



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 4, 2020

Ana R. Koster  
Global Regulatory Affairs Manager  
Certis USA, LLC  
9145 Guilford Road, Suite 175  
Columbia, MD 21046

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Adding Hemp to the Label and Making Other Minor Changes  
Product Name: PFR-97 20% WDG  
EPA Registration Number: 70051-19  
Application Date: 09/20/2019  
OPP Decision Number: 555867

Dear Ms. Koster:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false

Page 2 of 2

EPA Reg. No. 70051-19

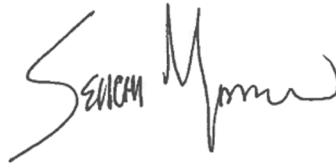
OPP Decision No. 555867

or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Cody Kendrick by phone at (703) 347-0468 or via email at [kendrick.cody@epa.gov](mailto:kendrick.cody@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "SEIICHI MURASAKI". The signature is stylized with a large initial "S" and a cursive "M".

Seiichi Murasaki, Senior Regulatory Advisor  
Microbial Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure: Stamped Label

# PFR-97™ 20% WDG

## MICROBIAL INSECTICIDE

{Alternate Brand Names: None}



For control of insect and mite pests on [vegetables], [fruits], [ornamental plants] [grown in [greenhouses] [or] [other cover]], [tobacco], [and] [other] [food] [crops] [grown [outdoors], [hydroponically], [in greenhouses or other cover], [or] [in nurseries]]

**ACTIVE INGREDIENT:**

*Isaria fumosorosea* Apopka Strain 97..... 20.0%\*  
(formerly *Paecilomyces fumosoroseus*)

**OTHER INGREDIENTS:** ..... 80.0%

**TOTAL:** ..... 100.0%

\*Contains 1 x 10<sup>9</sup> CFU/g of product

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

[See [side][back][inside][other] panel for additional [first aid] [and] [precautionary] statements]

[Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.]

**MANUFACTURED BY:**

Certis USA LLC

9145 Guilford Road, Suite 175  
Columbia, MD 21046

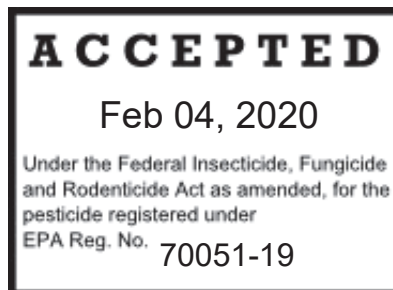


**Net Weight:**

**EPA Reg. No. 70051-19  
EPA Est. No.**

**Lot Number:**

**Store Refrigerated (~39-40°F)**



### FIRST AID

**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 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.

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 [ChemTel].

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if absorbed through the skin. 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, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.
- Mixer/loaders and applicators must wear and use a NIOSH-approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A (if tank mixing with any oil-based adjuvants, spreaders, or spreader/stickers, use only R or P filters); or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. (Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.)

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:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

For outdoor, non-greenhouse use, do not apply when bees are actively foraging. 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

washwater 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.

### **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 State or Tribal agency responsible for pesticide regulation.

Apply this product only as specified in the label.

### **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 during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water) is:

- Coveralls.
- Waterproof gloves.
- Shoes plus socks.

## GENERAL INFORMATION AND PRECAUTIONS

**Mode of Action:** *Isaria fumosorosea*, the active component in PFR-97® 20% WDG, is an entomopathogenic fungus found in infected and dead insects as well as in some soils. *Isaria fumosorosea* infects many insect and mite pests that occur on foliage and other above-ground plants, as well as many soil-dwelling pests. Under proper environmental conditions, spores of the fungus attach to and penetrate the cuticle of the target pest. The fungus grows inside the pest causing its death. The fungus then emerges from the dead pest to release more spores to infect other pests.

Monitoring of pest pressure is critical to the effective use of PFR-97® 20% WDG. Efficacy results from germination and growth of the beneficial fungus over several days, so applications should start before pest numbers have reached crisis levels. PFR-97® 20% WDG is most effective when application is initiated just before or at the first signs that target pests are present.

