

70051-3

01/22/2002

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# MASTER LABEL

[This master label bears directions for both commercial and homeowner use with various application rates specific to the associated container size]

## WRC-AP-1 Biological/Microbial Fungicide

This bag will treat up to \_\_\_\_\_ acres when used at the highest application rate.

For the Control of "Damping-Off" and Root Rot Pathogens of Ornamental and Food Crop Plants Grown in Greenhouses, Nurseries, Homes and Interiorscapes and Outdoors on Agricultural and Ornamental Crops.

**ACTIVE INGREDIENT:**

*Gliricium virens* Strain GL-21.....12%\*

**OTHER INGREDIENTS**.....88%

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

\*Contains 1 x 10<sup>6</sup> CFU/g

**ACCEPTED**  
JAN 22 2002  
Under the Federal Insecticides,  
Fungicides, and Rodenticide Act,  
as amended, for the pesticide  
registration number  
EPA Reg. No. 70051-3

KEEP OUT OF REACH OF CHILDREN

### CAUTION

See side/back panel for Statement of Practical Treatment and Additional Precautionary Statements

EPA Reg. No. 70051-3

EPA EST. No. 44616-MO-01

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

Lot No.: \_\_\_\_\_

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Commercial Use:**

**CAUTION:** May cause eye injury. Do not get in eyes or on clothing. Wear goggles and/or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**Homeowner Use:**

**CAUTION:** May cause eye injury. Do not get in eyes or on clothing. Wear safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID**

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Personal Protective Equipment:**

Applicators and handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks
- Protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS****Commercial Use**

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater.

**Homeowner Use**

Do not apply directly to water. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTANT WITH ITS LABELING**

**Commercial Use**

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.

**Homeowner Use**

Keep unprotected persons out of treated area until dusts have settled.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only 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 and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas without footwear until sprays have dried. A Restricted Entry Interval (REI) has been established.

**GENERAL INFORMATION**

*Gliocladium virens*, the active component in WRC-AP-1, is a naturally occurring, soil fungus which is antagonistic to plant pathogenic fungi such as *Pythium* and *Rhizoctonia*, thereby aiding in control of these "damping-off" and root rot pathogens.

WRC-AP-1 is a granular formulation containing a high concentration of *G. virens* spores suitable for incorporation into soil or soilless media. WRC-AP-1 acts as a preventative and will protect non-infected plants. It may not, however, cure already diseased plants. Where possible, allow the treated soil or media to incubate for 1 day prior to planting to achieve best results. Do not use other soil fungicides with WRC-AP-1 at time of incorporation. Later, addition of fungicides is acceptable but usually unnecessary. Best results are achieved if the contents of an open package are used within three months. Be careful to seal out moisture from the unused material by closing the inner bag tightly.

**FOR INCORPORATION INTO GROWING MEDIA (Ornamentals and Food Crop Plants Grown Indoors and Outdoors)****Commercial Use**

*For incorporation into potting medium in greenhouse flats, plug trays, or pots*

- Mix 1 to 1½ pound of WRC-AP-1 biological fungicide per cubic yard of potting soil or other plant-growing medium. Granules must be distributed uniformly throughout the medium.
- If the potting medium has been heat sterilized, allow it to cool to 110° F or lower before adding WRC-AP-1.
- Allow at least 24 hours after incorporation of WRC-AP-1 before planting seeds, cuttings, or other non-rooted plant material into the treated medium. Plants with established roots can be transplanted into treated soil immediately after mixing with WRC-AP-1.
- Avoid using WRC-AP-1 in media totally devoid of organic matter (such as sand). *G. virens* requires organic matter to grow and work. If the only available organic substrate is the seed, bulb, or other plant material, *G. virens* may cause injury to it.

For incorporation into seedling and planting beds (indoors and outdoors)

- Thoroughly till the soil in the planting bed prior to addition of WRC-AP-1.
- Incorporate WRC-AP-1 granules uniformly within the plant root zone at the rate of 1 to 1½ pounds per cubic yard of soil. The table at right can be used to determine how much WRC-AP-1 to use depending on planting or rooting depth and area to be treated.
- WRC-AP-1 is unlikely to completely eliminate disease from soil already severely infested with pathogenic fungi. For best results, WRC-AP-1 should be used in the greenhouse at the time of planting, so that it has already colonized the root ball of the transplant.

| Planting depth (inches) | Pounds per 100 square feet | Square feet per pound |
|-------------------------|----------------------------|-----------------------|
| 2                       | $\frac{2}{3}$ - 1          | 108 - 162             |
| 4                       | 1½ - 2                     | 54 - 81               |
| 6                       | 2 - 2½                     | 36 - 54               |
| 8                       | 2½ - 3½                    | 27 - 41               |
| 10                      | 3 - 4 $\frac{2}{3}$        | 22 - 32               |
| 12                      | 3½ - 5½                    | 18 - 27               |

