



Crops(s) Onion

Disease(s) Downy mildew

Resistance management strategy for:

**Group 4** Phenylamides (PA);

Group 28+43 Carbamates + benzamides
Group 40 Carboxylic acid amides (CAA

Group 45+40 Quinone outside inhibitors, stigmatellin binding type (QoSI) + CAA

**Group 49** Oxysterol binding protein inhibitors (OSBPI); and

**Group 49+11** OSBPI + quinone outside inhibitors (QoI).

## **Guidelines:**

- 1. Start disease control early and maintain a regular program using a fungicide from groups other than **Group 4**, **40**, **45+40** or **49** (or **49+11**).
- 2. When conditions favour disease development, **do not** wait for disease to appear, but apply two consecutive sprays of a **Group 4**, **28+43**, **40**, **49** (or **49+11**) product at the interval recommended on the label. Then resume the program of sprays using products from a different mode of action group to the **Group 4**, **28+43**, **40**, **49** or **49+11** products just applied.
- 3. **Do not** apply more than four sprays of a **Group 4** or **40** product per season.
- 4. **Do not** apply more than three sprays of a **Group 28+43** or **49** (or **49+11**) product per crop. **Group 49** (or **49+11**) containing sprays should not consist of more than one in every three of the total number of fungicide sprays per crop.
- 5. **Do not** apply more than two sprays of a **Group 45+40** product per crop.
- 6. Apply Group 4, 40, 45+40 and 49 (including 49+11) fungicides preventatively.
- 7. Apply **Group 4** and **49** (or **49+11**) fungicides only in mixtures with a registered fungicide from a different mode of action group, with no known resistance.
- 11. Continue alternation of fungicides between successive crops. **Do not** make more than (6) six total applications of a **Group 49** (or **49+11**) product per year on the same area targeting the same disease.

## Please note:

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	Group			
	4	28+43	40, 45+40	49, 49+11
Maximum number	2	2	2	2
of consecutive				
applications				
Maximum number	None			None of <b>49</b>
of solo sprays				
Maximum number	4	3	2 or 4	3
of sprays per crop		(or 1 in 3)		(or 1 in 3)
or season *				6 per year

<sup>\*</sup> Maximum application number on product label may differ. Ensure you follow the label recommendations

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