



# Plant Guardian™

## Biofungicide Wettable Powder

### ACTIVE INGREDIENT

QST 713 strain of <i>Bacillus subtilis</i> *	14.60%
OTHER INGREDIENTS	85.40%
TOTAL	100.00%

\*Contains a minimum of  $7.3 \times 10^9$  cfu/g

EPA Reg. No. 264-1151-56872

EPA Est. No. 56872-IN-01

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577  
For PRODUCT USE Information Call 1-877-229-3724

### FIRST AID

**IF IN EYES:** Hold eye 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. Call a poison control 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. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor, or going for treatment

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS:

#### CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### ENVIRONMENTAL HAZARDS

To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run-off to water bodies or drainage systems.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for isolation or deformation. Do not culture.

#### BASIC USE INFORMATION

Plant Guardian™ Biofungicide Wettable Powder is a broad spectrum, preventative biofungicide for the control or suppression of many important plant diseases and effectively controls or prevents a wide range of important fungal and bacterial plant diseases and is for use on roses, vegetables, fruits, nuts, flowers, houseplants, foliage, trees, and shrubs.

Make Plant Guardian™ Biofungicide Wettable Powder applications at any time of day, in full sun and high temperatures, without stressing or burning foliage.

Apply Plant Guardian™ Biofungicide Wettable Powder in commonly used pressurized hand-held sprayers, and spray trigger bottles. Plant Guardian™ Biofungicide Wettable Powder can be used on the day of harvest.

#### WHEN TO USE

For best results, treat prior to foliar disease development or at the first sign of foliar disease infection. Repeat at 3 to 10 day intervals or as needed. When environmental conditions favor rapid disease development (high humidity, excessive rain, extreme moisture conditions, etc.) spray more often.

#### BEFORE YOU USE:

**Read and follow these directions when using:** Do not allow spray to drift from application site. Do not allow spray mixture to stand overnight or for prolonged periods.

Net Weight: 1.5 lbs.  
#82281

Manufactured for:  
Gardens Alive!®, Inc.  
5100 Schenley Place  
Lawrenceburg, IN 47025  
513-354-1483  
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### Pressurized Hand-Held Sprayer Application Instructions:

#### Mixing and Application Instructions

- Fill the sprayer or bottle with appropriate amounts of wettable powder and water (use water only).
- Mix the spray solution thoroughly.
- Keep spray solution agitated during application.

#### How Much to Use

**For Fruits, Vegetables, Nuts (e.g. Apples/Pears, Broccoli, Carrot, Cherries, Cucurbits, Grapes, Leafy Vegetables, Onions/Garlic, Pepper, Tomato, and Walnuts):** Mix 1/8 cup (2 TBSP) to 1/2 cup (8 TBSP) of Plant Guardian™ Biofungicide Wettable Powder per gallon of water. Spray plants to run-off, covering both top and bottom surface of foliage to ensure thorough coverage.

**For Annual and Perennial Ornamental Plants, Flowering Plants, Tropical Foliage, Trees and Shrubs:** Mix 1/8 cup (2 TBSP) to 1/2 cup (8 TBSP) of Plant Guardian™ Biofungicide Wettable Powder per gallon of water. Spray plants to run-off, covering both top and bottom surface of foliage to ensure thorough coverage.

**For Lawns, Turf, Sod, and Ornamental Turf:** Mix 1 1/2 TBSP of Plant Guardian™ Biofungicide Wettable Powder per gallon of water. Apply at a rate of 2 gallons of spray solution per 500 square feet of lawn, turf, sod, and ornamental turf.

