

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



ACTIVE CONSTITUENT: 218 g/L IPFLUFENOQUIN

GROUP 52 FUNGICIDE

A fungicide for the control of grey mould in strawberries and wine grapes, and black spot and powdery mildew in apples as per the Directions for Use table.

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An American Vanguard Company

Contents 1 L and 5 L

DIRECTIONS FOR USE**RESTRAINTS**

DO NOT apply by aircraft.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the buffer zone table below provides guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zone' section of the following table titled 'Buffer zones for boom sprayers') are observed.

BUFFER ZONES FOR BOOM SPRAYERS

| Application rate | Boom height above the target canopy | Mandatory downwind buffer zones | | | | |
|------------------------------|-------------------------------------|---------------------------------|-----------------------|------------------|------------------|-----------------|
| | | Bystander areas | Natural aquatic areas | Pollinator areas | Vegetation areas | Livestock areas |
| Up to the maximum label rate | 0.5 m or lower | 0 metres | 0 metres | 0 metres | 0 metres | 0 metres |
| | 1.0 m or lower | 0 metres | 0 metres | 0 metres | 0 metres | 15 metres |

DO NOT apply by a vertical sprayer unless the following requirements are met:

- Spray is not directed above the target canopy.
- The outside of the sprayer is turned off when turning at the end of rows and when spraying the outer row on each side of the application site.

| CROPS | DISEASE | RATE | WHP | CRITICAL COMMENTS |
|---|--|---|-------|--|
| Strawberries (field and protected cropping) | Grey mould (<i>Botrytis cinerea</i>) | Dilute spraying: 25 mL/100 L Use when spray volume is between 1000 to 1200 L/ha OR 250 mL/ha Use when spray volume is less than 1000 L/ha Do not apply volumes less than 500 L/ha | 1 day | Reduce background levels of disease by removing infected plant debris and/or rotted fruit throughout the season. A fungicide program for the control of Botrytis should commence early before disease appears. Apply MIGIWA® KINOPROL® ACTIVE FUNGICIDE before first sign of disease or when conditions are conducive to disease development as part of a disease management program. Apply sprays at 7- to 10-day intervals. Use the shorter intervals under conditions favouring disease infection. To ensure thorough spray coverage of the crop, apply to the point of run-off targeting foliage, flowers and fruit. As the crop grows, the required dilute spray volume will change and the sprayer setup and operation may also need to be changed. Do not apply MIGIWA as consecutive sprays or apply more than 3 sprays per fruiting season, and follow the CropLife Australia resistance management guidelines. |

| CROPS | DISEASE | RATE | WHP | CRITICAL COMMENTS |
|-------------|--|--|------------|--|
| Wine grapes | Grey mould/ Botrytis bunch rot (<i>Botrytis cinerea</i>) | Dilute spraying: 25 mL/100 L water | – | <p>Apply preventatively when conditions (varietal and climatic) are conducive to disease development as part of a grey mould management spray program.</p> <p>Up to two applications of MIGIWA can be applied per season, with the final application no later than the growth stage E-L 29, berries peppercorn size (not >4 mm in diameter).</p> <p>Apply one application of MIGIWA per season if a total of 2–3 fungicide applications are planned for grey mould management in a season.</p> <p>Two applications of MIGIWA can be made per season if ≥4 fungicide applications are planned for grey mould management in a season. Do not use MIGIWA in consecutive applications for grey mould management.</p> <p>Applications for the management of grey mould should focus on key growth stages and weather conditions. Applications of MIGIWA can be made between E-L 20 (10% cap-fall) and E-L 29 (berries peppercorn size).</p> <p>Apply by dilute or concentrate spraying equipment. Apply in sufficient water volume to obtain thorough coverage of the crop, especially flowers and fruit. As the crop grows, the required dilute spray volume will increase, and the sprayer setup and operation may also need to be changed. Refer to the section on concentrate spraying if low spray volumes are to be used. Apply the same amount of product per hectare to the target crop whether applying by dilute or concentrate spray volumes.</p> <p>Follow the CropLife Australia resistance management guidelines for grey mould in grapes.</p> |
| Apples | Black spot/apple scab (<i>Venturia inaequalis</i>) Powdery mildew (<i>Podosphaera leucotricha</i>) | Dilute spraying: 15 mL/100 L water | 6 weeks | <p>Apply before first sign of disease or when conditions are conducive to disease as part of a disease management program.</p> <p>Applications may commence at green tip or spur burst for black spot control, or at early pink stage for powdery mildew control.</p> <p>Apply sprays at 7- to 10-day intervals. Use the shorter intervals under conditions favouring disease infection or rapid crop growth.</p> <p>As the crop grows, the required dilute spray volume to achieve complete coverage will change, and the sprayer setup and operation may also need to be changed.</p> <p>Refer to the section on concentrate spraying if low spray volumes are to be used.</p> <p>For resistance management: Do not apply more than 2 consecutive sprays of MIGIWA or apply more than 3 sprays per season.</p> |

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

WITHHOLDING PERIODS

HARVEST (H):

STRAWBERRIES – DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

WINE GRAPES – NOT REQUIRED WHEN USED AS DIRECTED

APPLES – DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION

GRAZING (G):

DO NOT GRAZE LIVESTOCK IN TREATED VINEYARDS OR ORCHARDS

EXPORT OF TREATED PRODUCE

Growers should note that MRLs or import tolerances do not exist in all markets for fruit treated with MIGIWA KINOPROL ACTIVE FUNGICIDE.

Strawberry fruit: If growing fruit for export (either fresh or dried) consult your peak industry body or AgNova Technologies Pty Ltd for the latest information on MRLs and import tolerances.

