


62719-584

2-20-2008

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 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460</p> <p style="text-align: center;">NOTICE OF PESTICIDE: <u>  X  </u> Registration <u>      </u> Reregistration (under FIFRA, as amended)</p>	<p>EPA Reg. Number:</p> <p style="text-align: center;"><b>62719-584</b></p>	<p>Date of Issuance:</p> <p style="text-align: center;">2/20/2008</p>
	<p>Term of Issuance:</p> <p style="text-align: center;"><b>Conditional</b></p>	
	<p>Name of Pesticide Product:</p> <p style="text-align: center;"><b>GF-1948</b></p>	
<p>Name and Address of Registrant (include ZIP Code):</p> <p><b>Dow AgroSciences LLC</b> <b>9330 Zionsville Road</b> <b>Indianapolis, IN 46268</b></p>		
<p><b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p style="text-align: center;">This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>1. Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li> </ol> <p style="text-align: center;">(continued on page 2)</p>		
<p>Signature of Approving Official:</p> <p style="text-align: center;"><i>Mary L. Waller</i></p> <p>Mary L. Waller, Product Manager (21) Fungicide Branch, Registration Division (7505P)</p>	<p>Date:</p> <p style="text-align: center;">2/20/2008</p>	

EPA Form 8570-6

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2) Revise the label as follows:

a) Revise the product registration number to read "EPA Registration Number 62719-584."

b) In the ingredient statement, move the line beginning with propiconazole over to the left margin.

c) In addition to "chemical resistant gloves", please add "Long sleeve shirt, Long pants, shoes plus socks" to the ppe required for Non-WPS uses.

d) Per the Propiconazole RED, under your "Environmental Hazards" section change the first sentence from "This pesticide is toxic to fish" to read "This product is toxic to fish and shrimp".

e) In the Non-Agricultural Use Requirements box, revise the entry restriction sentence to read: Do not enter or allow others to enter until sprays have dried".

f) Add the following pesticide disposal statement to the Storage and Disposal box:

"Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instructions, contact your local State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods".

3) Submit the following data by February 14, 2010:

Guidelines 830.6317 (storage stability) and 830.6320 (corrosion characteristics). It is recommended that the observations be made at 0, 3, 6, 9, and 12 month interval periods.

4) Submit one copy of the final printed labeling before the product is released for shipment.

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

*Mary L. Waller*

Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7505P)

Enclosure: Label stamped "Accepted with Comments"  
Acute toxicity review  
Product Chemistry review

CONCURRENCES							
SYMBOL <	7505P						
SURNAME <	Tracy Keigwin						
DATE <	Feb 21, 2008						

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY

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(Base label for rigid containers 5 gal or less):

# GF-1948

## Fungicide

**Broad spectrum and systemic disease control for turfgrass, ornamentals and non-bearing fruit and nut trees**

Active Ingredient:

propiconazole: 1-[[2-(2,4-dichlorophenyl)-  
4-propyl-1,3-dioxolan-2-yl]methyl]-  
1H-1,2,4-triazole ..... 14.6%

Other Ingredients ..... 85.4%

Total ..... 100.0%

Contains 1.25 lb active ingredient per gallon

Contains petroleum distillates.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
2/20/2008  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
62719-584**

**Keep Out of Reach of Children**

## CAUTION

### Precautionary Statements

#### Hazards to Humans and Domestic Animals

**Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals**

**Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.**

#### Personal Protective Equipment (PPE)

**WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks

**Non-WPS Uses: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) must wear:**

- Chemical-resistant gloves

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.

#### Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 160.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations

Users should:

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- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### 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 swallowed:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**Note to Physician:** Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

This pesticide is toxic to fish. 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.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

### Storage and Disposal

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

**Pesticide Storage:** Store in original container in secured dry storage area.

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refer to label booklet for Directions for Use.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

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Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est. \_\_\_\_\_

Produced for Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

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

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(Base label for rigid containers larger than 5 gal):

# GF-1948

## Fungicide

**Broad spectrum and systemic disease control for turfgrass, ornamentals and non-bearing fruit and nut trees**

Active Ingredient:

propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole .....	14.6%
Other Ingredients .....	85.4%
Total .....	100.0%

Contains 1.25 lb active ingredient per gallon  
Contains petroleum distillates.

