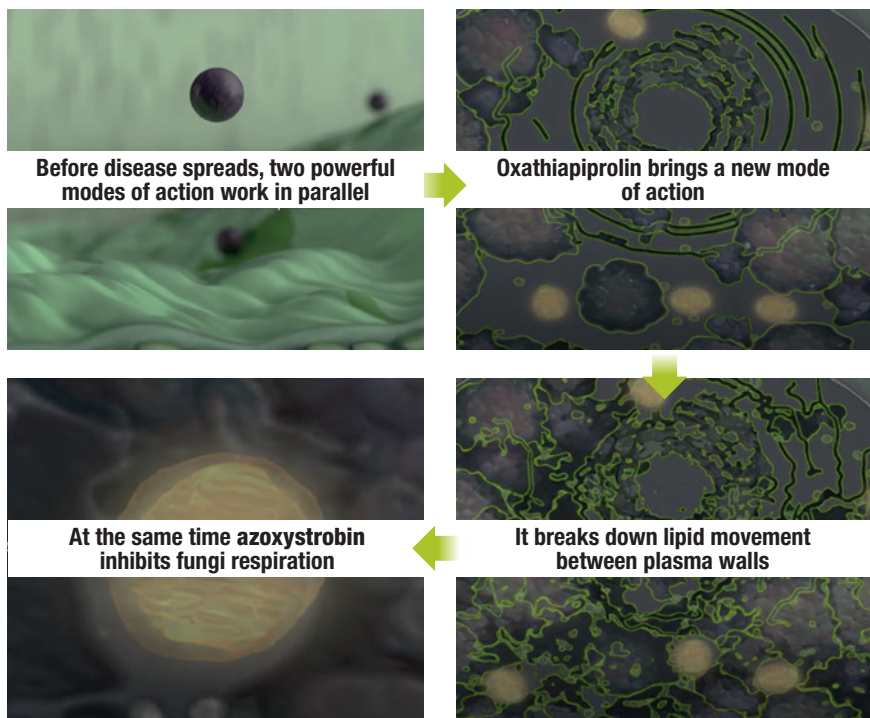


HOW DOES ORONDIS® PLUS WORK?

ORONDIS Plus is based on new chemistry, oxathiapiprolin (OXTP) which is highly active at low dose rates.

OXTP is most active against oomycetes, it inhibits oxysterol binding protein (OSBP) which is needed by the fungi to allow movement of lipids between membranes.

The product moves into the leaves of the crop where it is available to protect against disease.



As well as being approved for use in allium crops including bulb onions, ORONDIS Plus can also be used in outdoor lettuce, a summary of the product claims is given below:

MAIN MESSAGES

- ORONDIS Plus is based on new chemistry which is very active at a low dose
- ORONDIS Plus should always be used in combination with AMISTAR to minimise the risk of fungicide resistance developing to oxathiapiprolin
- ORONDIS Plus with AMISTAR works best as a protectant and should be used before disease becomes established
- ORONDIS Plus with AMISTAR should be incorporated into a programme of treatments to protect onions from onion downy mildew through the season

AVAILABILITY TO THE MARKET

To maintain the effectiveness of oxathiapiprolin (ORONDIS Plus) as a first-class material for control of downy mildew, the active substance should always be used in combination with an effective partner. ORONDIS Plus from Syngenta will be available as a co-pack with AMISTAR to ensure that growers have the correct amount of both materials for optimum disease control.

Crop	ORONDIS Plus Maximum individual dose	AMISTAR Maximum individual dose	Maximum no. of applications	Latest time of application when used with AMISTAR
Lettuce	0.15 l/ha	0.75 l/ha	2 per crop	14 days pre-harvest
Onions, garlic and shallot	0.2 l/ha	1.0 l/ha	3 per crop	14 days pre-harvest

To minimise the risk of fungicide resistance developing, Syngenta always recommend that ORONDIS Plus be applied in combination with AMISTAR.

