

# PFR-97™ 20% WDG

## MICROBIAL INSECTICIDE

**For the Control of insect pests on Ornamental Plants Grown in Greenhouses and Nurseries. Do not apply to food crops.**

This bag will treat up to 0.3 acres when used at the highest application rate.

### ACTIVE INGREDIENT:

*Paecilomyces fumosoroseus*.....20%\*

**OTHER INGREDIENTS:**.....80%

**TOTAL:**.....100%

\*Contains 1 x 10<sup>9</sup> CFU/g Apopka Strain 97 (ATCC 20874)  
(equivalent to 0.014% technical grade active ingredient)

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Net Contents: 500 g

EPA Reg. No. 70051-19

EPA Est. No. 70051-CA-001

Lot No.

MANUFACTURED BY:

CERTIS USA, L.L.C.

9145 GUILFORD ROAD

SUITE 175

COLUMBIA, MD 21046

The logo for CERTIS, featuring the word "CERTIS" in a bold, blue, sans-serif font. A green leaf-like graphic element is positioned below the letter "I".

### 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 eye. 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 product diluted in accordance with the directions for use gets on skin, medical attention is not required.

**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 treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have 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 to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Hot Line Number: 1-800-255-3924.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment:**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Mixers, loaders, applicators and other handlers must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with prefix N-95, R-95, or P-95.

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

**USER SAFETY RECOMMENDATIONS:**

User 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**

This product is toxic to fish and aquatic invertebrates. The potential effects of this product on non-target beneficial insects are not known. Do not apply this product while honeybees are actively visiting the treatment area. 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 disposing of equipment washwaters or rinsate. Do not allow contamination of or discharge into lakes, streams, ponds, or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified in the label.

**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 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, 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 during the restricted entry interval (REI) of 4 hours unless wearing appropriate PPE.

For entry into treated areas that are permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, early-entry workers must wear:

- Coveralls, over long sleeve shirt, long pants.
- Waterproof gloves.
- Shoes plus socks.
- A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with prefix N-95, R-95, or P-95.

### **GENERAL**

*Paecilomyces fumosoroseus*, the active component in PFR-97™, is a naturally occurring soil fungus, which will infect several insect pests including whiteflies, aphids, thrips and spider mites. Under proper environmental conditions spores of the fungus attach to and penetrate the cuticle of the insect. The fungus grows inside the insect causing its death. The fungus then emerges from the dead insect to release more spores to infect other insects. PFR-97™ is most effective when application is initiated before or at first sign of insect presence. Because PFR-97™ is a biological control and effectiveness occurs over several days, initiate application before reaching a crisis situation. Monitoring of pest pressure is critical to the effective use of PFR-97™. PFR-97™ can be used in conjunction with other insecticides or beneficial insects. Do not tank mix PFR-97™ with fungicides. In addition, do not apply a stand alone fungicide for 5 days after application of PFR-97™. Keep product refrigerated (4-6°C) in a dry place. Best results are achieved if the contents of an open package are used within one month. Be careful to seal out moisture from the unused material by closing the bag tightly.

**FOR USE IN GREENHOUSES AND NURSERIES FOR CONTROL OF APHIDS,  
MITES, AND WHITEFLIES ON ORNAMENTAL PLANTS**

### **Application Rate**

Dilute PFR-97™ in water at a rate of 14-28 oz. per 100 gallons of water and continuously agitate for 20-30 minutes to completely dissolve the product or dissolve into a well-dispersed suspension. Maintain constant agitation of the suspension and spray onto plants until adequate coverage is reached. Always follow environmental conditions when applying PFR-97™.

### **Low Volume Application**

PFR-97™ can be used in low volume application equipment at rates of 5-30 gallons of water per acre. Premix PFR-97™ at a rate of 14-20 oz. per 5 to 10 gallons of water and agitate continuously for 30 minutes to completely dissolve the product into a well-dispersed suspension. Then dilute the suspension further if necessary for application. Maintain constant agitation while applying PFR-97™. For best results complete coverage of plant tissue is necessary. Always follow environmental condition instructions when applying PFR-97™.

### **Frequency of Application**

Best results will be achieved when applying PFR-97™ at least once per week, for two to three consecutive weeks. If insect pressure inside or outside the treated area remains high, continue weekly treatments. If areas of high insect pressure are encountered, overhead watering can increase effectiveness.

### **Timing of Applications**

Applications are best made in late evening or early morning when insects are sedentary and temperatures moderate and humidity is high. Cloudy, rainy days are optimal times to apply PFR-97™.

### **Environmental Conditions**

**Humidity:** A relative humidity of 80% must be achieved and maintained for 8-10 hours for PFR-97™ to be effective. Watering walkways, operating sprinklers, misters or cooling pads will increase humidity levels. The longer high humidity is maintained the more effective the product will be.

**Air Movement:** High air movement has been found to decrease the effectiveness of PFR-97™. Reduce air movement in the treated area when applying PFR-97™.

**Temperature:** PFR-97™ will work best in a temperature range of 70-90° F (22-30°C). Do not apply at temperatures above 30°C.

### **USE WITH OTHER PESTICIDES**

PFR-97™ can be used alone or in a tank mix with compatible insecticides in accordance with the more restrictive of the label limitations and precautions. Do not tank mix PFR-97™ with fungicides or apply a stand alone fungicide for 5 days after application of PFR-97™. Conduct trial mixes with other products prior to use on a large scale. No label dosage rates should be exceeded. This product cannot be used with any product containing a label prohibition against such mixing. For additional information, contact Certis USA, L.L.C.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store refrigerated in a dry place away from direct sunlight.

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## WARRANTY

Certis USA, L.L.C. warrants that the material contained herein 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 insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. To the extent required by law, 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 OR MERCHANTABILITY IS MADE.

EXPIRATION DATE: USE WITHIN 30 DAYS AFTER OPENING

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