**Keep Out of Reach of Children**

## CAUTION

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### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

**Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals**

**Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.**

#### Personal Protective Equipment (PPE)

**WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks

**Non-WPS Uses: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) must wear:**

- Chemical-resistant gloves

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.

#### Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 160.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations

Users should:

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- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### 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 swallowed:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**Note to Physician:** Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

This pesticide is toxic to fish. 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.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

### Storage and Disposal

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

**Pesticide Storage:** Store in original container in secured dry storage area.

**Container Reuse:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Refer to label booklet for Directions for Use.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est. \_\_\_\_\_



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Produced for Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

Net Contents \_\_

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(Label booklet cover):

# GF-1948

## Fungicide

**Broad spectrum and systemic disease control for turfgrass, ornamentals and non-bearing fruit and nut trees**

Active Ingredient:

propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole .....	14.6%
Other Ingredients .....	85.4%
Total .....	100.0%

Contains 1.25 lb active ingredient per gallon  
Contains petroleum distillates.

**Keep Out of Reach of Children**

### CAUTION

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**Refer to inside of label booklet for additional precautionary information including Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

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**Net Contents** \_\_\_\_\_

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[Page 1 to end of label booklet]

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**Precautionary Statements**

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**Hazards to Humans and Domestic Animals****CAUTION**

**Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals**

**Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.**

**Personal Protective Equipment (PPE)**

**WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks

**Non-WPS Uses: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) must wear:**

- Chemical-resistant gloves

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.

**Engineering Controls**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 160.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**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 swallowed:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**Note to Physician:** Contains petroleum distillate – vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

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### Environmental Hazards

This pesticide is toxic to fish. 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.

### Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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, 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, restricted-entry interval, and notification to workers (as applicable). 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 24 hours.

For early entry into 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, wear:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- 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 (WPS) for Agricultural Pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

**Entry Restrictions for Non-WPS Uses:** Do not enter into treated areas until sprays have dried.

### Storage and Disposal

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

**Pesticide Storage:** Store in original container in secured dry storage area.

#### Nonrefillable containers 5 gallons or less:

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side

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of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable containers 5 gallons or larger:**

**Container Reuse:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**Nonrefillable containers 5 gallons or larger:**

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

## General Information

GF-1948 fungicide is a systemic fungicide for use on turfgrass for the control of dollar spot (*Sclerotinia homeocarpa*), brown patch (*Rhizoctonia solani*), anthracnose (*Colletotrichum graminicola*), melting out (*Bipolaris* and *Drechslera* spp.), red thread (*Laetisaria fuciformis*), pink patch (*Limonomyces roseipellis*), rust (*Puccinia graminis*), powdery mildew (*Erysiphe graminis*), stripe smut (*Ustilago striiformis* and *Urocystis agropyri*), summer patch (*Magnaporthe poae*), necrotic ring spot (*Leptosphaeria korrae*), spring dead spot (*Leptosphaeria korrae*, *Leptosphaeria narmari*, *Ophiosphaerella herpotricha*, *Gaeumannomyces graminis*), take-all patch (*Gaeumannomyces graminis*), leafspot (*Bipolaris* spp., *Drechslera* spp.), gray leafspot (*Pyricularia grisea*), pink snowmold (*Microdochium nivale*), Fusarium patch (*Fusarium nivale*), gray snowmold (*Typhula* spp.), yellow patch (*Rhizoctonia cerealis*), and zoysia patch (*Rhizoctonia solani*).

GF-1948 also controls numerous diseases on ornamentals and other landscape and nursery plantings. It controls powdery mildews, rusts, leafspots, scabs, and blights. Refer to the appropriate section for specified diseases and plants.

## General Use Precautions and Restrictions

**Failure to follow the directions for use and precautions on this label may result in plant injury or poor disease control.**

**Chemigation:** Do not apply this product through any type of irrigation system.

Do not use this product as a tree injection treatment.

Do not use GF-1948 in greenhouses.

