

SOIL-DIRECTED AND OTHER FOLIAR APPLICATIONS - HOPS

General Information

FORESTRY APPLICATION INSTRUCTIONS

Consult with recognized forest pest management authorities or an AEF Global Inc. representative regarding appropriate timing and method of application. The timing and number of applications required for effective forest protection will depend upon the target pest, target foliage development, pest pressure and larval activity. Correspond applications with sufficient foliage development (shoot elongation or leaf expansion) to ensure maximum spray deposit. To the extent possible, apply treatments after egg hatch has been completed to assure that the maximum number of larvae is present during the treatment period. In conditions where egg hatch is extended and/or larval development is significantly advanced and/or larval populations are high, use of higher rates and/or additional applications, 3-10 days apart, is recommended. See dose rate table for pest-specific application instructions.

Ground Application:

Dilute required amount of Bioprotec PLUS with water only to the volume required to provide thorough coverage. Do not wet foliage to the point of excessive runoff.

For mist blower applications, add Bioprotec PLUS to water at a ratio of 1:20 to 1:50. Use a maximum of 10.7 gallons of spray mixture per acre.

For high volume hydraulic sprayers, add Bioprotec PLUS to water at a ratio of 1:50 to 1:500. Use a maximum of 107 gallons of spray mixture per acre.

Aerial Application:

Apply only by fixed-wing or rotary aircraft equipment that has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific.

Apply only at the rate specified for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application by using appropriate marking devices and/or electronic guidance equipment.

Undiluted applications are highly recommended for most labeled pests. To improve coverage, Bioprotec PLUS may be diluted with water and applied at the rates indicated in the dose rates table. Total volume of spray material to be applied per acre depends upon the target pest, target foliage, weather, spray equipment and droplet size. Best results are expected when Bioprotec PLUS is applied undiluted to dry foliage with well calibrated aircraft and appropriate spray systems capable of delivering droplets in the range of 500-170 U.S. mesh (30-80 microns) for coniferous foliage and 270-100 U.S. mesh (50-150 microns) for broadleaf foliage.

FOR AGRICULTURAL USES:

For use on trees or shrubs being grown for sale or other commercial use, such as for commercial seed production or research purposes.

- Use the higher rates on advanced larval stages or under high density larval populations.

Limitations, Restrictions, and Exceptions

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Application Directions

- Soil Application (drench or via drip/microsprinkler irrigation): Apply as a drench in water or liquid fertilizer to the soil over the crowns after pruning but before training when shoots are 6 inches or less. May also be applied via drip/micro-sprinkler irrigation
- Foliar spray: At the first sign of a secondary infection (primary infection persists after the soil drench and/or there is evidence of foliar infection), apply in combination with copper fungicides. Apply by ground with a minimum of 50 gal of water per acre.

Use Restrictions:

1. Do not apply foliar sprays of Ridomil Gold SL without a copper fungicide

registered for hops.

2. Do not exceed the equivalent of 0.25 lb ai/A per crop of soil-applied and 0.5 lb ai/A per crop of foliar-applied mefenoxam-containing products.

Method

[Broadcast/Foliar Ground](#)

[Foliar spray](#)

[Soil drench](#)

[Microsprinkler Irrigation](#)

[Foliar Spray](#)

[Broadcast/Foliar Ground](#)

[Foliar spray](#)

[Soil drench](#)

[Microsprinkler Irrigation](#)

[Foliar Spray](#)

Pre-Harvest Interval

45 days

Rates

[field rates 0](#)

[field rates 1](#)

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Restricted Entry Interval

48 hours

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area immediately if there will be no contact with anything that has been treated.

Timings

[Soil drench: After pruning but before training.](#)

[Soil drench: After pruning but before training.](#)