

100-801

12/15/2003

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Larry Zang
Senior Regulatory Product Manager
Sygenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

DEC 15 2003

Subject: Ridomil Gold® EC
EPA Reg. No. 100-801
Amendment dated November 1, 2002
Label resubmitted August 6, 2003
Page 1 of label resubmitted December 11, 2003

Dear Mr. Zang:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

1. On page 20 in the first block under "Application Type" change "Soil spray (micro-sprinkler or band)" to "Soil spray (microsprinklers up to 6 inches off the ground, or band)"

One copy of the label stamped "Accepted with comments" is enclosed for your records. This label supercedes all labels previously accepted for this product. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

Mary Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505C)

Enclosure

2/09

Ridomil Gold® EC

Booklet

Ridomil Gold® EC

FUNGICIDE

For the control of certain diseases in various crops caused by the Oomycete class of fungi

Active Ingredients :

Mefenoxam (CAS No. 70630-17-0)	49.0%
Other Ingredients:	51.0%
Total:	100.0%

Contains 4 lbs. active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-801
EPA Est. 34704-MS-2

Product of Switzerland
Formulated in the USA

SCP 801

U. S. Standard Measure

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

DEC 15 2003
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
I hereby approve for the pesticide
labeled for use under EPA Reg. No.
100-801

FIRST AID	
If in eyes	<ul style="list-style-type: none">• 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 swallowed	<ul style="list-style-type: none">• Call poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none">• 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 inhaled	<ul style="list-style-type: none">• 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE 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 swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment (PPE)**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof materials such as polyethylene or poly vinyl chloride
- Shoes plus socks

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistant category selection chart.

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 Control Statements

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 170.240(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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Apply only as specified on this label. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Groundwater Advisory Statement

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

Physical or Chemical Hazards

Do not use or store near heat or open flame.

HAZARD STATEMENTS
PRECAUTIONS
FIRST AID
FURTHER INFORMATION
REGULATORY INFORMATION
ENVIRONMENTAL INFORMATION
OTHER INFORMATION

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 should 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, Inc. or Seller. All such risks shall be assumed by Buyer and User, and 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. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. 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 of 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.

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.

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. See Part 1 "Soil-Injected or Soil Incorporated Applications" under Crop Use Directions of this label.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. See Part 2 "Soil-Directed and other Foliar Uses" under Crop Use Directions of this label

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

- Coveralls
- 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 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.

Do not enter or allow others or pets to enter the treated area until sprays have dried.

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

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Do not use, pour, spill, or store near heat or open flame. Open dumping is prohibited.

Storage

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.

Pesticide Disposal

Pesticide wastes are acutely hazardous. 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.

Container Disposal (Pint, quart, gallons)

Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by alternatives allowed by state and local authorities.

FOR BULK AND MINIBULK CONTAINERS

CONTAINER DISPOSAL: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

CONTAINER PRECAUTIONS: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

REFILL ONLY WITH Ridomil Gold EC. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Ridomil Gold EC will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

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

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

GENERAL INFORMATION

Ridomil Gold EC is a systemic fungicide for use on selected crops to control certain diseases caused by members of the Oomycete class of fungi. Other fungicides must be used to control diseases incited by other classes of fungi.

ATTENTION

THIS PRODUCT IS NOT TO BE USED IN FOLIAR APPLICATIONS, UNLESS SPECIFIED ON THIS LABEL OR IN SOLUTIONS USED TO DIP PLANTS. DO NOT USE IN NURSERIES, TURF, OR LANDSCAPE PLANTINGS, UNLESS SPECIFIED IN THIS LABEL.

UNDER CONDITIONS CONDUCIVE TO EXTENDED INFECTION PERIODS, ADDITIONAL FUNGICIDE APPLICATIONS BEYOND THE NUMBER ALLOWED BY THIS LABEL MAY BE NEEDED. UNDER THESE CONDITIONS, USE ANOTHER FUNGICIDE REGISTERED FOR THE CROP/DISEASE APPEARING ON THIS LABEL.

Where rate ranges are specified on this label, use the higher rate when heavy disease pressure is expected and the lower rate when disease pressure is expected to be light, unless otherwise noted.

Conditions conducive to extension of infection periods include: (1) a cool and wet environment for Pythium seedling disease, (2) long growing seasons, (3) a cool and humid environment for downy mildew, and (4) use of susceptible varieties.