Apples: Treated crop commodities destined for export may require extra time between application and harvest to be accepted in some export markets. BEFORE using MIGIWA KINOPROL ACTIVE FUNGICIDE, you are advised to contact AgNova Technologies and/or your industry body about any potential trade issues and their management.

Wine grapes: BEFORE using MIGIWA KINOPROL ACTIVE FUNGICIDE, contact your winery or the Australian Wine Research Institute (AWRI) at www.awri.com.au for the updated information on MRLs and overseas import tolerances.

GENERAL INSTRUCTIONS

MIGIWA KINOPROL ACTIVE FUNGICIDE is a broad-spectrum DHODHI fungicide, formulated as a suspension concentrate. MIGIWA is recommended for the prevention and control of various foliar plant diseases and has locally systemic activity. MIGIWA must be applied in a regularly scheduled protective spray program in rotation with other fungicides that have a different mode of action. Thorough spray coverage is essential for optimal performance. Use adequate spray volume to ensure complete coverage of the target crop.

Strawberries: The control of grey mould requires an integrated approach. MIGIWA should be used in conjunction with other cultural practices, such as:

- Planting densities that allow good airflow, sunlight penetration & quick drying of the crop
- Minimising overhead irrigation
- Removing infected fruit or plant debris from the field
- Controlling pests that damage fruit (such as light brown apple moth or slugs)
- Using covers to shield crops from wet weather events.

Wine grapes: The control of grey mould requires an integrated approach. MIGIWA should be used in conjunction with other cultural practices such as:

- Increasing sunlight & airflow within the canopy by leaf plucking, bunch thinning or shoot thinning
- Increasing airflow within the vineyard
- Removing diseased fruit from the field
- Controlling pests that damage bunches (such as light brown apple moth).

Apple: Good orchard hygiene is critical to help limit carryover of inoculum for black spot and powdery mildew. The following cultural practices should be employed:

- Applying urea pre-leaf drop to assist in quicker breakdown of leaf litter
- If conditions are favourable for disease development after harvest has finished, applying multi-site fungicides to remaining foliage
- Sweeping and mulching leaf litter from late autumn to mid-winter
- Removing infected shoots and non-harvested fruit
- Pruning to provide an open canopy that permits adequate airflow and sunlight penetration to facilitate quick drying of the crop
- Avoiding or minimising use of overhead irrigation.

Mixing/Application

MIGIWA is a suspension concentrate formulation. While the agitation is running, add the required quantity of MIGIWA to a partly filled spray tank and agitate. Complete filling while agitating.

Although the use of a wetter is not required, the addition of a non-ionic wetter at the registered label rate can help improve coverage. Ensure MIGIWA is completely mixed prior to adding a non-ionic wetter.

Ensure the spray mixture is properly agitated before restarting after stoppage.

Wine grapes, Apples**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 runoff. 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 setup 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 runoff) 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, 1000 L/ha
 2. Your chosen concentrate spray volume: For example, 500 L/ha
 3. The concentration factor in this example is: $2 \times$ (i.e., $1000 \text{ L} \div 500 \text{ L} = 2$)
 4. If the dilute label rate is 25 mL/100 L, then the concentrate rate becomes 2×25 , that is 50 mL/100 L of concentrate spray.
- The chosen spray volume, amount of product /100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.
 - Do not use a concentration rate higher than that specified in the Critical Comments.
 - When concentrate spraying, apply using a minimum spray volume of 300 L/ha or a maximum concentration factor of 3X, whichever is the greater spray volume.
Example 1. The true dilute volume is 1200 L/ha, therefore the minimum spray volume is 400 L/ha (3X)
Example 2. The true dilute volume is 750 L/ha, therefore the minimum spray volume is 300 L/ha (2.5X)
 - For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

Fungicide Resistance Warning

MIGIWA KINOPROL ACTIVE FUNGICIDE is a member of the inhibition of dihydroorotate dehydrogenase within *de novo* pyrimidine biosynthesis group of fungicides (DHODHI). For fungicide resistance management, the product is a Group 52 fungicide. Some naturally occurring individual fungi resistant to MIGIWA KINOPROL ACTIVE FUNGICIDE and other Group 52 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 MIGIWA KINOPROL ACTIVE FUNGICIDE or other Group 52 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, AgNova Technologies Pty Ltd accepts no liability for any losses that may result from the failure of MIGIWA KINOPROL ACTIVE FUNGICIDE to control resistant fungi. Refer to Directions for Use table and published CropLife Resistance Management Strategies www.croplifeaustralia.org.au.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN.

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

Triple-rinse containers before disposal. Add rinsings to 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 deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.

Do not burn empty containers or product.

SAFETY DIRECTIONS

Product is harmful if inhaled. DO NOT inhale spray mist. When opening the container, and preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use, wash contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet. For a copy visit our website at agnova.com.au

CONDITIONS OF SALE

AgNova Technologies Pty Ltd shall not be liable for any consequential or other loss or damage relating to the supply or subsequent handling or use of this product, unless such liability by law cannot be lawfully excluded or limited. All warranties, conditions or rights implied by statute or other law which may be lawfully excluded are so excluded. Where the liability of AgNova Technologies Pty Ltd for breach of any such statutory warranties and conditions cannot be lawfully excluded but may be limited to it re-supplying the product or an equivalent product or the cost of a product or an equivalent product, then the liability of AgNova Technologies Pty Ltd for any breach of such statutory warranty or condition is so limited.

*MIGIWA and KINOPROL are registered trademarks of Nippon Soda Co., Ltd.

This label requires no additional statements in accordance with the Globally Harmonised System of Classification and Labelling (GHS).

In a transport emergency dial 000, Police or Fire Brigade.
For specialist advice in an emergency only, call 1800 033 111 (24 hours).

APVMA Approval No: 91333/139206

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