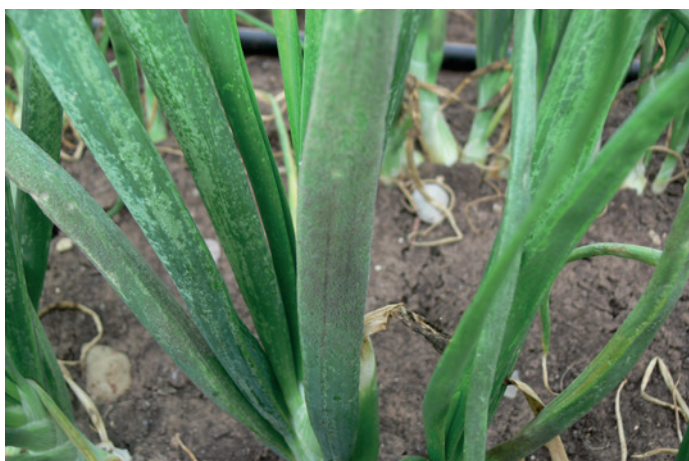
ORONDIS Plus with AMISTAR is not the only source of oxathiapiprolin (OXTP) available in alliums, the table below provides a summary of the options available to growers. Using ORONDIS Plus with AMISTAR offers growers a slightly higher dose rate of OXTP per hectare along with the broad-spectrum activity of AMISTAR. In addition ORONDIS Plus with AMISTAR can be applied later in the life of the crop because the harvest interval is shorter.

Crop	Products and application rates	Dose of active substance per ha	Latest time of application
Onions, garlic and shallot	ORONDIS Plus 0.2 l/ha with AMISTAR 1.0 l/ha	OXTP 20 gai/ha + AZ 250 gai/ha	14 days
	Zorvec Endavia 0.5 l/ha	OXTP 15 gai/ha + Benthiavalicarb 35 gai/ha	28 days

DISEASE CONTROL IN ALLIUMS (BULB ONION)

Depending upon the season and growing situation onion downy mildew (*Peronospora destructor*) can be a devastating disease in the crop, in bad seasons resulting in significant crop losses. To mitigate the risk, growers generally carry out a programme of treatments during the season to try and prevent onion downy mildew getting a hold in the crop. Preventative treatment is much more effective than trying to eradicate an established infection.

For the best activity against onion downy mildew an application of ORONDIS Plus with AMISTAR should be made as a preventative treatment not as a curative application. Trials in onions have also shown that the addition of an adjuvant such as Activator 90 improves control of onion downy mildew.



ONION DOWNY MILDEW CONTROL – RECENT TRIALS EXPERIENCE

Previous trials have shown that ORONDIS Plus with AMISTAR provides optimum efficacy when used with an adjuvant such as Activator 90. If another adjuvant is selected, performance and safety should be checked before widespread use.

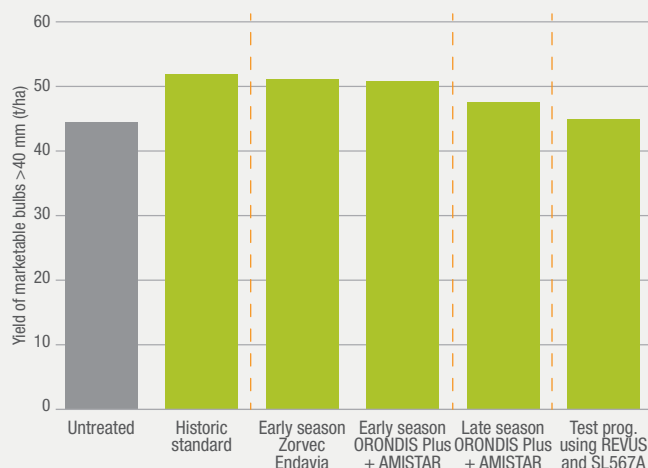
Further trials work was carried out in 2021 to investigate the integration of ORONDIS Plus with AMISTAR into onion downy mildew control programmes.

The 2021 season was not a particularly high-pressure year for onion downy mildew but did provide some useful data.

Once onion downy mildew arrived in the crop it did develop rapidly in the control plots, but this pressure arrived later in the season than is typical.

The contract trial run with Vegetable Consultancy Services Ltd (VCS) showed the flexibility of using ORONDIS Plus with AMISTAR. When applied early in the programme in comparison with Zorvec Endavia the ORONDIS Plus with AMISTAR gave an equal level of disease control. The graph shows the end of season assessments for disease incidence.

Fungicide programmes all increased marketable yield, but the differences were not significant



Source: VCS 2021

ORONDIS Plus with AMISTAR was also successfully used late in the programme where it would be commercially difficult to use Zorvec Endavia due to the longer harvest interval for this product.

ORONDIS Plus with AMISTAR can integrate well into onion downy mildew programmes, the combination provides good disease control with additional benefits from AMISTAR against secondary pathogens such as Botrytis.



Orondis® Plus

syngenta.

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