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## Mixing Instructions

Fill the tank 1/2 to 3/4 full of water. Add the proper amount of GF-1948 and then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

If this product is mixed with other products, use the following mixing sequence:

- Always check the compatibility of the tank mix using a jar test with proportionate amounts of GF-1948, other chemicals to be used, and the water before mixing in the spray tank.
- Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
- Fill tank at least 1/2 full of clean water.
- Add wettable powders to the tank first, allowing them to completely suspend in the water before proceeding. This process can be hastened by premixing the product in water before adding to the tank.
- Add flowables or suspensions next.
- Add GF-1948 next.
- Add other emulsifiable concentrates last.
- Do not leave tank mixtures in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

**Tank Mixes:** For broader spectrum disease control, GF-1948 may be mixed with other fungicides. GF-1948 is also compatible with numerous herbicides and insecticides. Always check compatibility using a jar test before tank mixing. Add Unite compatibility agent (3 pt per 100 gallons) to tank mixes that are incompatible. Follow the directions under Mixing Instructions for tank mixes. Observe all directions and most stringent precautions and limitations on the labels of all products used in the tank mixture. Tank mixtures or other applications of products referenced on this label are permitted only in those states where referenced products are registered.

## Uses

### Turfgrass and Dichondra

- Use GF-1948 in a preventative disease control program.
- Apply in sufficient water to ensure thorough coverage.
- Apply after mowing or allow sprayed area to dry completely before irrigation.
- For control of foliar diseases, allow sprayed area to dry completely before irrigation.
- For control of soilborne diseases, GF-1948 can be watered in immediately after application.
- Under conditions that are optimum for high disease pressure, use the higher recommended rate and shorter interval.
- For optimum turfgrass quality and disease control, use GF-1948 in conjunction with turf management practices that promote good plant health and optimum disease control.
- Evaluate spray additives prior to use. Label directions are based upon data obtained with no additives.
- Before using any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.
- Do not apply more than 16 fl oz per 1000 sq ft per year.

**Important:** Bermudagrass can be sensitive to GF-1948. Do not exceed 4 fl oz per 1000 sq ft per 30 days on any variety of bermudagrass. In Florida, do not apply GF-1948 to bermudagrass golf course greens when temperatures exceed 90°F.

**Note:** Do not graze animals on treated areas. Do not feed clippings from treated areas to livestock or poultry.

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**Rate conversion:** When treating 1000 sq ft or less, values in rate tables may be difficult to measure accurately in fl oz. In such cases, it is suggested that users measure small quantities in a cylinder graduated in milliliters (1 fl oz = 30 milliliters).

Fluid Ounces to Milliliters Conversion Table				
0.5 fl oz	1 fl oz	2 fl oz	3 fl oz	4 fl oz
15 mL	30 mL	60 mL	90 mL	120 mL

**Specific Diseases, Rates and Application Timing**

Disease	GF-1948		Application Interval	Specific Use Instructions
	(fl oz/1000 sq ft)	(fl oz/acre)		
<b>Turfgrass</b>				
anthracnose ( <i>Colletotricum graminicola</i> )	1 - 2	44 - 88	14 - 28 days	Apply when conditions are favorable for disease development. When disease pressure is high, use a higher rate and shorter interval. For broad spectrum control, tank mix with a registered contact fungicide at the label rate.  If disease is present, mix 2 fl oz of GF-1948 per 1000 sq ft with the label rate of the above-mentioned contact fungicides.
brown patch ( <i>Rhizoctonia solani</i> )	1 - 2	44 - 88	14 - 21 days	Begin application in May or June before disease is present. Tank mix with the label rate of a contact fungicide registered for control of brown patch.  Under conditions of high temperature and humidity, use a higher rate and shorter interval.
dollar spot ( <i>Sclerotinia homeocarpa</i> )	0.5	22	7 days	Apply when conditions are favorable for disease development.
			14 days	Tank mix with low label rate of one of the following contact fungicides: Daconil Ultrex, Chipco 26019.
	1	44	21 - 28 days	Tank mix with the low label rate of one of the following contact fungicides: Daconil Ultrex, Chipco 26019.
	1 - 2	44 - 88	14 - 28 days	If using the 1 - 2 fl oz/1000 sq ft rate without tank mixing, make no more than 3 consecutive applications for control of dollar spot before rotating to an alternate EPA-registered fungicide having a different mode of action.

