

Your first-choice fungicide for smarter control





A first-choice fungicide to protect valuable crops

Merivon® has quickly established itself as the stand-out option among co-formulated Group 7 and 11 fungicides for its excellent efficacy, adaptability and favourable regulatory profile.

Merivon combines the proven reliability of a well-established Group 11 active ingredient with a new Group 7 fungicide offering innovative features that promote rapid uptake and extended residual activity. Merivon also promotes extra crop vigour and associated plant health benefits.

Trials show that using Merivon in rotation with Belanty® Fungicide in crops where they are both registered, can achieve better protection throughout critical crop stages than using other products with the same basic modes of action.

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Product profile

Active ingredient	Pyraclostrobin 250 g/L Fluxapyroxad 250 g/L	
Mode of action	Group 7 – SDHI Group 11 – Qol	
Formulation	Suspension Concentrate (SC)	
Adjuvant	Not required	
Compatibility	Merivon is compatible with most commonly used crop protection products, refer to compatibility list on page 6.	
Withholding periods	Almonds and macadamias: 21 days Cherries: 2 days All other registered crops: Nil	
Rainfastness	Rapid uptake and excellent rainfastness (as soon as dry on the leaf).	
IPM fit	Merivon is compatible with most products used in IPM programs and has low impact on beneficial insects, pollinator insects such as bees, and birds	
Pack size	10L	

Crop and disease registrations

	Almonds	Macadamias	Cherries	Lemons / Tangelos	Mangoes	Curcurbits	Fruiting vegetables
Alternaria leaf spot	✓ .						
Anthracnose	✓.				✓.		
Blossom blight/ brown rot/mould	1		4	1		1	
Emperor brown spot				1			
Gummy stem blight						4	
Hull rot	✓.						
Husk spot		✓					
Leaf rust	✓						
Powdery mildew					✓ .	✓	✓
Scab/freckle	✓						
Shot hole	V						
Target spot							✓

Modes of action

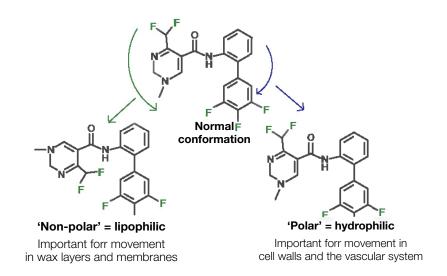
Merivon is a co-formulation of two active ingredients with contrasting and complementary modes of action.

Pyraclostrobin

Pyraclostrobin is a strobilurin (Qol) fungicide that has proved its reliability over many seasons of regular use in nut and fruit crops as the active ingredient in Cabrio®.

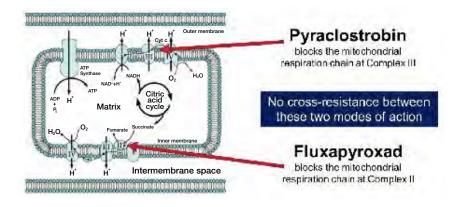
Fluxapyroxad

A key advantage of Merivon is that its fluxapyroxad molecule can switch conformations to facilitate penetration into and movement throughout the leaf.



Different sites of action

Their two different sites of action ensure there will never be any cross-resistance between the two Merivon actives.



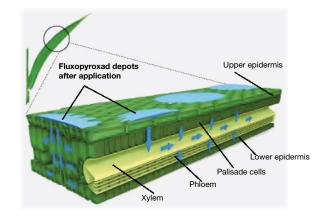
Key fluxapyroxad advantages

Fluxapyroxad is quickly adsorbed to the waxy surface of the leaf in its non-polar form, then steadily released into the transpiration stream in its hydrophilic polar conformation for thorough distribution.

Key pyraclostrobin advantages

In plant cells, the active ingredient is rapidly absorbed and bound into the waxy cuticle.

Pyraclostrobin is not lost to evaporation or lost to rainfall.

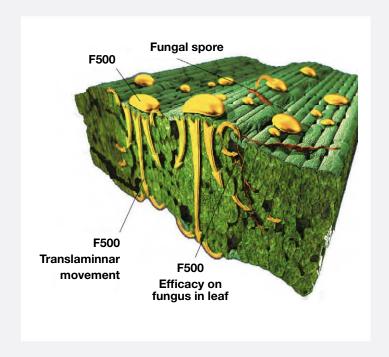


Rapid adsorption = excellent rainfastness

Steady release = extended protective activity

Pyraclostrobin (F500)

F500 is highly lipophilic (Log Pow 3.99) and water solubility is low. Most of applied product is absorbed to and remains bound in the waxy cuticle. Deposits of F500 form reservoirs from which active is slowly released into the plant.

