

#### OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 11, 2024

Christine May Regulatory Product Manager Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, NC 27419

Subject: Label Amendment – Adding packaging-related language and Alternate Brand

Names

Product Name: Ridomil Gold GR EPA Registration Number: 100-798 Application Date: 04/18/2023

Case Number: 478812

#### Dear Christine May:

The amended label 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 conditions that were previously imposed on this registration. You continue to be subject to existing 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 copy of the final printed labeling before you release the 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.

The alternate brand names, "Ridomil Gold® GR SMARTBOX® Fungicide" and "Ridomil Gold® GR SMARTCARTRIDGE® Fungicide" have been added to the product record.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of

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statements 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 Agency find or if it is brought to our attention that a website contains false 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.

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

If you have any questions, please contact Senedu Alemu at Alemu.Senedu@epa.gov.

Sincerely,

Stephanie Suarez, Ph.D.
Acting Product Manager 21
Fungicide Branch
Registration Division (7505T)
Office of Pesticide Programs

Enclosure

# MEFENOXAM GROUP 4 FUNGICIDE

#### Ridomil Gold® GR

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[ABN: Ridomil Gold® GR SMARTBOX® Fungicide]

[ABN: Ridomil Gold® GR SMARTCARTRIDGE® Fungicide]

# ACCEPTED

01/11/2024

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 100-798

For control of Phytophthora and Pythium diseases of avocados, citrus, cotton, cranberries, ginseng, leafy vegetables, nonbearing deciduous fruits and nuts, peanuts, raspberries, soybeans, spinach, sugar beets, and tomatoes

Active Ingredient:	
Mefenoxam*	2.50%
Other Ingredients:	97.50%
Total:	100.00%

Ridomil Gold® GR is a granular (GR) formulation containing 2.5 pounds of active ingredient mefenoxam per 100 pounds of fungicide.

#### KEEP OUT OF REACH OF CHILDREN.

#### **CAUTION**

See additional precautionary statements and directions for use on bag.
EPA Reg. No. 100-798
EPA Est.
Product of Formulated in

SCP 798 MAS	
pounds Net Contents	
[Batch Code:	1 (For nonrefillables only.

<sup>\*</sup>CAS No. 70630-17-0 and 69516-34-3

FIRST AID			
If on skin or	Take off contaminated clothing.		
clothing	Rinse skin immediately with plenty of water for 15-20 minutes.		
	Call a poison control center or doctor for treatment advice.		
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 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.		
•	uct container or label with you when calling a poison control center or g for treatment.		

## HOTLINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

#### **CAUTION**

Causes moderate eye irritation. Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. 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 (PPE)**

## Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, or Viton™ ≥ 14 mils
- Shoes plus socks

## **User Safety Requirements**

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

## **Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

## **SMARTBOX Information** [SMARTBOX ONLY]

This product is formulated into a SMARTBOX system that meets the definition of a closed loading system as defined by the Worker Protection Standard for Agricultural Pesticides.

## **SMARTCARTRIDGE Information** [SMARTCARTRIDGE ONLY]

This product is formulated into a SMARTCARTRIDGE system that meets the definition of a closed loading system as defined by the Worker Protection Standard for Agricultural Pesticides.

## **User Safety Recommendations**

#### Users 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**

**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.

## **Groundwater Advisory**

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

#### **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

# FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL OR CROP INJURY.

**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 (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 (WPS).

**DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.** Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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, including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks

#### PRODUCT INFORMATION

Ridomil Gold GR is a systemic fungicide which provides control of certain diseases caused by members of the Oomycete class of fungi on selected crops.

**DO NOT** use in nurseries, turf, or landscape plantings, unless specified in this label.

THIS LABEL IS FOR FIELD USE ONLY AND IS NOT PERMITTED FOR USE ON TRANSPLANT TRAYS, GREENHOUSES, LATH HOUSES, FLOAT HOUSES, HYDROPONIC PRODUCTION, OR IN BEDDING PLANT STRUCTURES.

## **Resistance Management**

MEFENOXAM GROUP 4 FUNGICIDE

Ridomil Gold GR contains a Group 4 class fungicide with a site specific mode of action through inhibition of a fungal RNA polymerase I. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product must conform to resistance management strategies established for the crop and use area. Consult your local or state agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or mixing with products having different modes of action or limiting the total number of applications per season. Syngenta encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label. Ridomil Gold GR must not be alternated with any fungicide to which resistance has already developed.

Any fungal population may contain individuals naturally resistant to Ridomil Gold GR and other Group 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies must be followed.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of Ridomil Gold GR or other Group 4 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with a fungicide from a different group that is equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.

- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM guidance for specific crop and pathogens.
- For information or to report suspected resistance contact Syngenta at 1-866-Syngent(a) (866-796-4368). You can also contact your pesticide distributor or university extension specialist to report resistance.

Maximum usage when applying both mefenoxam- and metalaxyl-containing products to the same crop within the same season: **DO NOT** apply more than the maximum yearly total for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.

Calculate the amount of Ridomil Gold GR needed for band treatment by the formula:

band width in inches	Χ	broadcast rate	=	amount needed
row spacing in inches		per acre		per acre of field

## APPLICATOR SETTINGS

It is important that the user calibrate each individual granular applicator before its use. The settings in the chart in the **Soybeans** section of the label MUST ONLY BE USED AS A STARTING POINT. Even after calibration, it is best to check the actual application rate under your operating conditions. Application rates can vary due to changing moisture conditions, equipment wear, and normal variation in product with density and particle size distribution.

**Calibration:** To calibrate a granular applicator, follow the procedure as outlined below:

- 1. Fill the hopper with Ridomil Gold GR.
- 2. Attach a plastic bag to the spout opening.
- 3. Refer to the appropriate chart in the **Soybeans** section of this label and adjust the setting on the applicator to match the desired rate per acre. The settings in the chart in the **Soybeans** section of the label MUST ONLY BE USED AS A STARTING POINT.
- 4. Measure off 1,000 linear ft and drive at the speed selected.

- 5. Weigh or measure the volume of each bag, change settings as needed to obtain the desired rate and repeat steps 2-5 until the setting delivers the correct number of ounces per 1,000 ft.
- 6. Repeat steps 1-5 for each applicator box.

#### Conversions:

1. Time to cover 1,000 ft at:

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4 mph = 2 min. 50 sec.
5 mph = 2 min. 16 sec.
6 mph = 1 min. 57 sec.
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2. Ounces (wt) of granules to **approximate** ounces (volume):

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6 \text{ oz wt} = 8 \text{ fl oz } (1 \text{ level cup})
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When calibrating granular applicators, follow the directions below:

- 1. To reduce granule flow variability, adjust orifice openings by moving the controls in one direction only, including from the closed position to open.
- 2. Granule flow through an orifice is not always proportional to ground speed, so make calibration checks at the same speed you plant at and maintain that ground speed as constant as possible when planting.
- 3. Granular pesticide products vary considerably in size, density and particle shape, so recalibrate applicators whenever you change brands and/or formulations. The same brand can even change from year to year.
- 4. Changing humidity and temperature during the day can change the flow rate of granules through the applicator's orifice. Recalibrate when conditions change and periodically readjust orifice settings to compensate.
- 5. Know the application rate. For banded applications, the area is the actual area covered by the band, not total cropland area planted. Some row-crop specified rates are based on treating in-the-row and these rates are specified as amounts (ounces) of granules per certain row length (often 1,000 ft). Others express rates as amount per treated acre which means the total area treated with the pesticide. If rates are expressed as amount per treated acre and banded applications are used, the amount of pesticide used per acre will be proportionately less. The formula above can be used to calculate the amount of Ridomil Gold GR needed per acre of crop when banded applications are made.

6. Calibrate frequently using one of several acceptable calibration methods. Complete the material collection phase under field conditions.

## **Application Equipment**

## **SMARTBOX Information** [SMARTBOX ONLY]

- Please refer to the SMARTBOX manual for information on system operation and calibration.
- DO NOT attempt to open or tamper with the container.
- DO NOT attempt to repair the SMARTBOX application system. If repairs are necessary, contact your sales representative or the manufacturer of the application system.

## **SMARTCARTRIDGE Information** [SMARTCARTRIDGE ONLY]

- Please refer to the SMARTCARTRIDGE operator's manual for detailed information on system operation and calibration procedures for systems capable of using the SMARTCARTRIDGE container.
- **DO NOT** attempt to open or tamper with the container.
- **DO NOT** attempt to repair the SMARTCARTRIDGE application system. If repairs are necessary, contact your sales representative or the manufacturer of the application system.

#### **Pre-harvest Intervals**

Unless otherwise stated in the directions for use for a specific crop, there is no preharvest interval for Ridomil Gold GR.

#### **AVOCADOS**

Ridomil Gold GR is a systemic fungicide which provides control of avocado root rot caused by *Phytophthora cinnamomi*. For best results, Ridomil Gold GR must be used before or as soon as early symptoms of disease appear. For new plantings, the use of Phytophthora-resistant root stocks with Ridomil Gold GR is advised. Mature trees in advanced stages of decline cannot be cured with Ridomil Gold GR. Applications are not needed during the winter months of November through February.

