

## Fungicide Resistance Management Strategies Developed by the CropLife Australia Fungicide Resistance Management Review Group Valid as at 10 June 2016

Crop(s): Grape

Pest(s): Downy Mildew

Resistance Management Strategy for:

Group 4 (Phenylamide);

Group 11 (Quinone outside Inhibitor); Group 40 (Carboxylic acid amide); and

Group 45 (Quinone outside inhibitor, stigmatellin binding type) fungicides

- 1. Apply all these fungicides preventatively, **Group 4** fungicides should be applied before the first sign of oilspots or as soon as possible after an infection period.
- Mixtures co-formulations or tank mixes with label rate of alternative mode of action
- 3. Apply a maximum of two consecutive applications of any one group.
- 4. Start preventative disease control sprays using non-**Group 4** protectant fungicides, typically when shoots are 10-20cm long. Continue spraying at intervals of 7-21 days depending on disease pressure, label directions and rate of vine growth.
- 5. Limit the use of **Group 4** fungicides to periods when conditions favour disease development. Always apply **Group 4** fungicides in mixtures.

	Group			
	4	11	40	45 (40)
Max. number of consecutive applications	2	none	2	2
Max. number of solo sprays	none	2	2 (50%)	none
Max. number of sprays per season	4-mix	2	4–mix	4-mix
			(50%)	
Areas of higher agronomic risk	mix	mix	mix	mix

- Group 40 DO NOT apply as the last spray of the season.
   Group 40 apply a maximum of 50% of the total number of downy sprays
- 2. Group 11 If applied alone, do not make consecutive applications.
- 3. **Group 11** apply a maximum of 2 sprays per season, including mixtures.

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