Instructions for Moving Ridomil Gold Into The Root or Seed Zone

To ensure maximum activity on soilborne pathogens, Ridomil Gold EC must be moved into the seed or root zone of the plant. Some crop directions recommend incorporating the fungicide to move it to the seed or root zone (preplant incorporated application, soil drenches, shank applications,) while others place the fungicide into the seed or root zone (in-furrow sprays, soil injections, crown dips). For applications made to the soil surface, rainfall will move the fungicide to the seed or root zone. However, if rainfall is not expected within 24 hours after application, mechanically incorporate (before planting) or sprinkler irrigate (after planting) with ½ -1 inch of water.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

RESISTANCE MANAGEMENT

Note: Ridomil Gold EC is a systemic fungicide having a specific mode of action and could be subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore, Syngenta cannot assume liability for crop damage resulting from insensitive strains of fungi. If treatment is not effective following the use of Ridomil Gold EC as recommended, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of a Ridomil Gold EC insensitive strain of fungi, neither Ridomil Gold EC nor any other fungicide with similar action will effectively control that disease. Consideration should then be given to the prompt use of other types of suitable fungicides. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance on your particular crop and disease control situation.

Do not make foliar applications to field grown tobacco or other crops unless specified, since this practice may encourage more rapid development of insensitivity.

THIS LABEL IS FOR FIELD USE ONLY UNLESS SPECIFIED OTHERWISE WITHIN A CROP SECTION OF THIS LABEL.

MIXING INSTRUCTIONS

Add ¼-½ of the required amount of water to the spray tank, add the proper amount of Ridomil Gold EC, then add the rest of the water. When tank mixing other products with Ridomil Gold EC, follow the proper sequence of adding products to the spray tank.

Wettable powders or water dispersible granules should be added to the water in the tank first, followed by flowable products, with emulsifiable concentrates, such as Ridomil Gold EC, added last. Provide sufficient mechanical or bypass agitation during mixing and application to maintain a uniform emulsion.

Ridomil Gold EC is usually compatible with Abound®, Admire®, Balan®, Bravo®, Dithane®, Enide®, Furadan®, Lorsban®, Manzate®, Mocap®, Platinum®, Quadris®, Terraclor®, and Tillam®.

To assure the compatibility of Ridomil Gold EC with these and other products, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for 5 minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

BEFORE TANK MIXING RIDOMIL GOLD EC WITH OTHER REGISTERED PRODUCTS FOR ANY USE ON THIS LABEL, READ THE LABEL OF THE TANK MIX PARTNER TO BE CERTAIN IT IS LABELED FOR USE ON THE PARTICULAR CROP AND THAT USE PATTERNS ARE COMPATIBLE WITH THOSE OF RIDOMIL GOLD EC.

APPLICATION INSTRUCTIONS

Apply Ridomil Gold EC by ground or air in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. Apply in a minimum of 20 gals./A for ground applications and 5 gals./A by air. Refer to the specific crop directions for use for application recommendations.

For banded applications, some row-crop recommendations are based on treating in-the-row, and these rates generally are specified as amounts (fl.oz.) of product per certain row length (often 1,000 row ft.) Other recommendations express rates as amount per acre, which refers to the total crop area to be treated. If rates are expressed as amount per acre and banded applications are used, then the correct amount of pesticide used per acre will be proportionately less because the area to be treated actually is the area covered by the band, not total cropland planted. Use the following formula to calculate the amount of Ridomil Gold EC needed per acre of crop when banded applications are made.

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

$$\frac{\text{band width in inches}}{\text{row spacing in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

Application Through Irrigation Systems

Ridomil Gold EC, alone or in combination with other pesticides which are registered for application through irrigation systems, may be applied through irrigation systems. Apply this product only through center pivot, solid set, hand move, moving wheel, micro-sprinkler, or drip irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Ridomil Gold EC must be applied on the schedule specified in the specific crop use recommendations, not according to the irrigation schedule.

With the exception of avocados and citrus, Ridomil Gold EC has not been sufficiently tested when applied through irrigation systems to assure consistent product performance for all labeled uses. The following calibration and application techniques are provided for user reference, **but do not constitute a warranty of fitness for application through sprinkler or drip irrigation equipment.** Users must check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler or drip irrigation equipment.

Note: Do not inject Ridomil Gold EC at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 15 parts water to 1 part Ridomil Gold EC in the mix tank. Ridomil Gold EC is corrosive to many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. Do not use Viton, Buna-N, Neoprene, or PVC seals.

General Operating Instructions For All Irrigation Systems

1. The system must contain a functional check-valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.

3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended.

Center Pivot Irrigation Equipment

Notes: (1) Use only with drive systems which provide uniform distribution. (2) Do not use end guns when chemigating Ridomil Gold EC through center pivot irrigation systems because of nonuniform application. (3) Plug the first nozzle closest to well head to protect water source.