**Sprinkler-Irrigated Orchards:** Apply  $\frac{3}{4}$ – $1\frac{1}{2}$  oz (0.001-0.002 lb ai) of product/sq yd evenly to the soil surface under the canopy of the tree. The following table shows the amount of Ridomil Gold GR to use based on the diameter of the tree canopy. Start applications at the beginning of the growing season or at transplanting and make up to 2 additional applications at 3-month intervals.

**Drip-Irrigated Orchards:** Place the specified amount of Ridomil Gold GR (see following table) on the soil surface directly around the drip emitter at each tree. If there is more than one emitter per tree, distribute the total amount of Ridomil Gold GR among the emitters. Start applications at the beginning of the growing season or at transplanting and make 2 additional applications at 3-month intervals.

Diameter of Tree Canopy in Ft	Amount of Ridomil Gold GR Per Tree	
5	1½−3 oz	
10	6-12 oz	
15 or wider	14-28 oz	

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 80 lb/A (2.0 lb ai/A)
- 2. Maximum Number of Applications: 3
- 3. Minimum Application Interval: 90 days
- 4. **Maximum Annual Application Rate:** 240 lb/A/year (6.0 lb ai/A/year mefenoxam)
  - a. DO NOT exceed 6.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. Pre-Harvest Interval (PHI): 28 days

#### **CITRUS**

Includes grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats, satsuma mandarin, and hybrids of these.

Use Ridomil Gold GR on citrus to control citrus foot rot, root rot, and trunk canker caused by *Phytophthora* spp. Apply to the soil as a broadcast application under the canopy of the trees. See sections below for use rate depending upon phase of

production. If rain is not expected within 3 days of application, water in with  $\frac{1}{2}$ -1 inch of irrigation. For banded applications, use the formula in the **Product Information** section for calculating the amount of Ridomil Gold GR needed per acre of trees. If the trees are on a drip irrigation system, distribute the amount of Ridomil Gold GR needed per tree (see table) to the soil surface in the immediate vicinity of the drip emitter(s) at each tree. If there is more than one emitter at each tree, distribute the total amount of Ridomil Gold GR needed among the emitters.

**Application Instructions:** (1) Where nematodes are a problem, best results can be achieved if effective EPA-registered nematicides are used. Nematicides can be used in combination or in sequence with Ridomil Gold GR applications. (2) **DO NOT** apply Ridomil Gold GR and residual herbicides simultaneously to citrus trees less than 3 years old. Allow 4 weeks between applications of Ridomil Gold GR and residual herbicides on trees less than 3 years old.

Precaution: For best Phytophthora control, a combination of cultural practices and resistant varieties is advised. The use of Ridomil Gold GR is not advised in FL for use on the highly susceptible sweet orange rootstock.

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 80 lb/A (2.0 lb ai/A)
- 2. Maximum Number of Applications: 3
- 3. Minimum Application Interval: 90 days
- 4. **Maximum Annual Application Rate:** 240 lb/A/year (6.0 lb ai/A/year mefenoxam)
  - a. **DO NOT** exceed 6.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. Pre-Harvest Interval (PHI): NA

#### Citrus in Nurseries

Make the first application of Ridomil Gold GR at the time of planting and up to 2 additional applications at 3-month intervals during the period when trees are actively growing. Apply 40-80 lb (1.0-2.0 lb ai) of product per treated acre as a broadcast or banded application to the seedbeds, liners, or bedded stock. For banded applications, use a band wide enough to cover the root systems of the plants.

- 1. Maximum Single Application Rate: 80 lb/A (2.0 lb ai/A)
- 2. Maximum Number of Applications: 3
- 3. Minimum Application Interval: 90 days
- 4. **Maximum Annual Application Rate:** 240 lb/A/year (6.0 lb ai/A/year mefenoxam)
  - a. **DO NOT** exceed 6.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. **DO NOT** use Ridomil Gold GR in greenhouse nurseries.
- 6. Pre-Harvest Interval (PHI): NA

## **Citrus Resets or New Plantings**

Make the first application of Ridomil Gold GR to citrus resets or new plantings at the time of transplanting. Make up to 2 additional applications at 3-month intervals to coincide with root growth flushes during the growing season. Apply as a broadcast or banded application. For banded applications, use a band wide enough to cover the root systems of the plants.

**Water Ring Treatment:** Uniformly spread 1-1½ oz (0.0016-0.0023 lb ai) of product within the watering ring, then drench with 5 gallons water per tree.