**[Optimal Environmental Conditions:** PFR-97® 20% WDG is most effective when relative humidity is 80% or higher for 8-10 hours. [Watering walkways, [and/or] operating sprinklers, misters, or cooling pads] {or} [Irrigating] will increase humidity levels. Application at times of low air movement and moderate temperature (70-90°F) will reduce drying conditions and maintain the effectiveness of the fungus.]

**Compatibility:** PFR-97® 20% WDG can be used in conjunction with most other pesticides and is compatible with beneficial arthropods. It can be mixed with copper-based fungicides without impacting performance. However, do not mix with other fungicides, or apply within 5 days of fungicide applications other than copper. PFR-97® 20% WDG can be mixed with most insecticides for which such mixing is permitted by the label, in accordance with the most restrictive label limitations and precautions of all products used in the mixture. Do not exceed any label dosage rates. However, physical compatibility should be checked by mixing small quantities of each tank mix partner in correct proportions (“jar test”) prior to the first time such a mixture is attempted.

### Mixing and Application Instructions\*

**[GREENHOUSES] [(AND OTHER COVER)], [NURSERIES], [AND] [LANDSCAPES]:**

For use on [ornamental plants [(foliage and flowering plants, cut flowers, greens, shrubs)]], [herbs], [spices], [vegetables], [melons], [strawberries], [tobacco], [and] [other] [food crops] [raised to harvest] [or] [for transplanting to production fields] [or] [for commercial resale], [and] [nursery stock] [(including bearing and nonbearing fruit trees and grapevines)], [including crops grown hydroponically].

Mix PFR-97® 20% WDG in clean water at a rate of **14 to 28\* ounces of product per 100 gallons** of water. Agitate for 20-30 minutes before application to ensure a well-dispersed suspension.

Product may be premixed with 5 gallons of water per pound of PFR-97® 20% WDG and agitated continuously for 20-30 minutes to completely suspend and hydrate the spores. Dilute this suspension to the final volume for application. This suspension can also be metered (injected) into a chemigation system without further dilution if desired.

Maintain agitation during application. Apply the suspension using one of the methods below, depending on target pest and application site (foliar or soil).

Repeat applications at 3-10 day intervals over 2-3 weeks or as needed to maintain control. Frequent application may be required under dry conditions, during periods of increased pest build-up or reproduction, or rapid host plant growth. More frequent application at low rates (e.g., 14 - 16 oz/100 gal every 3 to 5 days) is more likely to improve results than using higher rates at low frequency (e.g., 28 oz/100 gal every 10 days).

Use higher rates (24 - 28 oz/100 gal) when applying to large or dense plant canopies to ensure complete coverage.

<p>Foliar (spray) application</p>	<p>For control of whiteflies (<i>Bemisia</i> and <i>Trialeuroides</i> spp.), aphids, thrips, spider mites, leafminers (<i>Liriomyza</i> spp.), citrus leafminers, mealybugs, psyllids, and plant bugs (<i>Lygus</i> spp.)</p>	<p>Apply to plants using pressurized spray equipment (such as backpack sprayer, tractor-mounted spray boom, hand-held spray gun or wand), mist-blower, cold fogger, electrostatic, or other applicator.</p> <p>Spray sufficient volume to achieve thorough coverage of leaves, flowers, fruit, and other above-ground plant parts with minimal runoff.</p>
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<p><b>[GREENHOUSES] [(AND OTHER COVER)], [NURSERIES], [AND] [LANDSCAPES]:</b>          For use on [ornamental plants [(foliage and flowering plants, cut flowers, greens, shrubs)]], [herbs], [spices], [vegetables], [melons], [strawberries], [tobacco], [and] [other] [food crops] [raised to harvest] [or] [for transplanting to production fields] [or] [for commercial resale], [and] [nursery stock] [(including bearing and nonbearing fruit trees and grapevines)], [including crops grown hydroponically].</p>		
<p>Soil application</p>	<p>To control black vine weevil and other root weevils, crown weevils, thrips pupae, grape phylloxera, rootworms, wireworms, Coleoptera grubs and larvae, Lepidoptera caterpillars and larvae, and symphylans</p>	<p><i>Drench application:</i> Apply suspension as a drench of 4 fluid ounces per pot for pots up to 6” diameter, or 8 fl. oz. for pots up to 12” diameter. For pots larger than 12” in diameter, apply 1 pint of drench per pot.</p> <p><i>Soil surface spray:</i> Spray the suspension on the soil surface. If targeting root-feeding insects, follow immediately by sufficient water from a watering can, hose, or overhead sprinkler irrigation to carry the spores into the root zone.</p> <p><i>Chemigation:</i> PFR-97® 20% WDG may also be applied through drip or trickle chemigation. Mix in water as described above and apply using standard injection equipment to introduce into the irrigation lines. See the “Chemigation Instructions” below for additional information.</p> <p><i>Soil injection against root-feeding insects:</i> The PFR-97® 20% WDG suspension may be injected directly into the soil surrounding roots using pressurized shank or other injector. Inject in sufficient volume of water to wet the entire root zone.</p>