1. Determine the size of the area to be treated.
2. Determine the time required to apply ¼ inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80-95% of the manufacturer's rated capacity.
3. Using water, determine the injection pump output when operated at normal line pressure.
4. Determine the amount of Ridomil Gold EC required to treat the area covered by the irrigation system.
5. Add the required amount of Ridomil Gold EC and sufficient water to meet the injection time requirements to the solution tank.
6. Make sure the system is fully charged with water before starting injection of the Ridomil Gold EC solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
7. Maintain constant solution tank agitation during the injection period.
8. Continue to operate the system until the Ridomil Gold EC solution has cleared the last sprinkler head.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20 to 30-minute time interval.
3. Determine the amount of Ridomil Gold EC required to treat the area covered by the irrigation system.
4. Add the required amount of Ridomil Gold EC into the same quantity of water used to calibrate the injection period.
5. Operate the system at the same pressure and time interval established during the calibration.
6. Inject Ridomil Gold EC at the beginning of the irrigation cycle in $\frac{1}{2}$ -1 inch of water or as a separate application to maximize the effectiveness of the fungicide. Do not apply in excess of 1 inch of water.
7. Stop injection equipment after treatment is completed. Continue to operate the system until the Ridomil Gold EC solution has cleared the last sprinkler head.

Micro Sprinkler or Drip Irrigation Systems

General Instructions

1. Each run of the irrigation system must be calibrated separately to determine the time it takes water to move through the system and to make sure all emitters in the system are putting out the same amount of water.
2. Only pressure injection or venturi equipment is recommended.
3. Determine the area to be treated in each irrigation run.
4. Measure the output of each of the emitters or drip tubes closest to and farthest from the injector site.
5. For calibration, substitute a concentrated detergent (such as Wisk) or a soluble fertilizer for the Ridomil Gold EC in the injector tank. The detergent will bubble as it leaves the emitters. The time period over which bubbles occur should be checked for both the closest and farthest emitters. If these times are not within 2 minutes of each other, adjust the dilution ratio and/or the injection rate.
6. If a soluble fertilizer is used, measure the time intervals with a salt bridge. If a drip system is being calibrated, substitute soluble fertilizer for the Ridomil Gold EC in the injector and measure the time intervals with a salt bridge.

Step-by-Step Instructions

1. Before starting to calibrate, operate the system until all the emitters are putting out at equal flow rates or until the system is operating at full pressure.
2. Make up an indicator solution of detergent or fertilizer, using the same ratio to be used when mixing Ridomil Gold EC.
3. Set the injector to apply the indicator solution at the injection rate to be used in the actual Ridomil Gold EC application.
4. Attach a 5-inch length of flexible tubing over the emitter closest to the injection point, another length over the emitter farthest away. Both emitters should be monitored to determine the time intervals that the indicator solutions are observed.
5. Begin injecting the indicator solution. Direct the flow from the tubes at the emitters into a small container. Begin timing when the indicator solution is first detected, stop timing when the indicator solutions are no longer detected.
6. If the period of detection of the indicator solution between the 2 emitters are within 2 minutes of each other, comparable coverage will be obtained. If they are not, make adjustments by increasing the dilution ratio, using more water per part of Ridomil Gold EC, or adjust the injector to a slower flow rate.
7. Once the system is calibrated, dilute the needed amount of Ridomil Gold EC with water in the mix tank using a minimum of 15 parts water to 1 part Ridomil Gold EC in the solution tank.
8. Do not begin to inject Ridomil Gold EC into the system until all emitters are producing equal flow rates, or until the system is at full pressure.
9. Inject the Ridomil Gold EC into the system at the beginning of the irrigation set in $\frac{1}{2}$ -1 inch of irrigation water. Do not apply in excess of 1 inch of water.

Crop Use Directions - PART 1

SOIL-INJECTED OR SOIL-INCORPORATED APPLICATIONS

ALFALFA (including birdsfoot trefoil)			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.) Root Rots (<i>Phytophthora</i> spp.)	0.25-0.5 pt./A (0.12-0.25)	Soil spray (broadcast)	Apply as a broadcast soil surface spray at planting. If alfalfa seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the 0.25 pt/A rate. Use the high rate where disease pressure is severe. Apply in a minimum of 20 gals. of water/A. <i>For additional applications see Alfalfa in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions</i>
<ul style="list-style-type: none"> • Move Ridomil Gold EC into the seed or root zone as described in the general information section of this label. • Do not feed green forage or cut hay for 60 days following application. 			

