

## FIRST AID

**If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**If in eyes:** Flush with plenty of water. Call a physician if irritation persists.

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves and shoes plus socks. Mixers/loaders and applicators must wear a dust/mist-filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow manufacturer's instructions for cleaning / maintaining PPE. Keep and wash PPE separately from other laundry.

### User Safety Requirements

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove PPE immediately after handling this product. If gloves are worn, wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwater.

# BINAB® PlantGard™ WG

## Wettable Granular Mycofungicide

For use in suppressing soilborne fungal pathogens such as *Pythium*, *Rhizoctonia*, *Fusarium*, *Verticillium*, *Heterobasidion*, *Chondrostereum*, *Didymella* and *Botrytis* in Ornamentals and on Tree-wounds. For Indoor/Outdoor Nursery, Greenhouse and Landscape Use Only.

### Active Ingredients:

*Trichoderma harzianum*\*  
Strain (ATCC 20476).....32%  
*Trichoderma polysporum*\*  
Strain (ATCC 20475).....32%  
Other Ingredients.....36%

\*Contains a minimum of 10<sup>6</sup> CFU per gram.

## KEEP OUT OF REACH OF CHILDREN CAUTION

See additional Precautionary Statements on side panel.

Manufactured by:	Distributed by:
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EPA Registration Number 61463-x  
EPA Establishment Number 39836-SE-001

Net Contents: \_\_\_\_\_

Lot Number \_\_\_\_\_

Expiration Date: \_\_\_\_\_



## DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions for exceptions pertaining to the statements in this labeling about PPE, restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WGS).

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the WGS and that involves contact with anything that has been treated, such as plants, soil or water, is coveralls, waterproof gloves and shoes plus socks.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WGS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

## GENERAL INFORMATION

**Active Ingredient:** The active ingredients in BINAB® PlantGard™ WG are hyphal fragments, chlamydo-spores and conidia of the naturally occurring fungi *Trichoderma harzianum* and *Trichoderma polysporum*. The active ingredient may be adversely affected by extreme temperatures or prolonged contact with water (more than 24 hours). See storage instructions.

**Mode of Action:** This product acts through mycoparasitism and competition for nutrients.

### **Tank Mix Compatibility:**

BINAB® PlantGard™ WG is a product with varying compatibility with other pesticides and adjuvants. Preferably, apply the product alone. Otherwise consult with your dealer.

### **Plant Safety:**

BINAB® PlantGard™ WG has shown excellent plant safety but has not been tested on all plant varieties or in all tank mixes. Test BINAB® PlantGard™ WG on a small number of plants to check for potential damage before applying to larger number of plants.

## MIXING AND APPLICATION

BINAB PlantGard WG dissolves readily in water. Add water to the tank in an amount to provide optimal agitation. Slowly add the desired quantity of BINAB® PlantGard™ WG to the tank continuing the agitation. Finally, add the balance of water. Provide sufficient agitation during application to maintain a uniform suspension.

Do not mix more BINAB® PlantGard™ WG than needed for that day. Do not prepare BINAB® PlantGard™ WG the day before application; the *Trichoderma* propagules will die if left overnight or longer in the water tank.

For use in suppressing soilborne fungal pathogens; e.g. *Pythium*, *Rhizoctonia*, *Fusarium*, *Verticillium*, *Heterobasidion*, *Chondrostereum*, and *Botrytis* in Ornamentals and on Tree-wounds. For Indoor / Outdoor Nursery, Greenhouse and Landscape Use Only

## DOSAGE RECOMMENDATIONS

### SOIL TREATMENT

-Plant substrate mix-

#### GREENHOUSE

Peat substrates	7,5-15oz/yd <sup>3</sup>
Pasteurized peat substrates	5oz/yd <sup>3</sup>

-Drench-

#### GREENHOUSE

Inert substrate (e.g.Rockwool) 3-12oz/yd<sup>2</sup>

Peat substrate	35oz. in 100gal. of water
<b>Pot size</b>	<b>Coverage/100gal.</b>
2 in. deep	375-750 ft <sup>2</sup>
4 in. deep	190-380 ft <sup>2</sup>
8 in. deep	90-180 ft <sup>2</sup>
10 in. deep	75-150 ft <sup>2</sup>

#### OUTDOOR / LANDSCAPE

Soil 12-30oz/yd<sup>2</sup>

## APPLICATION FREQUENCY

**SOIL TREATMENT:** Apply at 7-28 day intervals during the season depending on pathogen pressure. Intense pathogen pressure may require more frequent applications. There is no limit on the number of applications of BINAB® PlantGard™ WG that may be made in a season.

## APPLICATION TIMING

Begin treatment of crops at the time of planting. Reapply as necessary under a pest management program that includes close scouting. Intense pest outbreaks may require combination of BINAB® PlantGard™ WG with a compatible fungicide.

## ADJUVANTS

BINAB® PlantGard™ WG is designed for application without additional wetting agents and spreaders. If adjuvants are needed for some other reason, contact your dealer or Mycotech Corporation for specific recommendations. Some wetting agents and spreaders kill the propagules, the active ingredient in BINAB® PlantGard™ WG, or contribute to poor mixing and spray problems.

## COMPATIBILITY WITH CHEMICAL PESTICIDES

BINAB® PlantGard™ WG is compatible with most chemical pesticides. However some pesticide formulations can kill the propagules, the active ingredient in BINAB® PlantGard™ WG. It is preferable not to mix BINAB® PlantGard™ WG with other pesticides. If you are going to use BINAB® PlantGard™ WG in combination with other pesticides, contact you dealer or Mycotech Corporation for specific information. In all cases, pesticides should be used in accordance with their labels.



### **STORAGE AND DISPOSAL**

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

#### **PESTICIDE STORAGE**

Store in a cool and dry place. Avoid storage below freezing temperatures or above 80°F. BINAB® PlantGard™ WG stability decreases with time at elevated temperatures above 80°F. Tightly reclose the container of unused product. Do not contaminate unused product with water.

#### **PESTICIDE DISPOSAL**

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

#### **CONTAINER DISPOSAL**

Do not reuse a container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities.

### **CONDITIONS OF SALE**

BINAB® PlantGard™ WG conforms to the description set forth on this label and is reasonably fit for the purposes described herein when used according to the label directions and specified conditions. The manufacturer disclaims any and all other express or implied warranties of merchantability and fitness for particular purpose. Buyers and users shall assume all risk and responsibility for potential loss or damage if this product is used, stored, handled or applied in a manner inconsistent with this labeling. To the extent permitted by law, manufacturer shall not be liable for more than the purchase price for the quantity involved including incidental, consequential or special damages.



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