



# Bio-SAR™

## FUNGICIDE / NEMATICIDE

**Controls Beech  
Leaf Disease**

**Protects Trees during  
Transplant Process**

**Controls Nematodes  
in Trees/Landscape**

### GUARANTEED ANALYSIS

**Active Ingredient:**

Chitosan .....2%

**Inactive Ingredients:**

Soapbark (*quillaja saponin*), vinegar, water .....98%

**Total** ..... **100%**



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*Growth Solutions represents that this product qualifies for Exemption for registration under Federal Insecticide, Fungicide, and Rodenticide Act. This product has not been registered by the United States Environmental Protection Agency.*

**WARNING: KEEP OUT OF REACH OF CHILDREN**

**NET CONTENTS: 2.5 GALLONS (21.1 LBS)**

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**Bio-SAR is intended as a plant disease control for the following targeted pests:** nematodes (leaf, root, and gall-forming), mildews, blights, leaf spots, cankers, wilts, damping off, anthracnose, and fungal diseases caused by *Botrytis spp.* and *Phytophthora spp.* in both ornamental and edible plants.

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## DIRECTIONS FOR USE:

Apply just prior to the onset of stress conditions and repeat every 20-30 days. Agitate before each use. Foaming is normal.

### APPLICATION RATES:

**Leafy greens and vegetable crops:** For foliar application, use 0.73 fl oz (22 ml) per 1 gal of water. For root drench, use 1 fl oz per gallon of water.

**Ornamental and food-bearing trees and shrubs:** For foliar application, use from 0.73 fl oz (22 ml) to 1 fl oz (29 ml) per 1 gal water. For root drench, use 1 fl oz per gallon of water.

**Ornamental plants, including grasses:** For foliar application, use 1-2 pints per 100 gal of water per acre. For root drench, use 1 fl oz per gallon of water.

### APPLICATION METHOD:

For foliar applications, apply as necessary to achieve complete surface coverage. For root drenches, apply over the entire active root zone and water in as necessary.

### APPLICATION TIMING:

Apply every 20-30 days when pests are most vulnerable. For best effect, apply prior to the onset of disease symptoms. Otherwise, apply when pest development conditions are conducive.

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## SPECIAL TANK MIXING INFORMATION:

- Bio-SAR is best used as a standalone product.
- Follow manufacturers guidelines for cleaning spray equipment prior to mixing. Fill tank to 3/4 full with water.
- Adjust spray solution pH to 3.5 -5.5 prior to adding Bio-SAR into the spray tank. Add acidifying agent to tank.
- Use properly calibrated electronic pH meter or pH strips to check spray tank pH while acidifying.
- Add Bio-SAR to tank. Continue to fill tank with water as needed. Agitate tank again before use. Foaming is normal.

## PRECAUTIONARY STATEMENTS:

Warning. Cause substantial but temporary eye injury. Do not get in eyes or on clothing. Wear appropriate protective eyewear. Avoid contact skin and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Take contaminated clothing and wash before reuse. Use caution when opening the package, the product may build pressure and splash when removing the lid.

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## FIRST AID:

**If in eyes:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**If swallowed:** Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

## STORAGE AND DISPOSAL:

**Storage:** Do not contaminate water, food, or feed by storage or disposal. Store in cool dry area.

**Disposal:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

### Condition of Sale and Warranty

Growth Solutions warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Growth Solutions MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE. Critical and unforeseeable factors beyond Growth Solutions control prevent it from eliminating all risks in connection with the use of this product. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather conditions, presence of other materials, drift to other crops or property, the manner of use or application, or failure to follow label directions will be assumed by the Buyer or User. Handling, storage and use of the product by Buyer and User are beyond the control of Growth Solutions. In no case shall Growth Solutions be held liable for consequential, special or indirect damages resulting from the use of this product. The limit of Growth Solutions' liability shall be the purchase price for the quantity involved.