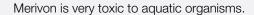


IPM fit

Merivon has low impact on beneficial insects, including pollinators.

Merivon can strengthen IPM programs both through its excellent safety profile and its efficiency: its ability to achieve high levels of long-lasting control at relatively low rates means less total chemical in the environment.

Merivon is compatible with most other products used in IPM programs and has low impact on beneficial insects, pollinator insects such as bees, and birds.





Merivon ecotoxicology

	Fluxapyroxad	Pyraclostrobin
Honeybees	Practically non-toxic	Practically non-toxic
Birds	Practically non-toxic	Practically non-toxic
Fish	LC ₅₀ 534 ppb	LC ₅₀ 6.2 ppb
Invertebrates	Moderately toxic	Practically non-toxic

Tank-mix compatibility

Merivon is physically compatible with the fungicides and insecticides listed in the tables in a two-way tank-mix when both products are used as directed on their labels (maintain constant agitation throughout).

Merivon can be successfully tank-mixed with most commonly used products, except some emulsifiable concentrates. Testing is ongoing.

Compatible fungicides			
Acrobat® SC	Dithane* Rainshield*	Switch*	
Bravo* Weather Stik*	Filan®	Top Wettable Sulphur	
Captan* WG	Polyram® DF	Zampro*	

Compatible insecticides			
Belt* 480 SC	Danisaraba®	Proclaim*	
Calypso* 480 SC	Delegate*	Prodigy*	
Chess*	Karate Zeon*	Success* Neo	
Confidor* 200 SC	Lorsban* EC	Vydate*	
Coragen*	Movento* 240 SC		

Merivon is also compatible with Regalis® Plus Plant Growth Regulator.

NOT compatible	May result in slight particulate formation.
Blue Shield* DF Copper	Ziram Granuflo*

As formulations of other manufacturer's products are beyond the control of BASF, and the quality of water may vary with location, all mixtures should be tested prior to mixing commercial quantities. Physical compatibility of products does not necessarily guarantee biological compatibility. When determining physical compatibility of a product not listed above, or in mixes with Merivon more than a two-way mix, conduct a jar test prior to mixing commercial quantities.

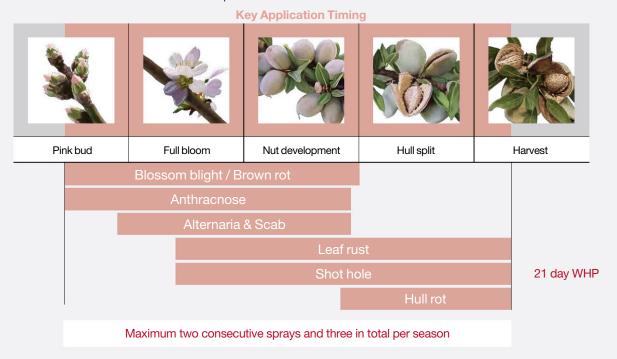
Tank-mix sequence

- 1. Fill the spray tank ½ full and start agitation
- 2. Add water conditioning agents
- 3. Add WG products
- 4. Add **Merivon** and any other SC products
- **5.** (EC products would normally be added next, but some are *incompatible* with Merivon)
- 6. Add soluble liquid products
- 7. Top up the tank with extra water

Merivon for almonds

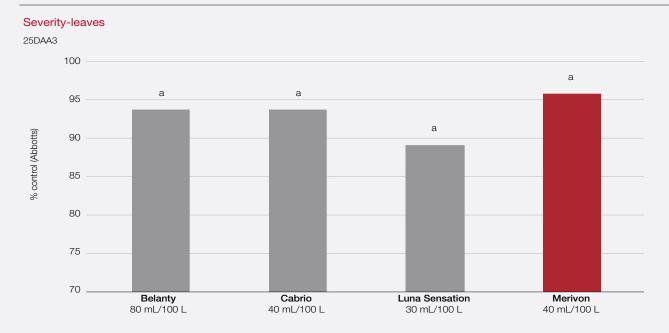
Application timing

Use Merivon in a preventative fungicide program with spray intervals of 10-21 days. For hull rot suppression, 2 applications should be made at 7-14 day intervals, commencing hull split. Always use the shorter interval period when conditions favour disease development.



