

Flute[®] 50 EW FUNGICIDE

Flute contains 50 g/L cyflufenamid (MOA Group U6)



Punish Problematic Powdery

Flute[®] 50 EW Summary

- Registered in Australia for powdery mildew control in wheat
- Powdery mildew specialist fungicide
- New and unique Group U6 mode of action
- Combats resistance to Group 3 and 11 fungicides
- Low use rates provide excellent crop safety and compatibility

Background

Powdery mildew in wheat is caused by the fungus *Blumeria graminis* f. sp. *tritici*.

Due to increasing fungicide resistance and variety susceptibility, powdery mildew has rapidly become a major concern for wheat grown in areas that are prone to the disease.

Flute 50 EW is a new mode of action fungicide for wheat, with no cross-resistance to other products currently in the market. With strong penetrative, translaminar and vapour action, Flute effectively controls powdery mildew.

For many years, in European wheat production, Flute has been the gold standard to combat powdery mildew. Now this mildew specialist is available to protect Australian wheat.

Flute is a liquid EW (emulsion, oil-in-water) formulation which is easy to measure and mix, while displaying excellent safety to the crop and beneficial insects.



Wheat: Untreated control with powdery mildew



Wheat: Treated with Flute 150 mL/ha

Mode of Action

Flute contains cyflufenamid, the sole member of fungicide Group U6, with its mode of action of inhibiting fungi unknown. However, it has been demonstrated to not show cross-resistance to any other group of fungicides. Flute interrupts powdery mildew at several points in its life cycle, preventing the pathogen from penetrating into the leaf, as well as inhibiting hyphal growth within the plant, and inhibiting spore formation. Flute has a narrow spectrum of activity specific to powdery mildew and will not control any other common foliar diseases of wheat.

Application

Flute is registered at 100–150 mL/ha applied by ground rig only. Water volumes >80 L/ha will improve performance. A wetting agent, while not necessary, can be used if Flute is applied with a tank-mix partner that requires an adjuvant. Consider tank-mixing Flute with another registered fungicide to broaden the spectrum of diseases controlled.

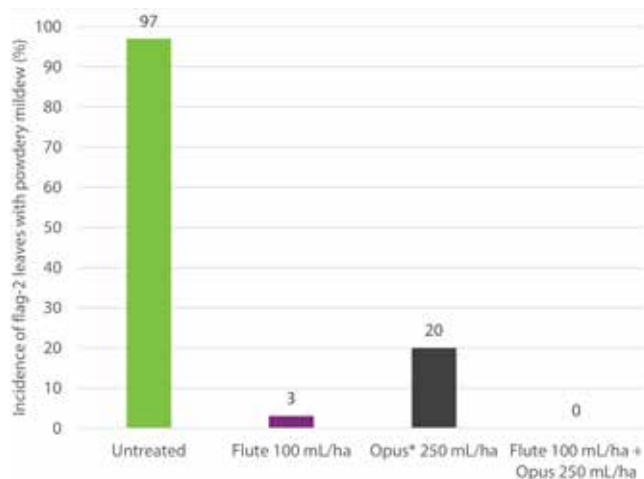


Figure 1. Powdery mildew incidence on flag-2 leaves in wheat cv. Titanium, 27 days after application. Forth, TAS.

Timing

Commence application at the first sign of the disease during the tillering stage, and before disease levels reach 5% of the leaf area. Only apply one application of Flute per crop and do not apply after GS39 (flag leaf fully unrolled, ligules just visible). Flute displays rapid rainfastness, allowing a 2-hour period between the spray drying and the occurrence of rain.

Withholding Period

Harvest: Not required when used as directed: Do not apply Flute after GS39.

Grazing: Do not graze or cut for stock food for four weeks after application.

Resistance Management

Do not apply more than one spray per crop. Do not apply consecutive sprays between seasons in the same paddock. Follow the CropLife Australia recommendations for fungicide resistance management for powdery mildew in wheat <https://www.croplife.org.au/resources/programs/resistance-management/wheat-powdery-mildew/>

Integrated Pest Management

Flute will not harm beneficial insects or arthropods.



Compatibility

Flute's compatibility has been tested with a wide range of fungicides, insecticides and herbicides. The low use rate and EW formulation ensures excellent compatibility and crop safety.

A full list of products tested for compatibility with Flute is available on our website (www.agnova.com.au).

Tank-mixing order

When mixing with other crop protection products, Flute (an EW formulation) should be added to the spray tank after any dry, SC, or EC formulations, but before SL formulations or adjuvants. It is essential that growers read the labels of potential tank mix products thoroughly for any use restrictions that may apply, and conduct their own small scale trials prior to mixing and applying commercial quantities.

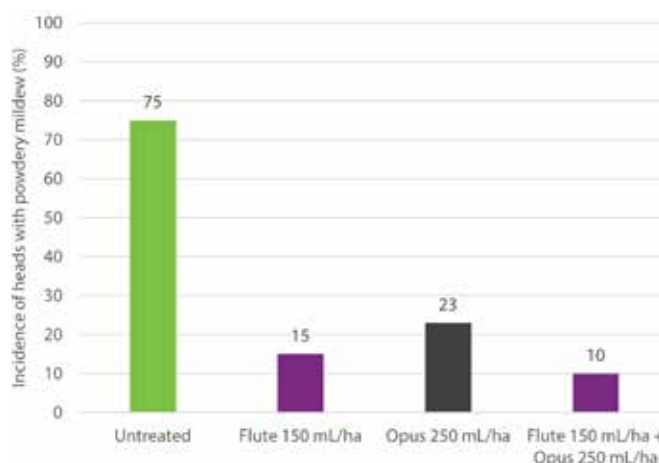


Figure 2. Powdery mildew incidence in heads in wheat cv. Scepter, 29 days after application. York, WA.

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.

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Wheat	Powdery mildew (<i>Blumeria graminis tritici</i>)	100 to 150 mL/ha	H: Nil G: 4 weeks	Regularly monitor the crop and spray at the first sign of the disease during the tillering stage, and before disease levels reach 5% of the leaf. Ensure thorough coverage of stems and leaves. Follow the application of FLUTE 50 EW with a different mode of action fungicide 21 to 28 days later. Use lower rates when tank mixing with another fungicide registered for the control of other foliar diseases or in varieties rated as high resistance to powdery mildew or in low density crops. Use higher rates in varieties rated as low to moderate resistance to powdery mildew or in crops with high density canopies or when using a longer spray interval or under conditions favouring heavy disease pressure. Only apply one (1) application of FLUTE 50 EW per crop. Do not apply after growth stage BBCH 39 (Flag leaf fully unrolled, ligules just visible).

Information and data referred to herein were generated using products and rates that were registered at the time, may include extracts from the product label and does not constitute the complete directions for use. Always read and follow product labels.

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