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Kusabi® 300 SC FUNGICIDE

The Product

KUSABI® 300 SC is an exciting new fungicide for the control of powdery mildew in cucurbits.

KUSABI contains the active ingredient pyriofenone. It is the second product to be commercialised from the actin inhibitor (Group U8) chemical group.

Actin provides strength to the outer structure of fungi, and in its absence, powdery mildew cannot enter the plant or grow normally.

KUSABI has strong vapour activity which supports optimal spray coverage.

Application Rate

KUSABI is registered at 300 or 500 mL/ha. Use the higher rate when disease pressure is high. Apply in a spray program with other fungicides at 7 to 10 day spray intervals.

KUSABI should be applied at 500 mL/ha in a medium to high water volume (500 to 1000 L/ha) as a protectant treatment for crops grown

in areas where powdery mildew occurs frequently and disease levels are normally high.

KUSABI can be used at 300 mL/ha when powdery mildew pressure is normally at lower levels, or when mixed with Du-Wett adjuvant (applied at 200 mL/ha). The use of Du-Wett will also assist spray coverage, especially when lower water volumes (<500 L/ha) are used.

Safety

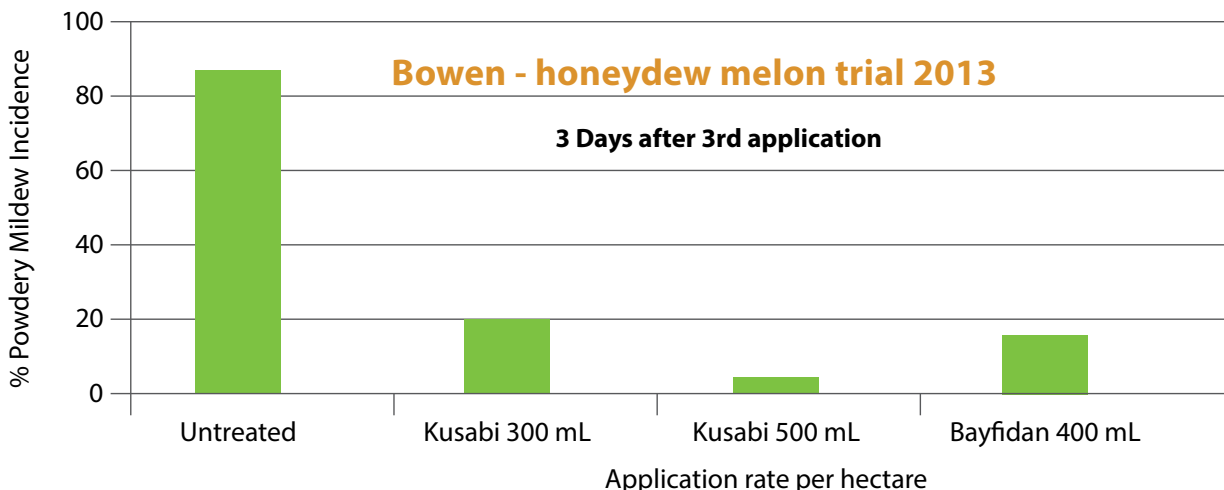
KUSABI has an excellent toxicological and environmental profile when used as directed.

Timing

KUSABI is a new fungicide for the control of powdery mildew in cucurbits. KUSABI performs best when applied as a protectant fungicide to a clean crop. An excellent partner to rotate with other fungicides, KUSABI is ideally suited to follow Flute® in a fungicide spray program from flowering.

Graph 1

Field trials across Australia have shown KUSABI to be highly effective for the control of powdery mildew.



Summary

- 1. KUSABI** is a new powdery mildew fungicide developed and manufactured by ISK, an R&D company from Japan.
- 2. KUSABI** is a single-site fungicide that is subject to a resistance management strategy. This limits the number of applications to three per crop, with strict alternation of chemical groups.
- 3. Rainfast:** 1 hour.
- 4. Compatibility:** While testing is currently underway, growers should conduct their own small-scale trials prior to mixing and applying commercial quantities.
- 5. Crop safety:** Excellent crop safety when used as directed.
- 6.** Apply to a clean crop after the application of a fungicide such as Flute, as part of a complete disease control program.
- 7. WHP:** Not required when used as directed.

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KUSABI® 300 SC

Chemistry for powdery mildew spray programs

Kusabi contains 300 g/L pyriofenone

Resistance Management Strategy for cucurbits:

Group 3: (DMI, pyrimidine)

Group 7: SDHI (Succinate dehydrogenase inhibitors)

Group 8: (Hydroxy-(2-amino-) pyrimidine)

Group U6: (Phenyl-acetamide)

Group U8: (Actin Inhibitor) fungicides

Group 11: (Quinone outside Inhibitor) and other "systemic" fungicides

Group 13: Aza-naphthalenes

- 1. Start disease control early.** DO NOT wait for powdery mildew to appear before spraying, but start as soon as practicable after crop emergence.
- 2. Use protectant sprays in early crop growth.** Apply protectant sprays up to the fruit set stage of the crop if the disease normally occurs during this period. If this schedule is interrupted (eg. by rain) use a tank mix of protectant plus systemic before recommencing the protectant program.
- 3. After fruit set, use systemic fungicides in one or more of the following ways:**
 - a. Tank mix systemic fungicides with a protectant fungicide AND use fungicides from at least two different systemic activity groups per crop.
 - b. Alternate systemic fungicides with a protectant fungicide AND use fungicides from at least two different systemic activity groups per crop.
 - c. Alternate systemic fungicides from at least three different activity groups per crop.
 - d. Apply Group 11 fungicides preventatively.
- 4. Use a maximum of one Group 11 containing spray out of every three fungicide applications.**
- 5. DO NOT use consecutive applications of Group 11 or Group U6 fungicides.**
- 6. DO NOT apply more than two Group 11 or Group U6 products per crop.**
- 7. DO NOT apply more than three Group 7 or Group 13 products per crop and no more than two consecutive applications per year**



CROP STAGE						
DOMINANT DISEASE	ESTABLISHMENT	FLOWERING		FRUIT SET		FRUIT MATURITY
Powdery mildew	Group 3, 7, (7+11), 11 or 13	Group 3, 7, (7+11), 11 or 13	FLUTE (U6)	KUSABI (U8)	FLUTE (U6)	KUSABI (U8)

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