**Soil Surface Treatment:** Apply 40-80 lb (1.0-2.0 lb ai) of product per treated acre (15-30 oz (0.023-0.047 lb ai) product/1,000 sq ft) under the canopy of the trees. If natural rainfall is not expected within 3 days, lightly irrigate with 1/2-1 inch of water.

## **Established Plantings**

**Soil Surface Applications:** Apply 40-80 lb (1.0-2.0 lb ai) of product per treated acre (15-30 oz (0.023-0.047 lb ai) product/1,000 sq ft) as a soil surface treatment under the canopy of the trees. Up to 2 additional applications may be made per year at 3-month intervals. Use the following table to determine the proper rate based on tree size. Immediately after application, irrigate with  $\frac{1}{2}$ -1 inch of water.

Diameter of Tree Canopy in Ft	Amount of Ridomil Gold GR Per Tree
5	½-½ oz
10	11⁄4–2 ½ oz
15	2½-5 oz
20	5-10 oz

- 1. Maximum Single Application Rate: 80 lb/A (2.0 lb ai/A)
- 2. Maximum Number of Applications: 3
- 3. Minimum Application Interval: 90 days
- 4. Maximum Annual Application Rate: 240 lb/A/year (6.0 lb ai/A/year mefenoxam)
  - a. **DO NOT** exceed 6.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. **DO NOT** use Ridomil Gold GR in greenhouse nurseries.
- 6. Pre-Harvest Interval (PHI): NA

#### COTTON

Ridomil Gold GR provides control of seed rot and seedling diseases of cotton caused by *Pythium* spp. It does not control seedling diseases caused by other fungi.

## Seed Rots and Seedling Diseases of Cotton Caused by Pythium spp.

Apply  $1\frac{1}{4}$ – $2\frac{1}{2}$  lb (0.03-0.06 lb ai) of product/13,000 linear ft of row ( $1\frac{1}{2}$ –3 oz (0.002-0.005 lb ai) product/1,000 linear ft) as an in-furrow application at the time of planting. Mount the application tubes so the granules are mixed with the soil covering the seeds.

For broader spectrum disease control, Ridomil Gold GR can be applied with azoxystrobin as an in-furrow application.

#### **USE RESTRICTIONS**

- 1. **Maximum Single Application Rate:** 3 oz/1000 row ft (0.005 lb ai); equivalent to 2.45 lb/A (0.06 lb ai/A) on a 40 inch row spacing
- 2. Maximum Number of Applications: 1
- 3. Minimum Application Interval: NA
- 4. **Maximum Annual Application Rate:** 2.45 lb/A/year (0.06 lb ai/A/year mefenoxam)
  - a. DO NOT exceed 0.125 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. Pre-Harvest Interval (PHI): NA

#### **CRANBERRIES**

Use Ridomil Gold GR as a soil application for control of Phytophthora root rot of cranberries caused by *Phytophthora* spp.

Apply Ridomil Gold GR by ground or air at 20-35 lb (0.50-0.88 lb ai) product/A as a broadcast soil application for control of Phytophthora root rot of cranberries. Three applications per crop season are advised. Make the first application in the fall after harvest. Make the second application in the spring, followed by a third application 45 days before harvest.

- 1. Maximum Single Application Rate: 35 lb/A (0.88 lb ai/A)
- 2. Maximum Number of Applications: 3
- 3. Minimum Application Interval: 90 days
- 4. Maximum Annual Application Rate: 105 lb/A/year (2.65 lb ai/A/year mefenoxam)
  - a. DO NOT exceed 3.6 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. **Pre-Harvest Interval (PHI):** 45 days

## **DECIDUOUS FRUITS AND NUTS IN ORCHARDS (NONBEARING)\***

\*(Apple, Avocado, Fruit Stone Crop Group 12, and Sugar Apple)

## **Phytophthora Diseases**

Use of Ridomil Gold GR will aid in the control of crown, collar, and root rot of deciduous fruit and nut trees caused by *Phytophthora* spp. when used in conjunction with good cultural practices and rootstocks that are most tolerant to the disease. Ridomil Gold GR applications must be made before symptoms appear, especially in areas favorable for disease development. Ridomil Gold GR will not revitalize trees showing moderate to severe disease symptoms.

Make the first application at the time of planting. (See **Use Restrictions** below.) Up to 2 additional applications must be made at 2 to 3-month intervals during the time when conditions are favorable for disease development. For established plantings, make the first application in the spring before growth starts.

Apply 40-80 lb (1.0-2.0 lb ai) product per treated acre (15-30 oz (0.023-0.047 lb ai) product/1,000 sq ft) as a soil surface treatment under the canopy of the trees. For banded applications, use the formula in the **Product Information** section for calculating the amount of Ridomil Gold GR needed per acre of trees. If rain is not expected within 3 days of application, water in with  $\frac{1}{2}$  -1 inch of irrigation. Soil surface applications of Ridomil Gold GR will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.

