



**MIGIWA**<sup>®</sup>  
**KINOPROL**<sup>®</sup> ACTIVE  
F U N G I C I D E



**MIGIWA contains 218 g/L ipflufenquin (MOA Group 52)**

## A valuable addition to apple fungicide programs

### MIGIWA has a Novel Group 52 Compound

MIGIWA<sup>®</sup> KINOPROL<sup>®</sup> ACTIVE is a translaminar fungicide for the effective control of the key apple diseases of black spot (also known as apple scab) and powdery mildew.

MIGIWA contains the active ingredient ipflufenquin, also known as KINOPROL. This novel chemistry is the first and only fungicide with the Group 52 mode of action, making it a valuable addition to apple fungicide programs.

Its mode of action stops nucleic acid metabolism via the inhibition of dihydroorotate dehydrogenase within *de novo* pyrimidine biosynthesis (DHODHI). MIGIWA attacks the primary hypha that enters the plant, impeding the production of the pyrimidines thymine, cytosine and uracil. This inhibition process prevents further hyphal growth and spore formation.

A suspension concentrate, MIGIWA has superb crop safety and provides translaminar (locally systemic) activity with 7–10 days protection. MIGIWA is a highly compatible fungicide that mixes readily with water.

### Safety to Beneficials

MIGIWA is compatible with IPM programs. In laboratory tests, it was non-toxic to beneficial species including predatory mites, bees and parasitic wasps.

### Flexibility of Use

MIGIWA has a low use rate and excellent environmental profile when used as directed. MIGIWA has a zero-day re-entry period and a 6-week withholding period prior to harvest.

### Application

MIGIWA should be applied through a calibrated sprayer to ensure thorough, even coverage. Choose nozzle types and pressures to deliver a MEDIUM size droplet according to ASAE specifications. Use the dilute rate of 15 mL/100 L of water and, if using a concentrate sprayer, do not exceed a 3X concentration factor.

### Compatibility

MIGIWA has demonstrated good physical compatibility with a wide range of commonly used plant protection products, however not all products have yet been tested. For updated information, please refer to [agnova.com.au](http://agnova.com.au)

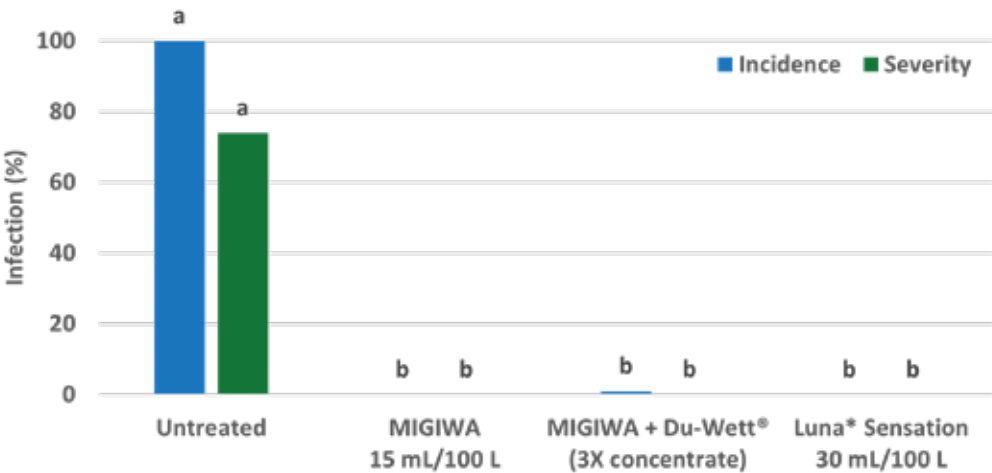
## Features

- Excellent and reliable disease control in apples (black spot, powdery mildew)
- Group 52 fungicide – New mode of action
- Suitable for IPM
- Superb crop safety
- Low use rates
- Wide compatibility range