*Growers should note that Maximum Residue Limits (MRLs) or import tolerances do not exist in all markets for treated nuts. Additionally, some export markets have established MRLs different to those in Australia. If you are growing nuts for export, please check with your local BASF representative for the latest information on MRLs and import tolerances BEFORE using any product.

Rust control in almonds



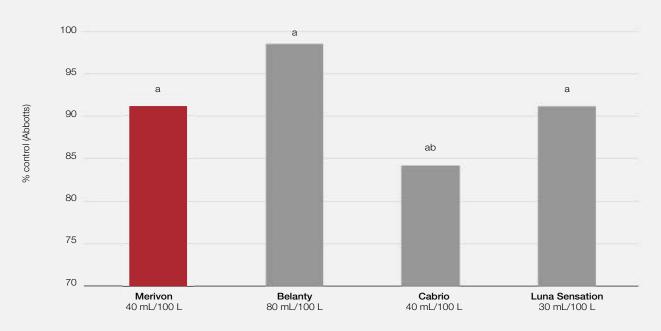
DEV-F-2016-AU-211-A-00.1-AU-ANV-DG1. Lake Powell VIC.

Merivon for almonds (cont.)

Efficacy on Shot hole

Severity-leaves

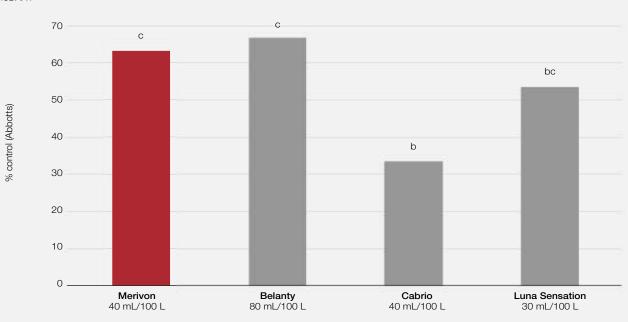
19DAA3



DEV-F-2016-AU-211-A-00.1-AU-AAU-001. Lake Powell, VIC.

Severity-leaves

49DAA4



DEV-F-2017-AU-207-A-00.1-AU-ASA-001. Virginia, SA.

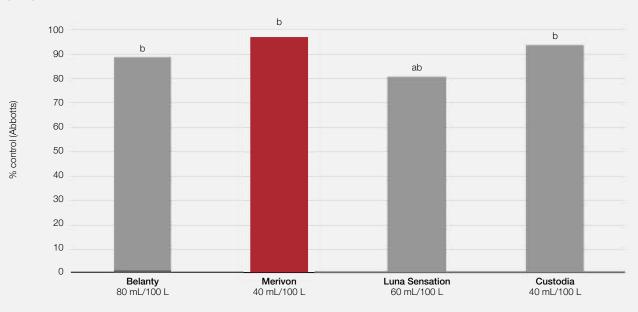
Merivon for almonds (cont.)

Efficacy on Blossom blight/ Brown rot

Class-leading, flexible control of Blossom Blight, Shot Hole and Hull Rot and suppression of Leaf Rust in almonds.

Severity-flowers

29DAA3

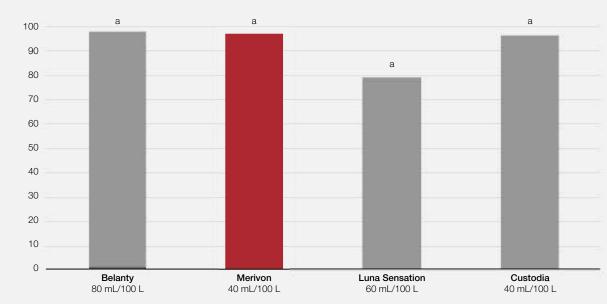


DEV-F-2019-AU-207-A-00.1-AU-ASA-151. Angle Vale SA

Severity-shoots

29DAA3

% control (Abbotts)



DEV-F-2019-AU-207-A-00.1-AU-ASA-151. Angle Vale SA

Merivon for macadamias

Application timing

Merivon can be applied a total of three times from the match-head growth stage. The two permitted consecutive applications should be 21 days apart.