**Application Instructions:** (1) To avoid injury, **DO NOT** treat the roots directly or concentrate the granules around the tree trunks. (2) **DO NOT** apply to trees under stress. (3) For intensive plantings (2-3 times the normal planting rate) make applications on a per area basis, i.e., per acre or 1,000 sq ft. **DO NOT** calculate the amount of Ridomil Gold GR on a per tree basis.

- 1. Maximum Single Application Rate: 80 lb/A (2.0 lb ai/A)
- 2. Maximum Number of Applications: 3
- 3. Minimum Application Interval: 60 days
- 4. **Maximum Annual Application Rate:** 240 lb/A/year (6.0 lb ai/A/year mefenoxam)
  - a. **DO NOT** exceed 6.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. Unless labeled for bearing tree crops, **DO NOT** apply to plantings that will bear harvestable fruit within 12 months of the last application.
- 6. In CA, **DO NOT** apply Ridomil Gold GR to newly planted trees within 90 days of planting.
- 7. Pre-Harvest Interval (PHI): NA

#### **GINSENG**

Ridomil Gold GR applied to the soil before early spring growth followed by additional applications at monthly intervals will control Phytophthora root rot in ginseng caused by *Phytophthora cactorum*.

Apply Ridomil Gold GR at 15 lb (0.38 lb ai) product/A uniformly to the soil surface in the spring before the plants begin growing. Make up to 4 additional applications of Ridomil Gold GR at monthly intervals at 10 lb (0.25 lb ai) product/A.

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 15 lb/A (0.38 lb ai/A)
- 2. Maximum Number of Applications: 5
- 3. Minimum Application Interval: 30 days
- 4. **Maximum Annual Application Rate:** 55 lb/A/year (1.375 lb ai/A/year mefenoxam) a) **DO NOT** exceed 1.5 lb ai/A/year mefenoxam- and metalaxyl-containing products.
- **5.** If Ridomil Gold SL is applied to the soil before early spring growth, **DO NOT** apply more than 45 lb (1.13 lb ai) of Ridomil Gold GR as supplemental applications.
- 6. Pre-Harvest Interval (PHI): 9 days

## **LEAFY VEGETABLES\* (EXCLUDING SPINACH)**

\*Celery, gardencress, upland cress, endive, fennel, lettuce (head and leaf), parsley, rhubarb, and Swiss chard.

Ridomil Gold GR applied as a soil application will control damping-off in leafy vegetables caused by *Pythium* spp. Applications may be made banded over the row or preplant incorporated.

**Preplant Incorporated Application:** Apply 20-40 lb (0.5-1.0 lb ai) product per treated acre as a broadcast soil application and incorporate in the top 2 inches of soil. For banded applications, use a minimum of a 7-inch band. Use the formula in the **Product Information** section of this label to calculate the amount of Ridomil Gold GR needed per acre. When incorporated applications are made at the time of planting, position the drop tubes so the granules are mixed with the soil, covering the seed at a rate of 10-20 oz (0.016-0.031 lb ai) of granules per 1,000 linear feet of row. Avoid placing the granules directly in contact with the seed, or injury may occur.

**Surface Application:** Apply 20-40 lb (0.5-1.0 lb ai) product per treated acre uniformly to the soil surface at the time of planting. For banded applications, use a minimum of a 7-inch band. Use the formula in the **Product Information** section of this label to calculate the amount of Ridomil Gold GR needed per acre. If natural rainfall is not expected before the seeds start germinating, Ridomil Gold GR must be incorporated mechanically before planting or be moved into the seed zone after planting with 1/2-1 inch sprinkler irrigation.

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 40 lb/A (1.0 lb ai/A)
- 2. Maximum Number of Applications: 1
- 3. Minimum Application Interval: NA
- 4. Maximum Annual Application Rate: 40 lb/A/year (1.0 lb ai/A/year mefenoxam)
  - a. DO NOT exceed 1.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. **DO NOT** use Ridomil Gold GR for disease control in greenhouse- or field-grown vegetable bedding plants.
- 6. Pre-Harvest Interval (PHI): NA

#### **PEANUTS**

Ridomil Gold GR is a systemic fungicide for use in control of seedling and pod diseases of peanuts caused by *Pythium* spp.

**Seedling Diseases:** Apply 6.5 oz (0.01 lb ai) product/1,000 linear ft in-furrow or in a 7-inch band (5 lb (0.13 lb ai) product/A on 42-inch rows) at the time of planting. With infurrow applications, mount the application tubes so the granules are mixed with the soil covering the seed.