<b>MUSHROOM HOUSES:</b> <sup>†</sup> For control of mushroom (sciarid) flies ( <i>Lycoriella</i> spp.) and Phorid flies ( <i>Megaselia</i> spp.)	
At spawning:	Broadcast and incorporate dry PFR-97® 20% WDG (without mixing in water) at a rate of 1 to 2* pounds per 1,000 square feet of bed surface. To enhance distribution throughout the compost or substrate, the required amount of PFR-97® 20% WDG may be mixed with 25 pounds of gypsum per 1,000 square feet prior to application to the compost or substrate.
At casing:	Mix dry PFR-97® 20% WDG into the casing material at a rate of 1 to 2* pounds per 1,000 square feet of bed surface.
During case-hold:	<p>Apply as needed with irrigation water.</p> <p>Make application prior to flushing first break.</p> <p>Mix PFR-97® 20% WDG with clean, non-chlorinated irrigation water at a rate of 28* ounces product per 100 gallons. Agitate for 20-30 minutes before application to ensure a well-dispersed suspension. Do not tank mix with fungicides, or apply within 5 days of fungicide application.</p> <p>PFR-97® 20% WDG may be pre-mixed with 5 gallons of water per pound of product and agitated continuously to completely suspend and hydrate the spores. Dilute this suspension to final volume prior to application. This suspension can also be metered (injected) into a chemigation system without further dilution if desired.</p> <p>Maintain agitation of suspension during application.</p>

<sup>†</sup> Not for use in California.

<p><b>FOR ALL OUTDOOR-GROWN [FOOD], [NON-FOOD], [AND] [SEED] CROPS,</b> including [bearing] [and] [non-bearing] [fruit trees, [(pome] [and] [stone] [fruits], [citrus], [grapes], [and] [tree nuts])] [strawberries], [sweet corn], [leafy vegetables], [melons] [and] [other] [cucurbits], [potatoes], [beans], [hemp], [herbs], [spices], [tobacco], [[cut] flowers] [and] [other] [field-grown [ornamental] plants]</p>		
<p>Apply <b>1 to 2* pounds of PFR-97® 20% WDG per acre</b> in sufficient volume of water to attain thorough coverage of foliage, flowers, and fruit with minimal runoff.</p> <p>Mix the required amount of product in clean water and agitate the spray mix for 20-30 minutes before application to ensure a well-dispersed suspension.</p> <p>For low-volume application, premix with at least 2 gallons of water per pound of PFR-97® 20% WDG and agitate continuously for 20-30 minutes to completely suspend and hydrate the spores. Dilute this suspension to the final volume for application. This suspension can also be metered (injected) into a chemigation system without further dilution if desired.</p> <p>Maintain agitation during application. Apply the suspension using one of the methods below, depending on target pest and application site (foliar or soil).</p> <p>Repeat applications at 3-10 day intervals as needed to maintain control. Frequent application may be required under dry conditions, during periods of increased pest build-up or reproduction, or rapid host plant growth.</p> <p>More frequent application at low rates (1 lb/acre every 3 to 5 days, for example) is more likely to improve results than using higher rates at low frequency (such as 2 lb/acre every 10 days).</p> <p>Use higher rates (2 lb/acre) when applying to large or dense plant canopies to ensure complete coverage.</p>		
<p>Foliar (spray) application</p>	<p>For control of whiteflies (<i>Bemisia</i> and <i>Trialeuroides</i> spp.), aphids, thrips, spider mites, broad mites, rust mites, leafminers (<i>Liriomyza</i> spp.), citrus leafminers, mealybugs, psyllids, and plant bugs (<i>Lygus</i> spp.)</p>	<p>Apply with pressurized spray equipment (such as backpack sprayer, tractor-mounted spray boom, hand-held spray gun or wand), air-assisted orchard sprayer, mist-blower, cold fogger, electrostatic, or other applicator.</p>