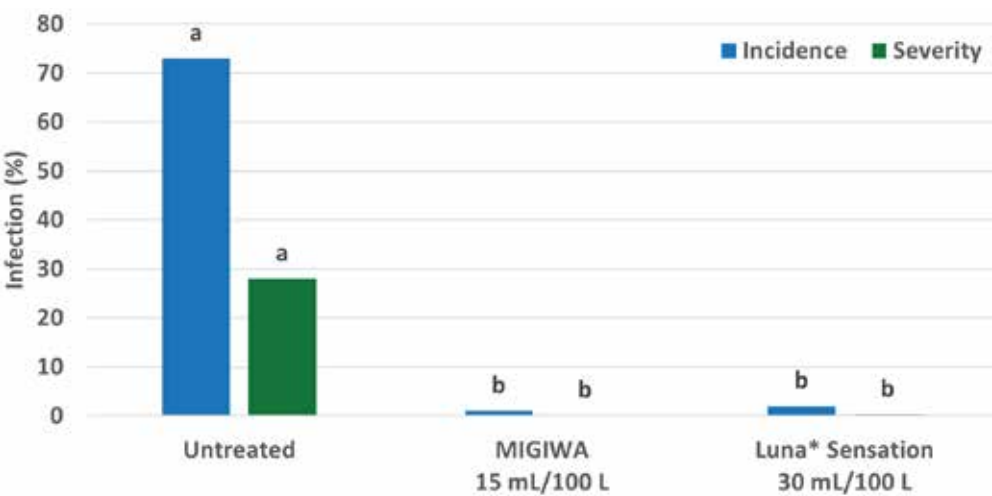
MIGIWA provides Consistent, Robust Disease Control

**Apples – Black Spot**  
Report: 055-18-A6-22-526  
Black spot leaf infection in Apples cv. Cripps Pink (Vic) at 10 DALA



Black spot of apple (*Venturia inaequalis*)

**Apples – Powdery Mildew**  
Report: 055-18-H2-21-504  
Powdery mildew leaf infection in Apples cv. Royal Gala (Tas) at 14 DALA



Powdery mildew of apple (*Podosphaera leucotricha*)

DALA = days after last application

## Australian Trial Results

MIGIWA has been widely tested in Australia in the major apple growing regions. In these trials, MIGIWA gave excellent, robust control of black spot of apple and apple powdery mildew, under high disease pressures. When applied at 15 mL/100 L, MIGIWA was equivalent to or better than commercially available products for disease control.

## Timing

MIGIWA should be applied as part of an early season fungicide program to control the primary infection stages of black spot and powdery mildew, especially when conditions are conducive for disease development and before disease symptoms are visible. Control of primary infection is the key to effective disease control, by not allowing secondary disease to establish, which is then harder and more expensive to manage later in the season.

## Cost Effective - Early Season Disease Control

The application of MIGIWA early in the season ensures the maximum effectiveness of MIGIWA against the key primary infection phases of black spot and powdery mildew.

As there is less canopy at this early stage of crop growth, lower water volumes are required and so, a lower rate of MIGIWA per hectare is applied and spray coverage is more effective. Compare this to later in the season, when a greater canopy demands higher water volumes which translates to more fungicide per hectare, and spray coverage is more difficult. Applying early means growers will achieve a more cost-effective level of disease control with MIGIWA. Better bang for your buck!

**Black spot:** Apply MIGIWA at spur burst.

**Powdery mildew:** Apply MIGIWA at pink bud.

Follow each MIGIWA application with fungicides from different mode of action groups in accordance with the label directions of those fungicides.

## Fungicide Resistance Strategy

MIGIWA use should be limited to two consecutive applications and no more than three applications per season.

Follow CropLife Australia resistance management strategies for black spot of apple (apple scab) to reduce the risk of fungicide resistance developing: <https://www.croplife.org.au/resources/programs/resistance-management/apple-pear-apple-and-pear-scab/>







## Directions For Use

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
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. 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>

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