ARTICHOKE, Globe			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.) Root Rots (<i>Phytophthora</i> spp.)	1-2 pt./A (0.5-1.0)	Soil spray (broadcast)	Apply as a broadcast soil surface spray at planting. Use the high rate where disease pressure is severe.
<ul style="list-style-type: none">• Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.• Do not apply within 200 days of harvest (200-day PHI).			

AVOCADOS			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Root Rot (<i>Phytophthora cinnamomi</i>)	Diluted Mixture: 0.25 fl. oz. in 18 gals. water	Sleeve drench	At transplanting, drench the roots inside the sleeve with 1 qt of the diluted mixture per tree. Sleeve drench does not replace soil surface applications for long- term control of root rot. <i>For additional applications see Avocados in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions</i>
Root Rot (<i>Phytophthora cinnamomi</i>)	1-2 qts/A (1-2) or 0.5-1.0 fl.oz./1000 gals. water (3.9-7.8 ppm)	Injection (drip irrigation)	Inject Ridomil Gold EC into the irrigation water at the rates recommended. Begin applications at the start of the growing season or at transplanting. Two additional applications may be made at 3-month intervals. Applications are not needed during the winter months of November through February. Use the formula provided in the General Information section of this label to calculate the amount of Ridomil Gold EC needed per acre. <i>For additional applications see Avocados in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions</i>
<ul style="list-style-type: none"> • Begin injection application as soon as soil tests indicate the presence of <i>Phytophthora</i>. • For new plantings, use <i>Phytophthora</i> resistant rootstocks. Mature trees in moderate to advanced stages of decline cannot be cured with Ridomil Gold EC. • Do not apply within 28 days of harvest. • Do not apply more than 1 ½ gal (6 lbs. a.i.) total per acre per year for all application types on this label. 			

Carrots			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off Cavity Spot Root Dieback (<i>Pythium</i> spp.)	1-2 pt /A (0.5-1.0)	Pre-plant Incorporated (broadcast or band) Soil spray (broadcast or band)	<p>Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use sufficient water to provide uniform coverage of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.</p> <p>Apply in water or liquid fertilizer at planting or prior to emergence. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.</p> <p>For control of <i>Pythium</i> and <i>Rhizoctonia</i>, tankmix Ridomil Gold EC with Quadris at labeled rates. Observe the most restrictive precautions that appear on the labels of both products.</p> <p><i>For additional applications Carrots in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions</i></p>
<ul style="list-style-type: none"> • For banded applications, a 7-inch band is recommended. See <i>Application Instructions</i>. • <i>Pythium</i> spp and the diseases listed in this section can only be controlled in a preventative disease control program that begins with an application of Ridomil Gold EC to the soil at planting or pre-emergence. If Ridomil Gold EC is not used at planting or pre-emergence, DO NOT use Ridomil Gold EC at any other time throughout the growing season. Supplemental applications listed in Part 2 of this label are required for control of Cavity Spot and Root Dieback caused by <i>Pythium</i> spp. • Do not apply more than 2.8 pints (1.4 lbs ai) of Ridomil Gold EC per acre per crop per season for all application types on this label. • Do not use for disease control in greenhouse or field-grown vegetable bedding plants. • Move Ridomil Gold EC into the seed or root zone as described in the General Information Section of this label. 			

CITRUS Grapefruit, Lemon, Lime, Orange, Tangelo, Tangerine, Citrus Citron, Kumquat, Satsuma Mandarin, Calamandin, Pummelo, Citrus hybrids			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Citrus Foot Rot Root Rot Trunk Canker Brown Rot <i>(Phytophthora spp.)</i>	1-2 qt. /A (1.0-2.0)	Soil spray (micro-sprinkler or band)	<p>Citrus resets or new plantings: Make the first application at the time of planting. Apply to soil beneath the tree canopy or apply through irrigation water. Inject Ridomil Gold EC into the irrigation water at the rates recommended (see application instructions in the General Information section).</p> <p>For banded applications the band should be wide enough to cover the root systems of the plants. Ridomil Gold may be re-applied 2-3 times per year. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.</p> <p><i>For additional applications see citrus in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions</i></p>
	1.0-1.5 fl. oz./100 gals. water	Water ring drench Soil drench	<p>Apply 5 gals. of the mix around the base of each tree within the watering ring with resets or new plantings. For a soil drench, apply the same concentration as the water ring drench over the row at a rate of 100-250 gals./1000 ft. of row.</p> <p><i>For additional applications see citrus in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.</i></p>

