray by sprayer designed and set up for concentrate spraying.
- DO NOT apply more than 4 sprays per crop. Apply 2 consecutive sprays of dimethomorph + mancozeb 7 to 14 days apart then alternate to a fungicide from another chemical group. Use shorter intervals when conditions favouring infection are creating a high risk.
- For fungicide resistance management dimethomorph is a Group 40 fungicide. Limit use of this product to periods when conditions favour disease development. Maintain a regular protectant spray program.
- Mancozeb may have an impact on some IPM systems.
- This permit is for a tank-mix of registered dimethomorph products in combination with registered mancozeb products. Both products are required for effective control of the diseases listed.

Table 2: Use of MANCOZEB in nursery stock (non-food) and ornamentals Including (non-food) - seedlings, tubes, plugs, potted colour, trees, shrubs, foliage plants, palms, grasses, fruit plants (non-bearing), cut flowers* and ornamentals

Disease	Product (MoA)	Rate
Leaf spot	750 g/kg Mancozeb (M3)	150-200 g/100 L
Anthracnose	OR	
Downy Mildew	800 g/kg Mancozeb (M3)	
Grey Mould (<i>Botrytis cinerea</i>)		
Phoma (<i>Phoma</i> spp.)		
Rhizoctonia rot (<i>Rhizoctonia</i> spp.)		
Rust (<i>Puccinia</i> spp., <i>Phragmidium</i> spp., <i>Uromyces</i> spp.)		
Septoria leaf spot (<i>Septoria</i> spp.).		

Critical Use Comments

- Apply as a preventative treatment when conditions favour disease development, or at the first signs of disease infection.
- DO NOT use mancozeb as a curative fungicide.
- Thorough coverage of foliage is essential for optimum performance. Apply in sufficient water volume to cover all foliage to the point of run-off. Avoid excessive run-off.
- During wet and/or humid weather conditions favourable for disease development, use higher rate and shorter spray interval.
- Apply 2 sequential mancozeb cover sprays at 7 – 10 day interval; then alternate to a fungicide from another chemical group with a different Mode of Action.
- DO NOT apply more than 4 applications of mancozeb product per crop.
- Mancozeb products should be used as part of an integrated disease management program, which incorporates as many control options as possible to minimise disease pressure.

Table 3: Use of MANCOZEB + METALAXYL and MANCOZEB + METALAXYL-M in nursery stock (non-food) and ornamentals Including (non-food) - seedlings, tubes, plugs, potted colour, trees, shrubs, foliage plants, palms, grasses, fruit plants (non-bearing), cut flowers* and ornamentals

Disease	Product (MoA)	Rate
Leaf spot Anthracnose Phytophthora (<i>Phytophthora</i> spp.) Septoria leaf spot (<i>Septoria</i> spp.).	640 g/kg mancozeb (M3) + 80 g/kg metalaxyl (4) OR 640 g/kg mancozeb (M3) + 40 g/kg metalaxyl-M (4)	2.5 kg product in 200 - 500 L water per hectare

Critical Use Comments

- Commence spraying early (i.e. prior to the known disease infection period) with a registered fungicide product from a different activity (MoA) group.
- Apply maximum 2 consecutive applications when conditions favour disease development. Consecutive sprays should be applied 7 to 10 days apart. Continue the spray program using non-Group 4 fungicides with protective activity.
- Apply maximum 4 foliar spray applications within an annual production cycle.
- Thorough coverage of foliage is essential; apply diluent to the point of run-off.
- Use in accordance with existing Fungicide Resistance Management strategies and in accordance with best practice.

Re-entry Statement (*protected situations only*):

DO NOT enter treated areas for 2 days after application unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

Table 4: Use of METIRAM + PYRACLOSTROBIN in nursery stock (non-food) and ornamentals Including (non-food) - seedlings, tubes, plugs, potted colour, trees, shrubs, foliage plants, palms, grasses, fruit plants (non-bearing), cut flowers* and ornamentals

Disease	Product (MoA)	Rate
Alternaria (<i>Alternaria</i> spp.)	550 g/kg metiram (M3) + 50 g/kg pyraclostrobin (11)	200-300 g/100 L
Anthracnose (<i>Colletotrichum</i> spp.)		
Phytophthora (<i>Phytophthora</i> spp.)		
Powdery Mildew (<i>Oidium</i> spp.)		
Downy Mildew (<i>Peronospora</i> spp.)		

Critical Use Comments

- Use preventively. Begin application when conditions favour disease development, prior to or at the first signs of disease.
- Apply by ground-based sprayer (hydraulic, backpack or equivalent).
- Thorough coverage of foliage is essential: apply to the point of run-off.
- DO NOT apply more than 2 applications per crop.
- DO NOT apply less than 10 – 14 days after the initial treatment.
- Continue the spray program using fungicides from different activity (MoA) group
- Use in accordance with CropLife Australia Resistance Management Strategy and in accordance with best practice.
- Adhere to ALL product label restraints and mandatory no spray zone instructions.

Re-entry Period:

- DO NOT enter treated areas to conduct very low/low exposure activities such as propping, irrigation, scouting and weeding until spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each days use.
- DO NOT enter treated areas to conduct high exposure activities such as harvesting, pruning, training and tying for 2 days, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each days use.

Safety Directions:

Will irritate the skin. May irritate the eyes. Avoid contact with eyes and skin. If product on skin, immediately wash area with soap and water. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. When using the prepared spray (by low pressure handwand), wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and half face piece respirator. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Appendix 1

Wildflower crops

Banksia species (*Banksia* spp.) - cultivars and hybrids

Berzelia or button brush (*Berzelia* spp.)

Black kangaroo paw species (*Macropidia* spp.) - cultivars and hybrids

Christmas bells (*Blandfordia grandiflora*)

Christmas bush (*Ceratopetalum gummiferum*)

Geraldton wax, Waxflower species (*Chamelaucium* spp.) - cultivars and hybrids

Kangaroo paw species (*Anigozanthos* spp.) - cultivars and hybrids

Leucadendron species - cultivars and hybrids

Leucospermum species (*Leucospermum* spp.) - cultivars and hybrids (pincushions)

Protea species (*Protea* spp.) - cultivars and hybrids

Riceflower (*Ozothamnus diosmifolius*)

Waratah species (*Telopea speciosissima*) - cultivars and hybrids