**Pod Rot:** Apply 13 oz (0.02 lb ai) product/1,000 linear ft of row in an 8 to 12-inch band (10 lb (0.25 lb ai) product/12,400 linear ft on 42-inch rows) over the rows at early pegging. For best results, an irrigation must follow the application.

**Application Instructions:** (1) **DO NOT** apply Ridomil Gold GR to wet foliage as foliar phytotoxicity and/or poor control may result. (2) Where pathogens other than *Pythium* spp. are present, use fungicides that control these diseases in combination with Ridomil Gold GR. (3) Fungicides including azoxystrobin may be used if the predominant pathogens are *Pythium* spp. and *Rhizoctonia* spp.

- 1. Maximum Single Application Rate: 10 lb/A (0.25 lb ai/A)
- 2. Maximum Number of Applications: 1
- 3. Minimum Application Interval: NA
- 4. Maximum Annual Application Rate: 10 lb/A/year (0.25 lb ai/A/year mefenoxam)
  - a. **DO NOT** exceed 0.25 lb ai/A/year mefenoxam- and metalaxyl-containing products.
- 5. Pre-Harvest Interval (PHI): NA

#### **RASPBERRIES**

Ridomil Gold GR is a systemic fungicide for use in the control of Phytophthora root rot.

Apply 2.5 - 5 lb (0.06-0.13 lb ai) product/1,000 ft of row to the soil surface in a 3-foot band over the row (36.25 - 72.5 lb (0.91-1.81 lb ai) product/A on a broadcast basis). Make one application in the spring and another application in the fall after harvest.

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 72.5 lb/A (1.81 lb ai/A)
- Maximum Number of Applications: 2
   Minimum Application Interval: 90 days
- 4. Maximum Annual Application Rate: 145 lb/A/year (3.6 lb ai/A/year mefenoxam)
  - DO NOT exceed 3.6 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. Pre-Harvest Interval (PHI): 45 days

#### **SOYBEANS**

Ridomil Gold GR is a systemic fungicide for use in the control of Phytophthora root and stem rot and Pythium damping-off. Ridomil Gold GR may be applied in a 7-inch band over the row at planting or in the seed furrow before the seeds are covered. The seed furrow application will provide more consistent results if rain is not expected before the seeds germinate.

For best results against Phytophthora root and stem rot, use Ridomil Gold GR with sovbean varieties that have some tolerance to the races of Phytophthora present in the field. The high rate of Ridomil Gold GR must be used in areas with a history of severe Phytophthora damage. Under severe late season Phytophthora pressure, Ridomil Gold GR may not provide complete control.

**Pythium and Phytophthora:** For full-season control apply 6 oz (0.009 lb ai) product/1,000 linear ft of row in a 7-inch band over the row or as a seed furrow application at the time of planting. For early- to mid-season control only, apply 1½-3 oz (0.002-0.005 lb ai) product/1,000 linear ft of row in the **seed furrow**. When making seed furrow applications, position the applicator tubes so the granules are mixed with the soil covering the seed or are applied in a "T-band." Use the following table to determine the amount of Ridomil Gold GR needed per acre based on the row spacing. Use the high rate in areas with a history of Phytophthora problems.

Application Rates Per Acre According to Row Spacing				
	Linear Ft of	Pounds of Ridomil Gold GR Needed Per Acre		
	Soybean Row	Use rate (oz product/linear feet)		
<b>Row Spacing</b>	Per Acre	1 1/2 oz	3 oz	6 oz
38 in.	13,756	1.33 lb	2.60 lb	5.15 lb
36 in.	14,520	1.40 lb	2.75 lb	5.50 lb
30 in.	17,424	1.67 lb	3.25 lb	6.50 lb
24 in.	21,780	2.00 lb	4.10 lb	8.16 lb
20 in.	26,136	2.50 lb	4.90 lb	9.80 lb

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 9.80 lb/A (0.25 lb ai/A)
- 2. Maximum Number of Applications: 1
- 3. Minimum Application Interval: NA
- 4. Maximum Annual Application Rate: 9.80 lb/A/year (0.25 lb ai/A/year mefenoxam)
  - a. **DO NOT** exceed 0.625 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. Pre-Harvest Interval (PHI): NA

#### **SPINACH**

Ridomil Gold GR applied as a soil application will control damping off in spinach caused by *Pythium* spp., white rust (*Albugo occidentalis*) and downy mildew. Applications may be made preplant incorporated or preemergence.