Key Application Timing

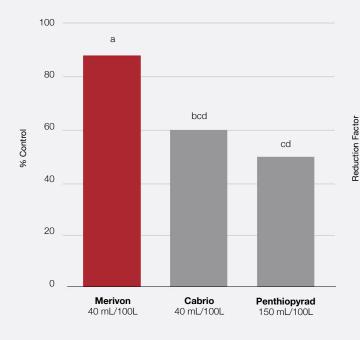


Maximum two consecutive sprays and three in total per season

Husk spot control

Trial results show Merivon to be an excellent option for the control of husk spot.

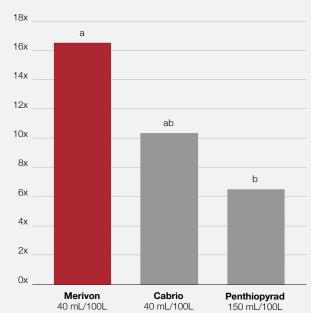
Husk spot control in macadamias



Reduced immature nut drop

The use of Merivon in a spray program shows significant benefit over other chemistries in reducing immature nut drop.

Reduction factor by weight of fallen unripe nuts compared to control

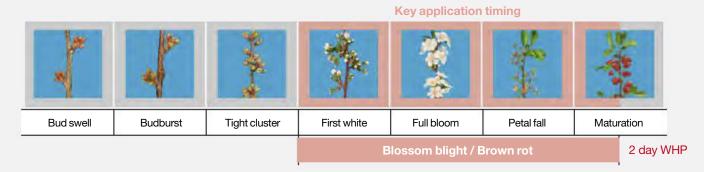


DEV-F-2015-AU-323-A-01.0-X01 (Churchill Monroe Consulting). 2015. Donnellvville. NSW. A16 macadamias.

Merivon for cherries

Application timing

For best control, make the first Merivon application at early flowering and a second at full bloom.



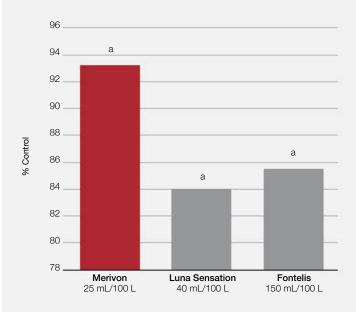
Maximum two consecutive sprays and three in total per season

Blossom blight / Brown rot control

High levels of blossom blight control are shown by using

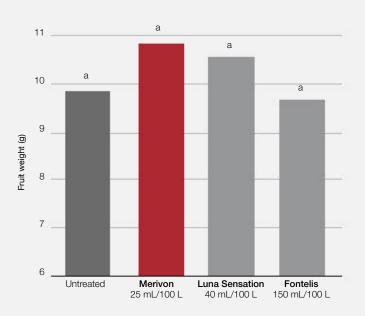
21DAA3

Merivon in a program over flowering in cherries.



Fruit weight at harvest

Use of Merivon in a program showed an increase in the overall mean fruit weight of the cherries harvested.



DEV-F-2015-AU-324-A-01.0 (Peracto, 2016). Spreyton TAS. Cherry cv Simone. 3x applications

Merivon for lemons and tangelos

Application timing

Use preventatively, prior to disease development. The two consecutive Merivon applications should be made 7–14 days apart. Use the shorter interval if conditions favour disease development.

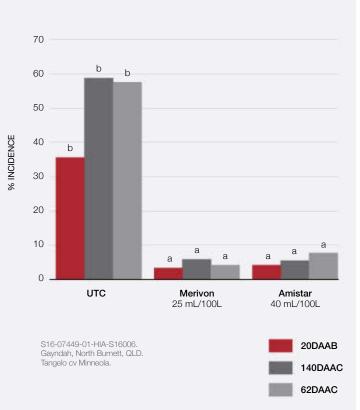
A maximum of 3 applications of Merivon can be applied per year with no more than 2 consecutive sprays per year. Ensure that fungicides from alternative chemical groups are included in the spray program each season.

