

GRASSES GROWN FOR SEED - ERGOT SUPPRESSION

General Information

GENERAL INFORMATION

Bumper 41.8 EC is a broad spectrum fungicide for the control of specified diseases in labeled crops. Do not use this product in greenhouses or as a tree injection.

When an adjuvant is to be used with this product, Makhteshim Agan of North America, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

APPLICATION INSTRUCTIONS

For best results, sufficient water volume should be used to provide thorough coverage. In most situations, Bumper 41.8 EC is most effective when applied and allowed to dry before a rainfall. Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply directly to humans or animals.

AERIAL APPLICATION: For those crops other than tree crops where aerial applications are indicated, apply in a minimum of 2 gals. of water per acre, unless specified otherwise in the APPLICATION INSTRUCTIONS section of the label. For tree crops, a minimum of 5 to 10 gals. Of water per acre is recommended using the higher volume on large trees unless specified otherwise in the APPLICATION INSTRUCTIONS

section of the label.

GROUND APPLICATION: For tree crops, a minimum of 50 gals. of water per acre is recommended unless specified otherwise in the APPLICATION INSTRUCTIONS section of the label. For all other crops, apply Bumper 41.8 EC by ground equipment in a minimum of 10 gals. of water per acre unless specified otherwise in the APPLICATION INSTRUCTIONS section of the label.

BANDED APPLICATION: For banded applications, the treated area is the area covered by the band, not total cropland planted.

RESISTANCE MANAGEMENT

Bumper 41.8 EC is effective in controlling pests and minimizing the development of resistance when used in rotation with other fungicides in an IPM program. To reduce selection pressure for resistant pests:

- Bumper 41.8 EC should be used in rotation with classes of fungicides with different modes of action.
- Use Bumper 41.8 EC as part of a pest management program that includes cultural and biological control where possible.
- Bumper 41.8 EC is in the Group 3 class of fungicides. The mode of action for propiconazole, the active ingredient in this product, is as a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts membrane synthesis by blocking demethylation. Resistance can develop when products with the same mode of action are used repeatedly.
- Consult your State or local agricultural pest control advisor(s) for pest control strategies established for your area.

Refer to the label for tank mix information.

Limitations, Restrictions, and Exceptions

GRASSES GROWN FOR SEED

Ergot Suppression (IDAHO, OREGON, WASHINGTON ONLY): *Claviceps purpurea*, causal agent of ergot, produces elongated, black sclerotia that replace seeds in infected florets of grasses grown for seed. Sclerotia serve as the primary source of inoculum. Under moist springtime conditions, spores from sclerotia infect plants during flowering. Infection produces exudates which impede harvest. Disease history (observing ergot in a field the previous season), cultivar susceptibility, and environmental conditions which encourage disease are factors to consider when attempting to minimize losses from ergot.

Apply Bumper 41.8 EC just prior to anthesis using a minimum of 20 gals. of water

per acre with ground equipment or a minimum of 10 gals. of water per acre with aerial equipment. Under severe disease conditions, or periods of extended bloom, make a second application 7-10 days later. For ergot suppression, do not make more than 2 applications per growing season. For best results, tank-mix Bumper 41.8 EC with an appropriate surfactant (contact Extension or MANA personnel for information on surfactants used for ergot suppression in your area).

Do not apply more than 16 fl. oz. of Bumper 41.8 EC per acre per growing cycle for ergot suppression. Make the last application at least 20 days before seed matures.

To avoid possible illegal residues, do not: (1) feed hay cut within 20 days of the last application, or (2) graze treated areas within 140 days of the last application.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Irrigation](#)

Rates

[field_rates 0](#)

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Restricted Entry Interval

24 hours

Timings

[Just prior to anthesis.](#)