**Preplant Incorporated Application:** Apply 20-40 lb (0.5-1.0 lb ai) product per treated acre as a broadcast soil application and incorporate in the top 2 inches of soil. For banded applications, use a minimum 7-inch band. Use the formula in the **Product Information** section of this label to calculate the amount of Ridomil Gold GR needed per acre. When incorporated applications are made at the time of planting, position the drop tubes so the granules are mixed with the soil, covering the seed at a rate of 10-20 oz (0.016-0.031 lb ai) of granules per 1,000 linear ft of row. Avoid placing the granules directly in contact with the seed or injury may occur.

**Surface Application:** Apply 20-40 lb (0.5-1.0 lb ai) product per treated acre uniformly to the soil surface at the time of planting. For banded applications, use a minimum 7-inch band. Use the formula in the **Product Information** section of this label to calculate the amount of Ridomil Gold GR needed per acre. If natural rainfall is not expected before the seeds start germinating, Ridomil Gold GR must be incorporated mechanically before planting or be moved into the seed zone after planting with 1/2-1 inch sprinkler irrigation.

White Rust and Downy Mildew Control: Make the first application at the time of planting according to the above directions. Make up to 2 additional applications of 5 lb (0.13 lb ai) of Ridomil Gold GR per acre of crop as a side dress application. Make the first side dress application 21 days after planting or after the first cutting. One additional application may be made after the next cutting.

**Application Instructions:** White rust and downy mildew can only be controlled in a preventative disease control program that begins with an application of Ridomil Gold GR or Ridomil Gold SL to the soil at planting. If Ridomil Gold GR is not used at planting, **DO NOT** use Ridomil Gold GR at any other time throughout the season. **DO** NOT apply Ridomil Gold GR where rust or downy mildew infections are already established. The use of Ridomil Gold GR in curative applications greatly increases the risk of the fungus developing insensitivity to this active ingredient. The development of insensitivity will destroy the effectiveness of Ridomil Gold GR in controlling white rust.

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 40 lb/A (1.0 lb ai/A)
- Maximum Number of Applications: 3
   Minimum Application Interval: 21 days
- 4. Maximum Annual Application Rate: 50 lb/A/year (1.25 lb ai/A/year mefenoxam)
- 5. **DO NOT** exceed 1.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products at planting; which can be followed by either
  - a. No more than 0.25 lb ai/A/year of post-planting shanked-in applications of mefenoxam- and metalaxyl-containing products or
  - b. No more than 0.4 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing
- 6. **DO NOT** use Ridomil Gold GR for disease control in greenhouse- or field-grown vegetable bedding plants.
- 7. **Pre-Harvest Interval (PHI):** 21 days

#### **SUGAR BEETS**

Ridomil Gold GR is a systemic fungicide for use in the control of diseases caused by Pythium spp. Applications may be made preplant incorporated or as a surface application at planting.

**Preplant Incorporated Application:** Apply 20-40 lb (0.5-1.0 lb ai) product per treated acre as a broadcast soil application and incorporate into the top 2 inches of soil. For banded applications, use a minimum 7-inch band. Use the formula in the **Product** Information section of this label to calculate the amount of Ridomil Gold GR needed per acre.

**Surface Application:** Apply 20-40 lb (0.5-1.0 lb ai) product per treated acre at planting. For banded application, use a minimum 7-inch band. Use the formula in the **Product** Information section of this label to calculate the amount of Ridomil Gold GR needed

per acre. If natural rainfall is not expected before the seeds begin germinating, Ridomil Gold GR must be incorporated mechanically before planting or be moved into the seed zone after planting with 1/2-1 inch sprinkler irrigation.

#### **USE RESTRICTIONS**

- 1. Maximum Single Application Rate: 40 lb/A (1.0 lb ai/A)
- 2. Maximum Number of Applications: 1
- 3. Minimum Application Interval: NA
- 4. **Maximum Annual Application Rate:** 40 lb/A/year (1.0 lb ai/A/year mefenoxam)
  - a. **DO NOT** exceed 1.0 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products.
- 5. Pre-Harvest Interval (PHI): NA

#### **TOMATOES**

Soil applications of Ridomil Gold GR at planting will provide control of damping-off caused by *Pythium* spp. and soil applications applied 4-12 weeks before harvest under the vines will reduce fruit and root rot caused by *Pythium* spp. and *Phytophthora* spp.

**Damping-Off (***Pythium* **spp.):** Apply 20 lb (0.5 lb ai) product per treated acre uniformly over the surface of the soil at the time of planting. If natural rainfall is not expected before the seeds begin germinating, Ridomil Gold GR must be incorporated mechanically or watered-in with 1/2-1 inch sprinkler irrigation. For banded applications, use a minimum 7-inch band. Use the formula in the **Product Information** section of this label to calculate the amount of Ridomil Gold GR needed per acre.