Drench application to potted plants, greenhouse flats, or planting beds (indoors or outdoors)

- WRC-AP-1 can be applied as a drench at a rate of ½ to 2 pounds per 100 gallons of water.
- First pre-mix the desired amount of WRC-AP-1 in 2 to 5 gallons of water and agitate or stir for 30 minutes. Then pour off the liquid slurry into a tank containing the remainder of the water, leaving any unsuspended solids in the mixing bucket.
- For greenhouse flats, plug trays, or pots (prior to planting): Apply the finished drench at 100 gallons per 800 square feet (if less than 4" deep) or 100 gallons per 400 square feet (more than 4" deep). Do not water the treated area for 12 hours after application. Allow at least 24 hours between drench application and planting of seeds or non-rooted cuttings. Plants with established roots can be transplanted immediately into treated pots.
- For potted plants with established roots: Apply the finished drench at the base of the plant at a rate of 3 to 4 fluid ounces per plant for small plants (less than 6" tall) or 8 to 12 fluid ounces per plant for larger plants (greater than 6" tall).
- For outdoor planting beds: Apply the finished drench at a rate of 100 gallons per 400 square feet. Do not water the treated area for 12 hours after application.

**Homeowner Use**

**Directions for 0.07 oz package:** WRC-AP-1 should be thoroughly blended with growing media. One 0.07 oz packet (2 grams) will treat one 8-inch pot. To apply WRC-AP-1, fill a clean 8-inch pot  $\frac{1}{4}$  full with potting soil. Spread the contents of the WRC-AP-1 packet onto the soil and mix thoroughly with a small spade. It is important that WRC-AP-1 be uniformly mixed into the media to provide the best performance possible. Transplants, or plants for repotting can then be placed into the pot immediately. Wait at least 24-hours before planting seeds, bulbs or cuttings without roots. Moisten the media with water and keep moist (but not wet) for the next three days. The protective fungus will spread throughout the root system of the plant protecting it from disease organisms.

**Directions for 0.54 oz package:** WRC-AP-1 should be thoroughly blended with growing media. One 0.54 oz packet (15 grams) will treat  $\frac{1}{2}$  cubic foot bag of media, enough to fill 9 six-inch pots. To apply WRC-AP-1, empty a 20 lb. bag of potting soil into a clean 5-gallon bucket. Spread WRC-AP-1 onto the soil in the bucket and mix thoroughly with a spade or shovel. Alternatively, a corner can be cut from the potting soil bag and WRC-AP-1 can be incorporated by shaking, stirring, or kneading the bag. It is important that WRC-AP-1 be uniformly mixed into the media to provide the best performance possible. Soil can then be placed in pots. Moisten the media with water and keep moist (but not wet) for the next three days. Transplants or plants for repotting can be placed into pots immediately, but wait at least 24-hours to plant seeds, bulbs or non-rooted cuttings. The protective fungus will spread throughout the root system of the plant protecting it from disease organisms.

**STORAGE AND DISPOSAL**

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

**Commercial Use**

**Pesticide Storage:** WRC-AP-1 is packaged in an airtight, foil-lined resealable bag designed to protect the fungus from exposure to moisture and oxygen, which can impact storage life. For best results store in a cool, dry place.

In an unopened bag, WRC-AP-1 will retain its biological activity for up to one year at room temperature (70F). Long-term exposure to air and higher temperatures (75 to 100 F) may accelerate loss of bioactivity. Exposure to temperatures above 100 F for extended periods can be detrimental to WRC-AP-1.

An open bag of WRC-AP-1 can be kept for up to 3 months if the bag is tightly resealed and refrigerated (40 to 45 F). Squeeze excess air from the bag before resealing.

**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:** Completely empty bags into application equipment. Then dispose of empty bags in a sanitary landfill, by incineration, or, if allowed by local authorities, by burning. If burned, stay out of smoke.

**Homeowner Use**

**Pesticide Storage:** Keep in original container. Store in a cool, dry, place away from direct sunlight, feed, or foodstuffs. Keep container tightly sealed when not in use.

In an unopened bag, WRC-AP-1 will retain its biological activity for up to one year at room temperature (70F). Long-term exposure to air and higher temperatures (75 to 100 F) may accelerate loss of bioactivity. Exposure to temperatures above 100 F for extended periods can be detrimental to WRC-AP-1.

**Container Disposal:** Do not reuse bag. Discard bag in trash.

October 2000

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**WARRANTY**

This material conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the disease problem, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OF MERCHANTABILITY IS MADE.

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