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fusarium patch ( <i>Fusarium nivale</i> )	2 - 4	88 - 176	fall - early spring	Apply when conditions are favorable for disease development.
gray leaf spot ( <i>Pyricularia grisea</i> )	1 - 2	44 - 88	14 days	Apply when conditions are favorable for disease development. If using the 1 fl oz/1000 sq ft rate, tank mix with a registered contact fungicide at the label rate.
melting out, leaf spot ( <i>Bipolaris</i> spp.), ( <i>Drechslera</i> spp.)	1 - 2	44 - 88	14 days	Under light to moderate pressure, apply GF-1948 to reduce the severity of leaf spot and melting out caused by <i>Helminthosporium</i> -type pathogens.  For broad spectrum disease control, tank mix the 1 fl oz/1000 sq ft rate with a registered contact fungicide at the label rate.
necrotic ring spot ( <i>Leptosphaeria korrae</i> )	4	176	fall or spring	Apply in fall and/or the early spring depending upon local recommendations.
powdery mildew ( <i>Erysiphe graminis</i> ) rust ( <i>Puccinia graminis</i> )	1 - 2	44 - 88	14 - 28 days	Apply when conditions are favorable for disease development. If disease is present, use 2 fl oz of GF-1948 per 1000 sq ft.
red thread ( <i>Laetisaria fuciformis</i> ) pink patch ( <i>Limonomyces roseipellis</i> )	2	88	14 - 21 days	Apply when conditions are favorable for disease development.
snow mold gray ( <i>Typhula</i> spp.) pink ( <i>Microdochium nivale</i> )	2 - 4	88 - 176	late fall	Make 1 application in the late fall before snow cover. Do not apply on top of snow. For optimum disease control, 2 - 3 fl oz/1000 sq ft should be tank mixed with either PCNB or chlorothalonil at label rates.
spring dead spot ( <i>Leptosphaeria korrae</i> ), ( <i>Leptosphaeria narmari</i> ), ( <i>Ophiosphaerella herpotricha</i> ), ( <i>Gaeumannomyces graminis</i> )	4	176	30 days	Make 1 to 3 applications. If a single application is made, apply in September or October. For multiple applications, begin sprays in August.
stripe smut ( <i>Ustilago striiformis</i> ), ( <i>Urocystis agropyri</i> )	1 - 2	44 - 88	fall or spring	Apply once in the fall after turfgrass becomes dormant or in the early spring before turfgrass starts to grow.
summer patch	2	88	14 days	Apply GF-1948 beginning in April. Use the 2 fl oz/1000 sq ft rate on
poa patch	4	176	28 days	



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( <i>Magnaporthe poae</i> )				a 14-day schedule or the 4 fl oz/1000 sq ft rate on a 28-day schedule.
take-all patch ( <i>Gaeumannomyces graminis</i> )	2 - 4	88 - 176	spring and fall	Apply GF-1948 to reduce the severity of take-all patch. Make 1 or 2 fall applications in September and October or when night temperatures drop below 55°F, and 1 or 2 applications in April and May, depending upon local recommendations.
yellow patch ( <i>Rhizoctonia cerealis</i> )	3 - 4	130 - 176	late fall	Make 1 application in the late fall before snow cover. Do not apply on top of snow. If using the 3 fl oz/1000 sq ft rate, tank mix with a registered contact fungicide at the label rate.
zoysia patch, large patch of zoysia ( <i>Rhizoctonia solani</i> )	3 - 4	130 - 176	early fall	Make 1 application in the early fall (mid-September to mid-October) prior to development of disease symptoms. Consult local turfgrass extension experts to determine the optimum application timing for your area.
<b>Dichondra</b>				
dichondra rust ( <i>Puccinia dichondrae</i> )	2	88	14 - 21 days	Apply when conditions are favorable for disease development.