Fruit and Root Rot (*Pythium* spp. and *Phytophthora* spp.): Additional applications can be made as soil surface applications under the vines to provide control of root and fruit rot. If only one application is planned, apply 20 lb (0.5 lb ai) per treated acre under the vines 4 weeks after the planting application to 4 weeks before harvest, depending on the expected occurrence of the diseases. If root and fruit rot is a problem throughout the growing season or the occurrence of diseases cannot be predicted, make 2 additional applications at 10 lb (0.25 lb ai) per treated acre under the vines, one 4-6 weeks after the planting application and another 4 weeks before harvest. If rainfall is not expected within 3 days of the application, follow as soon as possible with 1/2-1 inch overhead irrigation. Use the formula shown in the **Product Information** section to determine the amount of Ridomil Gold GR needed per acre.

Ridomil Gold GR can be shanked into the beds with fertilizer. For calculating the amount of Ridomil Gold GR needed per acre, apply the same amount as would be applied on a 7-inch band at 20 lb (0.5 lb ai) per treated acre. To obtain uniform disease control, Ridomil Gold GR must be mixed uniformly with the fertilizer.

- Maximum Single Application Rate: 20 lb/A (0.5 lb ai/A)
   Maximum Number of Applications: 3
- 3. Minimum Application Interval: 28 days
- Maximum Annual Application Rate: 40 lb/A/year (1.0 lb ai/A/year mefenoxam)
   a. DO NOT exceed 1.5 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products.
- 5. **DO NOT** use Ridomil Gold GR for disease control in greenhouse- or field-grown vegetable bedding plants.
- 6. Pre-Harvest Interval (PHI): 7 days

# **REPLANTING**

If replanting is necessary, additional applications of Ridomil Gold GR can be made, provided that the total amount of active ingredient in Ridomil Gold GR applied does not exceed the maximum specified on the product label for the particular crop.

# **ROTATION (PLANTBACK) RESTRICTIONS**

**DO NOT** plant any crop which is not registered for use with the Ridomil Gold GR active ingredient in soil treated with this active ingredient unless a shorter interval is specified on the following list.

Rotation Crop	Planting Time From Last Ridomil Gold GR Application (Days)
Alfalfa (including birdsfoot trefoil)	
Almonds	
Apples	
Asparagus	
Avocados	
Blueberries	
Broccoli	
Brussels Sprouts	
Cabbage	
Cauliflower	
Chinese Broccoli (gai lon, white flowering broccoli),	
Chinese Cabbage (tight-heading varieties only)	
Citrus	
Cotton	
Cranberries	O days
Cucurbit Vegetables	0 days
Corn	
Deciduous Fruits and Nuts*	
Eggplant	
Garlic	
Ginseng	
Grapes	
Hops	
Leafy vegetables (excluding Brassica)	
Legume vegetables (beans and peas - succulent and	
dried)	
Onions (dry bulb, green, and seed)	
Papaya	
Peanuts	
Peppers	

Pineapples Potatoes Raspberries Root and Tuber Vegetables Soybeans Spinach Stone fruits Strawberries Sugar Beets Tobacco Tomatoes Walnuts	
Wheat, Barley, Oats	360 days
Crops <b>not intended</b> for food or feed	0 days
All other crops intended for food or feed	360 days

<sup>\*</sup>These crops and other perennial crops may be planted immediately following last application of Ridomil Gold GR provided they will not bear harvestable fruit within 12 months.

#### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

## **Pesticide Storage**

Store in a dry place.

## **Pesticide Disposal**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## **Container Handling/Return** (SMARTBOX)

**Refillable container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. **DO NOT** DISCARD THE CONTAINER. **DO NOT** attempt to open or tamper with the container. Completely empty container into application equipment. All SMARTBOX containers must be returned per instructions provided or by calling 1-888-SMARTBOX.

## **Container Handling/Return (SMARTCARTRIDGE)**

**Refillable container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. **DO NOT** DISCARD THE CONTAINER. **DO NOT** attempt to open or tamper with the container. All SMARTCARTRIDGE containers must be returned to the retailer that the product was purchased from.

## **Container Handling (less than or equal to 50 pounds)**

Non-refillable container. DO NOT reuse or refill this container. Triple 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 ½ 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

## **Container Handling (bags)**

**Non-refillable 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 by other procedures approved by state and local authorities.

## **Container Handling (fiber drums with liners)**

**Non-refillable container. DO NOT** reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

For minor spills, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

### CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

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