Germination Sprouting Seedling Vegetative growth Bud development Flowering Fruit Development Harvest Blossom mould and Emperor brown spot Maximum two consecutive sprays and three in total per season

Blossom mould in lemons (Botrytis cinerea)

3.5 2.5 b С FRUIT COUNT 2 h 1.5 0.5 Ω UTC Amistar Merivon \$16-07451-01-HIA-ST6006. 2019. Childers QLD. 13DAAB Lemons cv Eureka. 21DAAC

Emperor brown spot in tangelo (Alternaria alternata)



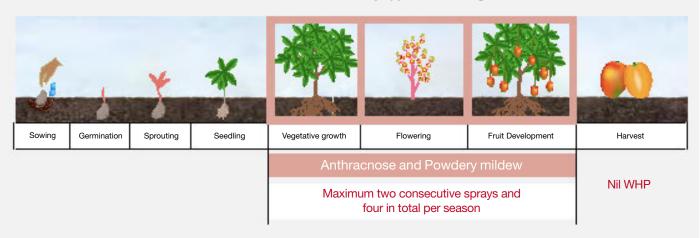
Merivon for mangoes

Application timing

Use preventatively, prior to disease development. The two consecutive Merivon applications should be made 14 days apart. Use the shorter interval if conditions favour disease development.

Merivon can be applied a maximum of 4 times per year, with no more than 2 consecutive sprays.

Key application timing

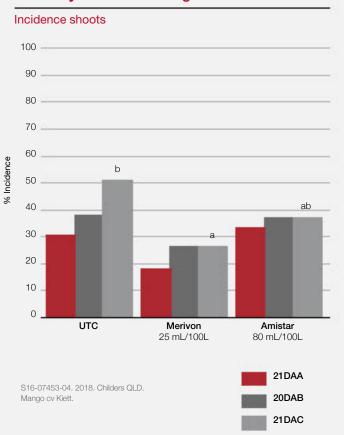


Anthracnose in mangoes

Severity - leaves 100 90 а а ab а 80 а 70 ab а % Control (Abbotts) 60 50 40 30 20 10 0 Merivon Amistar Mancozeb Plus 80 mL/100L 20 mL/100L 505 g/100L 21DAA S17-07240-01. 2020. Delan QLD. Mango cv Kensington Pride. 7DAB

14DAC

Powdery mildew in mangoes

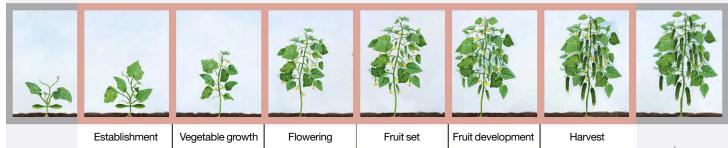


Merivon for cucurbits

Application timing

Apply Merivon preventatively with spray intervals of 7 to 14 days. Use the shorter interval if conditions favour disease development. Tank-mixing Merivon with a protectant fungicide such as Polyram is recommended.

Key application timing



Powdery mildew and Gummy stem blight

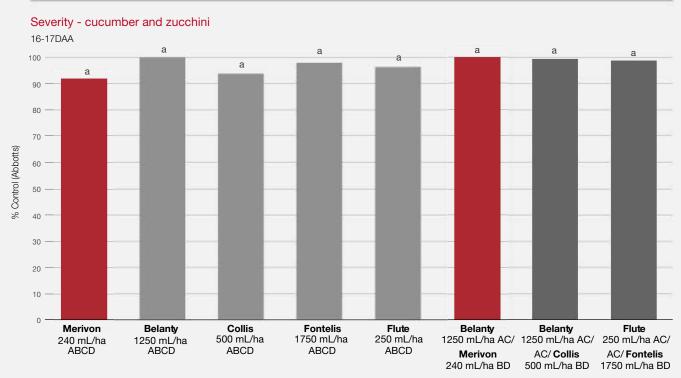
Nil WHP

Maximum two consecutive sprays and three in total per season



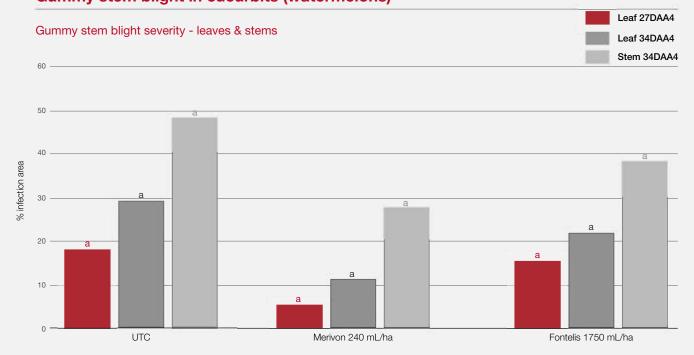
Merivon for cucurbits (cont.)