#### Establishment of Cool Season Turfgrass

GF-1948 provides control of many turfgrass diseases; its primary use is as a fungicide for use against the diseases listed on this label. As an additional benefit, GF-1948 improves the rate of establishment when it is applied to cool season turfgrass seedlings or sod.

**New Seedlings:** Apply 1 fl oz per 1000 sq ft at the 2 to 3 leaf stage of growth for faster root development and top growth.

**Sod:** Apply 1 oz per 1000 sq ft 2 to 6 weeks before cutting for increased sod knitting and faster establishment after laying.

#### Ornamentals and Non-Bearing Fruit and Nut Trees in Nurseries (Field) and Landscape Plantings

- Use GF-1948 in a preventative disease control program. To determine the use directions for controlling a disease on an ornamental plant species, select the plant species in Table 1. The number(s) in parentheses following the listed plant species refers to the disease(s) controlled in Table 2. Find the disease in Table 2. The letter in brackets following the disease refers to the application regime in Table 3.
- Allow spray to dry before applying overhead irrigation.
- Optimum benefit of GF-1948 is obtained when used in conjunction with sound disease management practices.

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GF-1948 may be used at rates of 6 to 8 fl oz per 100 gallons of water for disease control in ornamentals (see Tables 1, 2 and 3). For general disease control in landscape plantings, apply 6 to 8 fl oz per 100 gallons of water every 21 days. For best control, begin applications before disease development.

**Note:** For outdoor uses, up to 5.4 gallons of GF-1948 may be applied per acre per crop per year.

Plant tolerances to GF-1948 have been found acceptable for the specific genera and species of plants listed under the Directions for Use. In addition, crop tolerance to GF-1948 has been demonstrated at a rate of 6 to 8 fl oz per 100 gallons of water on the following ornamental plants: ajuga, Bartlett pear, bayberry, camellia, candy tuft, cotoneaster, elm, English ivy, euonymus, German statice, holly, hollyhock, impatiens, linden, liriopse, magnolia, maples; peony, privet, raphiolepis, redbud, sweetgum, sycamore, tulip tree, vinca, and wax myrtle. Other plant species may be injured by applying GF-1948 and diseases other than those listed may not be controlled. Before using GF-1948 on plants or diseases that are not listed in the Directions for Use, first test GF-1948 on a small scale basis. Do not apply GF-1948 to African violets, begonias, Boston fern, or geraniums. Apply the recommended rates for a particular disease, i.e., rust, powdery mildew, etc., and evaluate for phytotoxicity and disease control prior to large-scale use.

**Table 1. Ornamental Plant Species**

Number in parentheses (-) refer to diseases controlled in Table 2.

Herbaceous Ornamental	Woody Ornamental	Non-Bearing Fruit and Nut Trees (Nursery and Landscape Plantings)
calendula (4a) carnation (5f) chrysanthemum (2a) delphinium (4a) gomphrena (3a) liis (5d) marigold (3a) monarda (4c) phlox (4c) snapdragon (5d) sweet william (3k) ( <i>Dianthus barbatus</i> ) zinnia (4c)	amelanchier (4d) ash (4c) azalea (2c, 4b) crabapple (3c, 3q, 4c, 5a) crape myrtle (4a) dogwood (3h, 4c) douglas fir (5b) hawthorn (5a) juniper (1a) lilac (4c) oaks (3p) pines (1b, 1c) poplars (5b) pyracantha (3o) red tip photinia (3i) rhododendron (2c, 3n) roses (3g, 4c, 5c) (outdoor use only) shasta fir (5c)	apple (3q, 4d, 5a) cherry (2b, 3d) citrus (3m) nectarine (2b) peach (2b) pecan (3b, 3c, 3f, 3l, 3n, 4c) plum (2b) walnut (3j)

**Table 2. Plant Diseases**

Letters in brackets [-] refer to application regimes in Table 3.

