

# A NEW MODE OF ACTION FUNGICIDE FOR ALTERNARIA AND POWDERY MILDEW CONTROL IN APPLES.

## Active constituent

113 g/kg Polyoxin D zinc salt

## Mode of action

Group 19 fungicide

## Formulation

Water dispersible granule (WG)

## Rates

22 g or 40 g per 100 L

## NUFARM'S INTERVENE OFFERS

- A rotational tool to enhance disease programs which are under resistance development pressure.
- A unique **brand new mode of action** (Group 19) with no recorded cross resistance from existing fungicide groups.

## HOW IT WORKS

Nufarm's Intervene inhibits the production of chitin, a critical part of cell wall growth. This process reduces mycelial growth and spore germination, limiting the development of both Alternaria and Powdery Mildew.

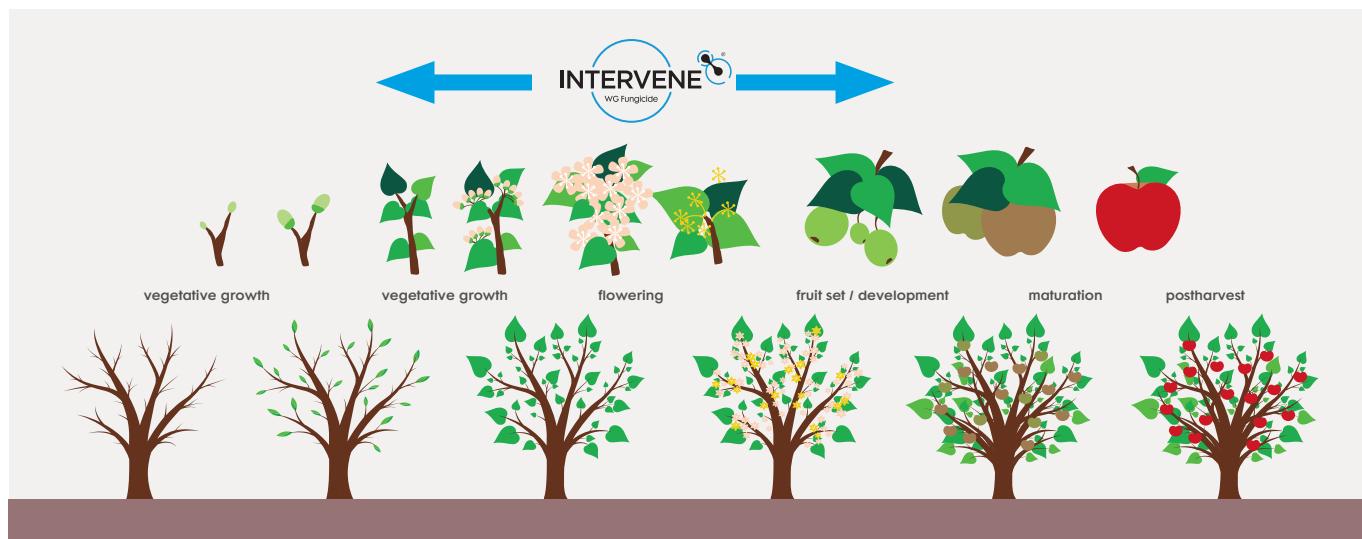
**BRAND NEW** mode of action for the Australian market.

- Nil Withholding - Low residue profile enables flexible positioning.
- Nil marking on fruit.
- Suitable for use in IPM programs.

## WHERE DOES IT FIT?

### Rotation tool

Nufarm's Intervene allows for improved spacing between uses of the same active and provides an alternative mode of action for spray programs. This will assist both disease control and resistance management.



## BEST USE

Apply no more than 4 applications per season (refer to resistance management guidelines).

Reapplication should be conducted on 10-14 day intervals.

A retreatment interval of 7 days is recommended if rainfall occurs between treatment applications.

Adequate coverage is critical - Nufarm's Intervene is not mobile, use of a surfactant can be beneficial when targeting hard to wet surfaces.

Best used preventatively –prior to the onset of visual symptoms.

22 g/100 L highly effective at controlling powdery mildew when used within a preventative program. 40 g/100 L use when favourable conditions occur for powdery mildew.

Alternaria control 40 g/100 L - Best used to prevent population expansion during disease development.

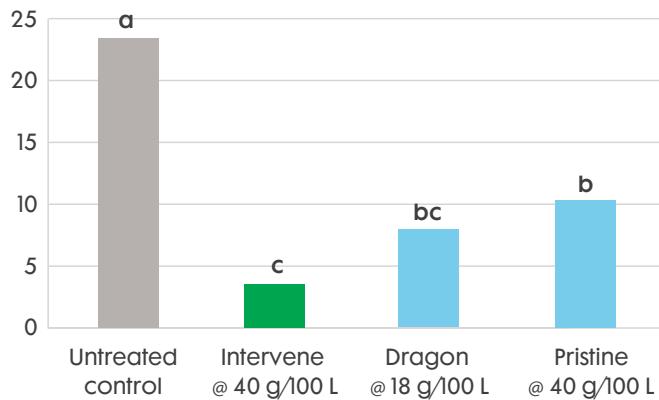
## ALTERNARIA FRUIT SPOT

Due to of the importance of storage and shelf life with apple marketing, assessments were done on Alternaria fruit spot post harvest. This pathogen can begin to express once fruit is brought out of cold/controlled atmosphere storage and displayed on shelves. Alternaria fruit spot causes unsightly brown lesions which can later become points of entry for secondary pathogens.

Pre-harvest applications of fungicides are a common way to help reduce the amount of disease that could express either in the storage or shelf life of the fruit. For this reason, Nufarm trialled an application of Intervene 9 days before harvest.

The apples were harvested and packed into plastic picking crates, then stored in Controlled Atmosphere (CA) for 8 weeks. When the fruit was released from the CA storage, it was moved into cardboard marketing boxes and stored inside at room temperature. Assessments on Alternaria fruit spot were carried out at 25 days after removal from CA.

### Post-harvest - Alternaria fruit spot incidence on Apple cv. Pink Lady, 25days after storage



Trial Reference: NULAV-17-21316500-F03

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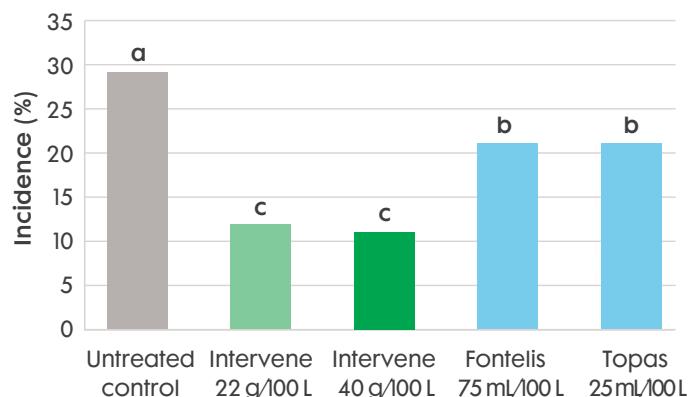
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For more information, contact your local Nufarm Business Development Manager

[nufarm.com.au/product/intervene](http://nufarm.com.au/product/intervene)

## POWDERY MILDEW

### Percent incidence of foliage with Powdery Mildew infection in Apple cv. Royal Gala, 23 DAA3. Stanthorpe, QLD, 2018-19



Trial Reference: NQLD-19-21316500-F60

