



# BotaniGard® MAXX

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## Product Specifications

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### Product Description

BotaniGard MAXX is a unique combination product containing natural Pyrethrins and *Beauveria bassiana* strain GHA. This combination represents the latest generation of biorationals for insect control. The dual active ingredient formulation offers both synergy and multiple modes of action that work to kill damaging insect and mite pests.

#### *Product Characteristics:*

- EPA registration number: 82074-5
- Signal word: Warning
- REI: 12 hours
- PHI: 0 days
- Shelf life: 12 months from date of manufacture when stored properly in original container
- Storage: Store between 40 °F —75 °F, 85 °F max
- Formulation: Emulsifiable dispersible oil
- Packaging: Quarts (10/case), Gallons (4/case), 2.5 gallon (2/case)

#### *Physical and Chemical Properties*

- Appearance: Opaque, yellow-tan liquid
- Active ingredients: Pyrethrins, *Beauveria bassiana* strain GHA
- Density: 0.8790 g/cm<sup>3</sup> at 20 °C
- pH: 5.58 @ 25 °C

#### *Modes of Action:*

Pyrethrins – IRAC Group 3. Sodium channel modulation resulting in hyper excitation of the nerve cell and loss of its function leading to death of the insect.

*Beauveria bassiana* strain GHA – IRAC Group UN. Spores contacting the insect penetrate the cuticle and grow inside the insect releasing compounds that kill it.

#### *Labeled Methods of Application*

- Hydraulic sprayers (ground)
- Compressed sprayers (ground)
- Ultra-low volume (ULV) (including cold fog applicators) (ground)
- Chemigation (center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems) (ground)
- Aerial



### BotaniGard MAXX Application Considerations

- Apply at first sign of insect infestation. Do not wait until insect populations become heavy
- Apply early in the morning or in the evening hours to:
  - Reduce UV exposure
  - Reduce impact on pollinators
  - Increase performance due to cooler temperatures
- Apply BotaniGard MAXX as a contact insecticide. Good coverage is essential
- Use sufficient water to obtain complete coverage of crop plants
- Do not reapply within 3 days except under extreme insect pressure
- In case of extreme insect pressure, do not reapply within 24 hours
- Do not apply when beneficial insects are present. Allow 1 week after application before release of beneficial insects
- BotaniGard MAXX can be tank mixed with many adjuvants, insecticides and some fungicides. Contact BioWorks for additional compatibility information. Perform a jar test and a small scale test on plants to ensure physical compatibility and plant safety

### Application Rates

Rates for particular crops and pests are as follows:

Crop	BotaniGard MAXX Quantity (fl oz)	Water volume
Vegetables	8 – 64	5 – 100 gal/acre
Aerial application	8 – 32	5 – 10 gal/acre
Diamondback moth	16 – 32	5 - 100 <sup>1</sup> gal/acre
Cabbage looper	32	5 - 100 <sup>1</sup> gal/acre
Imported cabbage worm	16 – 32	5 - 100 <sup>1</sup> gal/acre
Greenhouse fruits, vegetables, flowers, foliage plants	8 – 32 (hydraulic sprayer)	30 gal/acre
Greenhouse fruits, vegetables, flowers, foliage plants	1 – 2 (compressed sprayer)	1 gal/1,000 sq ft

<sup>1</sup> Final spray volume can be up to 400 gallons per acre

Please refer to product labels for complete application details. Additional technical information is available from either our website: [www.bioworksinc.com](http://www.bioworksinc.com), or your BioWorks sales representative. Always read and follow label directions.