Efficacy on Powdery mildew



Trials: DEV-F-2021-AU-216-A-01.0-AU-ASA-SA1, DEV-F-2021-AU-216-A-01.0-AU-ASQ-001, DEV-F-2021-AU-216-A-01.0-AU-ATA-001. Average mean control from 3 trials in cucumbers and zucchini using 4 applications (ABCD).

Gummy stem blight in cucurbits (watermelons)



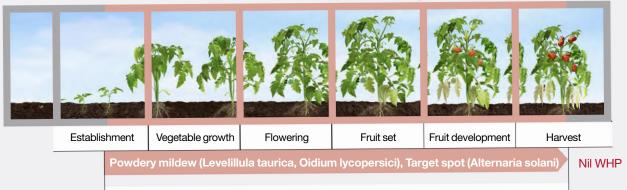
DEV-F-2020-AU-213-A-01.0-AU-ASN-493. Billimari NSW. Watermelon cv Javelin and Nightshade. 4x applications at 300L/ha.

Merivon for fruiting vegetables

Application timing

Apply Merivon preventatively with spray intervals of 7 to 14 days. Use the shorter interval if conditions favour disease development. Tank-mixing Merivon with a protectant fungicide such as Polyram is recommended.

Key application timing



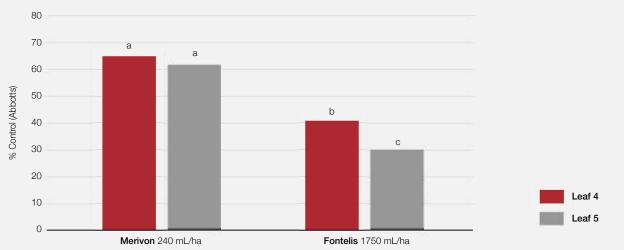
Maximum two consecutive sprays and three in total per season



Merivon for fruiting vegetables (cont.)

Efficacy on powdery mildew in tomatoes

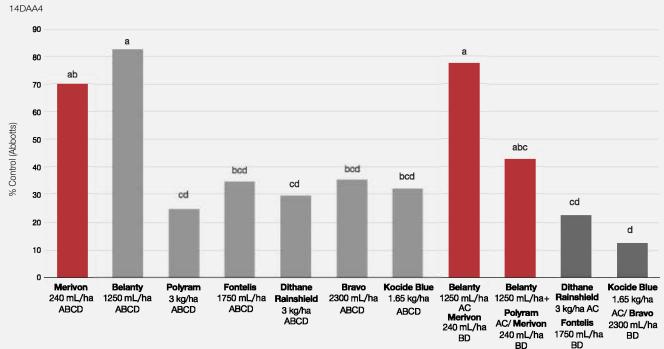




DEV-F-2020-AU-222-A-01.0-AU-ASQ-002 Bundaberg, Qld Tomato cv Entice

Efficacy on target spot in capsicums

Severity capsicum



DEV-F-2021-AU-220-A-01.0-AU-ASQ-341 DEV-F-2021-AU-220-A-01.0-AU-ASQ-342 DEV-F-2021-AU-220-A-01.0-AU-ASQ-343 DEV-F-2021-AU-220-A-01.0-AU-ASQ-344 DEV-F-2021-AU-220-A-02.0-AU-ASQ-757 DEV-F-2021-AU-220-A-02.0-AU-AWN-770 Multi trial analysis. 6x trials. 4 applications.

Merivon[®]

Fungicide

Key Merivon advantages

- Class-leading control of key diseases in nut, fruit and vegetable crops
- Consistently strong performance powered by two modes of action
- Highly cost-effective and reliable when used in spray programs with Belanty
- A low residue profile and short withholding periods
- ✓ Wide and flexible application windows with good IPM fit.
- ✓ Rapid uptake and excellent rainfastness



For more information on Merivon® Fungicide, visit crop-solutions.basf.com.au or contact your local BASF representative on 1800 558 399

