

COTTON - TOBACCO BUDWORM AND COTTON BOLLWORM

General Information

USE INFORMATION

Mayhem insecticide must be ingested and/or contacted by insects to be effective. Proper application techniques help ensure thorough spray coverage and correct dosage necessary to obtain optimum control. Apply at the required rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants, or other qualified authorities to determine appropriate threshold levels for treatment in your area. Apply follow-up treatments of Mayhem per DIRECTIONS FOR USE to keep pest populations within threshold limits. Scout fields regularly to determine optimum application timing based on pest levels and stages of growth.

The primary mode of action is by disrupting cuticle formation and deposition occurring when insects molt, resulting in their death. Due to this mode of action, Mayhem has no direct effect on adults.

NOTE: The compatibility of Mayhem with concurrent releases of insects for biocontrol of plant pests has not been established. When used as directed, Mayhem affects developing immature stages of insects by disrupting the molting process. Consequently, fully developed adult stages of pest and beneficial species are not affected.

Ground Application

Apply required dosage by conventional ground sprayer equipment capable of delivering sufficient water to obtain thorough, uniform coverage of the target crop. Spray equipment boom and nozzles should be oriented in a manner to minimize boom height to optimize coverage uniformity, maximize deposition, and reduce spray drift. Drop nozzles may be required to obtain uniform coverage against certain pests that develop down in the canopy. Use a minimum spray volume of 5 gallons per acre with ground spray equipment in cotton. Higher gallonages will provide better coverage and performance. Use hollow cone, disc-core hollow cone, or twin jet fan nozzles suitable for insecticide spraying.

Aerial Application

For aerial application apply in a total of 2 to 10 gallons per acre using a nozzle configuration that will provide a median droplet size of 200-300 microns. Higher gallonages will provide better coverage and performance. Adhere to the minimum safe application height - not greater than 12 feet above crop canopy. Boom length must be less than 75% of wing span, and swath markers, flagging, or GPS system should be used during application. Make applications when wind speed is between 2 and 10 mph. Do not make applications when wind speed exceeds 10 mph. Under low humidity and high temperatures, adjust spray volume upward to compensate for evaporation of spray droplets.

For aerial application to cotton: Do not apply within 250 feet by air equipment of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries. All applications must include a 25-foot vegetative buffer strip within the buffer zone to decrease runoff.

USE RESTRICTIONS

For ground application (all crops): Do not apply by ground equipment within 75 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries. All applications must include a 25-foot vegetative buffer strip within the buffer zone to decrease runoff.

For aerial application (except cotton): Do not apply by air equipment within 150 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries. All applications must include a 25-foot vegetative buffer strip within the buffer zone to decrease runoff.

For aerial application to cotton: Do not apply within 250 feet by air equipment of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries. All applications must include a 25-foot vegetative buffer strip within the buffer zone to decrease runoff.

RESISTANCE MANAGEMENT: Mayhem is effective in controlling insect pests and minimizing the development of resistance when used in rotation with other insecticides in an IPM program. To reduce selection pressure for resistant pests:

- Use Mayhem in rotation with classes of insecticides with different modes of action.
- For management of pests with short life cycles such as whiteflies, do not use Mayhem more than once within each generation cycle.
- Always apply Mayhem at the required rates and according to label directions. Do not use an application rate alone or in tank mixtures that is less than the minimum amount stated on the label.
- Use Mayhem as part of an insect-management program that includes cultural and biological control where possible.
- Scout pest populations and begin Mayhem applications before the pest becomes established. Focus treatments on early immature stages for best results. For optimum control, thoroughly wet the undersides of leaves when whiteflies and thrips are present.

Limitations, Restrictions, and Exceptions

Application Instructions

Use higher rates and higher spray volumes when larvae are more than 1/4 inch long, the target pest population is 2X or more above state threshold level, or foliage canopy is tall or dense and larvae are present in the lower part of the canopy.

Reapplication on a 7- to 14-day interval will be required to protect new growth.

Scout fields twice weekly for the most effective control.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Band application](#)

Pre-Harvest Interval

30 days

Rates

[field_rates 0](#)

[field_rates 1](#)

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Restricted Entry Interval

12 hours

Timings

[When the majority of eggs are in the blackhead state.](#)