1. Conifer Blights
  - a. *Phomopsis juniperovora* (phomopsis blight) [B]
  - b. *Sirococcus strobolinus* (tip blight) [D]
  - c. *Sphaeropsis sapinea* (diplodia tip blight) [B]
  
2. Flower Blight
  - a. *Ascochyta chrysanthemi* (ray blight) [C]
  - b. *Monilinia* spp. [A]

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- c. *Ovulinia* spp. [B]
3. Leaf Blights/Spots
    - a. *Alternaria* spp. [B]
    - b. *Cercospora* spp. (brown leaf spot) [C]
    - c. *Cladosporium* spp. (scab) [C]
    - d. *Coccomyces hiemalis* [A]
    - e. *Collectrochum* spp. [B]
    - f. *Cristulariella* spp. (zonate leaf spot) [C]
    - g. *Diplocarpon rosae* (blackspot) [B]
    - h. *Discula* spp. (anthracnose) [A]
    - i. *Fabraea maculata* (syn. *Entomosporium maculata*) [B]
    - j. *Gnomonia leptostyla* (anthracnose) [C]
    - k. *Heterosporium echinulatum* [B]
    - l. *Mycosphaerella caryigena* (downy spot) [C]
    - m. *Mycosphaerella fructicola* (greasy spot) [E]
    - n. *Septoria* spp. (leaf scorch) [C]
    - o. *Spilocaea pyracanthae* [B]
    - p. *Tubakia dryina* [D]
    - q. *Venturia inaequalis* (scab) [A]
  4. Powdery Mildew
    - a. *Erysiphe* spp. [B]
    - b. *Microsphaera* spp. [C]
    - c. *Oidium* spp. [B]
    - d. *Podosphaera* spp. [B]
    - e. *Sphaerotheca pannosa* [B]
  5. Rust
    - a. *Gymnosporangium juniperi-virginianae* [A]
    - b. *Melampsora occidentalis* [D]
    - c. *Phragmidium* spp. [B]
    - d. *Puccinia* spp. [B]
    - e. *Pucciniastrum goeppertianum* [D]
    - f. *Uromyces dianthi* [B]

### Table 3. Application Regimes

- [A] Mix 2 to 4 fl oz of GF-1948 in 100 gallons of water and apply as a full coverage spray to the point of drip. Make repeat applications every 14 to 21 days during the period of primary infection. If disease is present, tank mix with an EPA-registered contact fungicide. For **flower blight**, apply GF-1948 when there is 5 to 10% bloom and again at 70 to 100% bloom. For **dogwoods**, apply the 2 to 4 fl oz rate every 14 days, or apply 8 fl oz GF-1948 every 28 days.
- [B] Mix 5.8 fl oz of GF-1948 in 100 gallons of water and apply as a full coverage spray to the point of drip. Apply as needed, beginning when conditions are favorable for disease development. For **blackspot**, apply in tank mix with a registered contact fungicide labeled for blackspot. For **calendula**, apply every 30 days. For **diplodia tip blight**, make a total of 3 applications every 14 days prior to the major period of infection. For **juniper phomopsis blight**, make an initial application as soon as junipers start to grow and repeat the application every 14 to 21 days during the period of active growth.
- [C] Mix 8 to 12 fl oz of GF-1948 in 100 gallons of water and apply as a full coverage spray to the point of drip. Apply every 30 days, beginning when conditions are favorable for disease development. For **pecans**, apply the 12 fl oz rate. Beginning at budbreak, make a total of 3 applications 14 days apart.

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For **walnuts**, apply 8.5 fl oz every 14 to 21 days. For **ray blight**, apply 12 fl oz every 7 days or 20 fl oz every 14 days.

[D] Mix 16 fl oz of GF-1948 in 100 gallons of water and apply as a full coverage spray to the point of drip. Apply every 14 to 28 days beginning when conditions are favorable for disease development. For **douglas fir needle rust**, apply once in May. For **tip blight**, make an initial application in mid- to late winter and 2 additional applications at 2-month intervals.

[E] Mix 20 to 24 fl oz of GF-1948 in 100 gallons of water and apply as a full coverage spray to the point of drip. Apply within the June to August time period.

**Note:** To avoid possible illegal residues, do not apply to apple, cherry, citrus, nectarine, peach, pecan, plum, or walnut trees that will bear harvestable fruit within 12 months.

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