<p><b>FOR ALL OUTDOOR-GROWN [FOOD], [NON-FOOD], [AND] [SEED] CROPS,</b> including [bearing] [and] [non-bearing] [fruit trees, [(pome] [and] [stone] [fruits], [citrus], [grapes], [and] [tree nuts])] [strawberries], [sweet corn], [leafy vegetables], [melons] [and] [other] [cucurbits], [potatoes], [beans], [hemp], [herbs], [spices], [tobacco], [[cut] flowers] [and] [other] [field-grown [ornamental] plants]</p>		
<p>Soil application</p>	<p>To control black vine and other root weevils, thrips pupae, rootworms, wireworms, Coleoptera grubs and larvae, Japanese beetle, Lepidoptera caterpillars and larvae, grape phylloxera, and symphylans</p>	<p><i>Soil drench:</i> Apply the PFR-97® 20% WDG suspension as a 4" to 8" banded drench or coarse spray onto the soil surface in the seed furrow, or as a broadcast spray or drench onto the planting bed or at the base of the tree or vine. To control insects beneath the soil surface, incorporate with overhead sprinkler irrigation or light cultivation.</p> <p><i>Chemigation:</i> PFR-97® 20% WDG may also be applied through drip (trickle) and overhead or microjet sprinkler chemigation. Mix in water as described above and apply using standard injection equipment to introduce into the irrigation lines. See the "Chemigation Instructions" below for additional information.</p> <p><i>Soil injection against root-feeding insects:</i> The PFR-97® 20% WDG suspension may be injected directly into the soil surrounding roots using pressurized shank or other injector. Inject in sufficient volume of water to wet the entire root zone.</p>

**\*NOTE:** The higher rates in the ranges provided above may require the use of more than one package.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Keep unopened product refrigerated (~39-40°F) and dry. Seal out moisture from unused material by closing the bag tightly after squeezing out excess air. Keep unused product refrigerated in the original package and use within 30 days after opening.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of onsite 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 LLC 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 pest 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 consistent with applicable 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 FITNESS OR MERCHANTABILITY IS MADE.

## **CHEMIGATION INSTRUCTIONS**

### **PRECAUTIONS:**

Apply this product through pressurized irrigation systems such as drip (trickle) irrigation (including micro-irrigation through spaghetti tubes or individual tubes) or sprinkler irrigation (impact or microsprinklers, overhead boom, solid set, lateral move, end tow, side-roll, center pivot, or hand move, including mist-type systems); through gravity flow systems such as flood, furrow, or border irrigation; or with hand-held calibrated irrigation equipment (such as a hand-held wand with injector). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

### **PUBLIC WATER SYSTEM CHEMIGATION:**

“Public water system” means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

1. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

5. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
6. Do not apply when wind speed favors drift beyond the area intended for treatment.
7. Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and injector system and flush with clean water before use. Failure to provide a clean tank, free of scale or residues may reduce effectiveness of this product.
8. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application must be continuous in sufficient water to apply the specified rate evenly to the entire treated area.

#### **DRIP (TRICKLE) AND MICRO-IRRIGATION CHEMIGATION:**

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application must be continuous in sufficient water to apply the specified rate evenly to the entire treated area.

### **SPRINKLER CHEMIGATION:**

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application must be continuous in sufficient water to apply the specified rate evenly to the entire treated area.
8. Do not apply when wind speed favors drift beyond the area intended for treatment.

### **FLOOD, FURROW, OR BORDER CHEMIGATION:**

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential of water source contamination from the backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
  - a. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
  - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
  - c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the

- supply tank when the irrigation system is either automatically or manually shut down.
- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
  - e. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
  - f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
3. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff. Application must be continuous in sufficient water to apply the specified rate evenly to the entire treated area.



{Optional statements}

- Peel here [for [additional][more][complete] label instructions]. {may be accompanied by an arrow or other graphic indicating location of peel back corner}
- In case of emergency endangering health or the environment involving this product, call [INFOTRAC][other hotline] at [phone number].
- May be used in hydroponic crop production.