### HOME and GARDEN VEGETABLES, FRUITS, AND NUTS:

**Artichoke, Asparagus, Berries** (Blueberry, Blackberry, Raspberry, Loganberry, Huckleberry, Cranberry, Gooseberry, Elderberry, Currant, and other berries), **Brassica Leafy Vegetables** (Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards, Kale, Mustard Greens, Kohlrabi, and other brassica leafy vegetables), **Bulb Vegetables** (Onion, Garlic, Shallots, and other bulb vegetables), **Citrus Fruit** (Orange, Grapefruit, Lemon, Tangerine, Tangelo, Pummelo, and other citrus fruit), **Cucurbit Vegetables** (Cucumber, Cantaloupe, Melon, Muskmelon, Squash, Watermelon, and other cucurbit vegetables), **Fruiting Vegetables** (Pepper, Tomato, Eggplant, and other fruiting vegetables), **Grape, Herbs and Spices, Leafy Vegetables** (Lettuce, Celery, Spinach, Parsley, Radicchio, and other leafy vegetables), **Legume Vegetables** (Beans, Green Beans, Snap Beans, Shell Beans, Dry Beans, Garbanzo Beans, Lima Beans, Peas, Chick Peas, Split Peas, Lentils, and other legume vegetables), **Mango, Mint, Olive, Papaya, Peanuts, Pome Fruit** (Apple, Crabapple, Pear, Quince, Mayhaw, and other pome fruit), **Root and Tuber Vegetables** (Carrot, Potato, Sweet Potato, Beets, Ginger, Horseradish, Radish, Ginseng, Turnip, and other root and tuber vegetables), **Stone Fruit** (Apricot, Cherry, Nectarine, Peach, Plum, Prune, and other stone fruit), **Strawberry, Sweet Corn, Watercress, Tree Nuts** (Almond, Pistachio, Pecan, Walnut, Filberts, Chestnut, Cashew, Beechnut, Butternut, and other tree nuts)

### DISEASES CONTROLLED OR SUPPRESSED

**Anthraxnose** (*Colletotrichum* spp.), **Bacteria** (*Erwinia* spp., *Pseudomonas* spp., *Xanthomonas* spp.), **Bacterial Leaf Blight** (*Xanthomonas campestris*), **Bacterial Speck** (*Pseudomonas syringae* pv. Tomato), **Bacterial Spot** (*Xanthomonas* spp.) - suppression, **Bean Rust** (*Uromyces appendiculatus*) - suppression, **Black Mold** (*Alternaria alternata*), **Black Rot/Black Crown Rot** (*Alternaria* spp.), **Black spot of rose** (*Diplocarpon rosea*), **Botrytis** (*Botrytis* spp.), **Botrytis Leaf Blight** (*Botrytis squamosa*), **Botrytis Neck Rot** (*Botrytis* spp.), **Downy Mildew** (*Bremia lactucae*, *Personospora* spp., and *Plasmopara viticola*) - suppression, **Early Blight** (*Alternaria solani*) - suppression, **Fire Blight** (*Erwinia amylovora*) - suppression, **Gray Mold** (*Botrytis cinerea*), **Greasy spot** (*Mycosphaerella citri*) - suppression, **Late Blight** (*Phytophthora infestans*) - suppression, **Leaf spots** (*Alternaria* spp., *Cercospora* spp., *Entomosporium* spp., *Helminthosporium* spp., *Myrothecium* spp., *Septoria* spp.), **Onion Downy Mildew** (*Peronospora destructor*), **Onion Purple Blotch** (*Alternaria porri*), **Phytophthora** spp., **Pin Rot** (*Alternaria/Xanthomonas* complex) - suppression, **Powdery Mildew** (*Uncinula necator*, *Erysiphe* spp., *Sphaerotheca* spp., *Oidiopsis taurica*, *Leveillula taurica*, *Podosphaera leucotricha*, *Oidium* spp., *Podosphaera* spp.), **Rust** (*Puccinia* spp.), **Scab** (*Venturia* spp.) - suppression, **Sclerotinia head and leaf drop** (*Sclerotinia* spp.), **Sour Rot, Target Spot** (*Corynespora cassicola*), **Walnut Blight** (*Xanthomonas campestris*), **White Mold** (*Sclerotinia sclerotiorum*) - suppression

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

**PESTICIDE STORAGE:** Store in a dry area inaccessible to children. Store in original container only. Keep container closed when not in use. Store at room temperature.

### PESTICIDE DISPOSAL AND CONTAINER HANDLING:

**If empty:** Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling, if available.

**If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### CONDITIONS FOR SALE AND WARRANTY

#### IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, plant injury, other property damage, as well as other unintended consequences may result because of factors beyond the control of Gardens Alive, Inc. Those factors include, but are not limited to, weather conditions, presence of other materials or the manner of use or application. All such risks shall be assumed by the user or buyer.

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