

Flute[®]

FUNGICIDE

**Powdery mildew control in grapevines
sounds sweeter with Flute**

Innovation. Quality. Solutions.

Flute[®] 50 EW

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Unique chemistry for powdery mildew programs.

Flute contains 50 g/L cyflufenamid.

Flute has a unique mode of action

Flute[®] 50 EW is an exciting fungicide with registration in Australia for the control of powdery mildew in grapevines. With a unique mode of action (GROUP U6), Flute provides extremely effective disease control.

Flute:

- Is highly effective at low use rates.
- Controls powdery mildew strains resistant to other fungicide groups.
- Has translaminar and vapour action which improves control of the disease in dense canopies.
- Is the only fungicide in its mode of action group.
- Is an EW (emulsion in water) formulation for a high level of crop safety.
- Has an excellent environmental profile when used as directed.

Flute has a versatile withholding period

- Grapes for domestic wine can be treated up to 5 weeks before harvest.
- Grapes for wine intended for export can be treated up to growth stage E-L 31 [berries pea-size].
- When fruit is to be grown for export (either fresh or dried), growers should consult their peak industry body or **agnova.com.au** for the latest information on MRLs and import tolerances.

Flute has proven performance controlling powdery mildew

Summary of seven trials conducted between 2008 and 2011 in Australia

State	Variety	Bunch severity (% area infected)		
		Unsprayed	Standard	Flute
SA	Chardonnay	64	0 (Cab)	1
SA	Chardonnay	88	2.4 (Cab)	1
Tas	Riesling	13	0 (Cab)	0
Vic	Chardonnay	51.5	1.4 (Pros)	0.4
WA	Cabernet	30.9	10.3 (Pros)	9.8
Tas	Chardonnay	28	0.2 (Pros)	0.4
Vic	Chardonnay	81	6.6 (Pros)	3.8

Where Cab = Cabrio* and Pros = Prosper*

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Yarra Valley Grower Trial on Chardonnay, 2013		
Treatments mL/100 L	Mean % infected bunches 29/1/13	Mean % infected bunches 14/2/13
1. Untreated	15.5 a	23.0 a
2. Flute 35 mL	0.0 b	0.0 c
3. Vivando* 20 mL Mycloss* 25 mL	0.0 b	1.0 bc
4. Grower sprayed block	0.2 b	2.0 b

This Yarra Valley grower trial was representative of grower scale trials conducted in five states in the 2012/13 season. In this trial, three sulphur sprays and a Bayfidan* spray were applied pre-flowering to all four treatments. Treatment 2 (Flute) and 3 (Vivando* and Mycloss*) comprised 2 sprays over the flowering / fruit set period. Treatment 4 was the grower's application of Treatment 3.

The results show the importance of powdery mildew sprays over the flowering / fruit set period. The absence of sprays over this period resulted in 23% infected bunches by the middle of February. The results also show the excellent control achieved by two sprays of Flute over flowering and fruit set.

Directions For Use Table

The following is an extract of the product label and does not constitute the complete directions for use. The product label should be read thoroughly before opening the packaging.

CROPS	DISEASE	RATE	WHP	CRITICAL COMMENTS
Grapevines	Powdery mildew (<i>Erysiphe necator</i>)	<i>Dilute spraying:</i> 35 mL/100 L water <i>Concentrate spraying:</i> Refer to the Mixing/ Application section	5 weeks	Apply before first sign of disease or when conditions (varietal and climatic) are conducive to disease development as part of a protectant disease management program. Apply sprays at 10 to 21 day intervals. Use the shorter intervals under conditions favouring disease infection, and at the start of the season (first leaf separated from shoot tip E-L 7) when there has been a heavy carry-over of powdery mildew infection, or during periods of rapid vine growth. Do not apply more than 2 (two) Flute® 50 EW sprays per season, and follow the CropLife Australia resistance management guidelines. Apply in sufficient water volume to obtain thorough coverage of the crop. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying by dilute or concentrate spraying method. Do not apply at concentrations greater than 3X (i.e. concentrated volumes that require rates greater than 105 mL/100 L). The required dilute spray volume will change and the sprayer setup and operation may also need to be changed, as the crop grows.

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Timing

Flute should be applied as part of a protectant fungicide program before disease symptoms are visible.

Apply two consecutive sprays of Flute at an interval of 10-21 days, with the interval reduced to 10-14 days under conditions favouring disease infection and rapid crop growth.

Under low pressure conditions and when crop growth rates have slowed, the spray interval may be extended to 14-21 days.

To achieve optimum performance, Flute is best applied in two consecutive sprays on a 10-14 day schedule over the flowering/fruitset stage up to berries pea-size.

Application

Flute may be applied as a dilute or concentrate spray depending on the application equipment used; please refer to the product label for details. Add the required amount of Flute to a partly filled tank and agitate. Complete filling while agitating.

Fungicide Resistance Strategy

Flute should be limited to two consecutive applications per crop. This is consistent with the CropLife resistance management strategy to reduce the risk of fungicide resistance.

Compatibility

Flute has demonstrated physical compatibility with a wide range of commonly used insecticides and fungicides, however not all products have yet been tested. For updated information, please refer to agnova.com.au

Rainfastness

Flute should not be applied if spray irrigation or rainfall is expected within two hours of application.

Beneficial Safety

Flute has not shown any adverse effects to bees, ladybirds, green lacewing and trichogramma wasps in Australian trials. This replicates the results of trial work conducted overseas on beneficial insects. Local testing on other beneficial species will continue.

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