- See your local extension bulletins for recommended use directions.
- Do not use on the highly susceptible sweet orange rootstock in FL.
- If nematodes are a problem, use effective EPA-registered nematicides.
- Do not use for disease control in field nurseries or greenhouse nurseries.
- Do not apply to bare roots.
- Do not make trunk gummosis sprays (in following section) and soil applications to the same tree in the same cropping season.
- Do not apply tank mixes of Ridomil Gold and residual herbicides to citrus trees less than 3 years old. Allow 4 weeks between applications of Ridomil Gold and residual herbicides on trees less than 3 year old.
- Do not apply more than a total of 1.5 gals./A (6 lb. ai./A) per year for all application types on this label.
- See the *General Information* section for further instructions and precautions when making applications through irrigation systems.
- Move Ridomil Gold EC into the seed or root zone as described in the General Information section of the label.

COLE CROPS

Includes Broccoli, Chinese Broccoli, Broccoli Raab (rapini), Brussels Sprouts, Cabbage, Chinese Cabbage (bok choy and napa), Chinese Mustard Cabbage (gai choy), Cavalo Broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens and all hybrids and varieties of these

Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Basal Stem Rot (<i>Phytophthora</i> spp.)	1-2 pt. /A (0.5-1.0)	Pre-plant Incorporated (broadcast or band)	Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
Damping Off (<i>Pythium</i> spp.)	0.25-0.5 pt./A (0.125-0.25)		
	1-2 pt. /A (0.5-1.0)	Soil spray (broadcast or band)	Apply in water or liquid fertilizer at planting. For control of <i>Pythium</i> and <i>Rhizoctonia</i> , use Ridomil Gold PC or tank mix Ridomil Gold EC with Quadris at labeled rates. Use the formula provided in the <i>General Information</i> section of this label to calculate the amount of Ridomil Gold EC needed per acre.
	1-2 pt./A (0.5-1.0)	Injection (drip irrigation)	Inject Ridomil Gold EC into the irrigation water at the rates recommended (see Application Instructions in the <i>General Information</i> section of this label)

- For banded applications, a 7-inch band is recommended. See *Application Instructions*.
- Do not use for disease control in greenhouse or field-grown vegetable bedding plants.
- Do not dip plants in solutions containing Ridomil Gold EC or crop injury may occur.
- Do not use Ridomil Gold EC as a transplant water treatment.
- Tank mix with Terraclor 75WP to control club root (*Plasmodiophora brassicae*) or wirestem/black root (*Corticium solani*). When tank-mixing, observe the most restrictive precautions and use instructions that appear on both products.
- Move Ridomil Gold EC into the seed or root zone as described in the *General Information* section of this label.

CLOVER			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.) Root Rots (<i>Phytophthora</i> spp.)	0.25-0.50 pt. /A (0.125-0.25)	Soil spray (broadcast)	Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil. If the seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the lower rate.
<ul style="list-style-type: none">• Do not feed green forage or cut hay for 90 days following application.• Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.			

COTTON			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Seed Rots Seedling Diseases (<i>Pythium</i> spp.)	1-2 fl. oz. /13,000 ft. of row (0.03-0.06) or 0.075-0.15 fl. oz./ 1,000 ft. of row (0.002-0.004)	In-furrow Spray	Apply in furrow in 5-15 gals. of water per acre or liquid fertilizer per acre at planting. Direct the spray into the furrow over the seed just before the seeds are covered.
<ul style="list-style-type: none">• For control of <i>Pythium</i> and <i>Rhizoctonia</i>, use a tank mix of Ridomil Gold EC with Quadris at labeled rates. When tank mixing, observe the most restrictive precautions and restrictions that appear on the labels of both products.			

Cucurbits Chayote, Chinese waxgourd, citron melon, cucumber, Gherkin, edible Gourd, *Momordica* spp (balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon(cantaloupe, casaba, Crenshaw, golden pershaw, honeydew, honey balls, mango, Persian, pineapple, Santa Claus, and snake melons), Pumpkin, Summer and winter squash, watermelon, and all hybrids and/or varieties of these.

Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.)	1-2 pt /A (0.5-1.0)	Pre-plant incorporated (broadcast or band)	Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
		Soil spray (broadcast or band)	Apply in water or liquid fertilizer at planting. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
		Injection (drip irrigation)	Inject Ridomil Gold EC into the irrigation water at the rates recommended (see application instructions in the <i>General Information</i> section). <i>For foliar applications use Ridomil Gold prepacks.</i>

- For banded applications, a 7-inch band is recommended. See *Application Instructions*.
- Do not use for disease control in greenhouse or field-grown vegetable bedding plants.
- Do not dip plants in solutions containing Ridomil Gold EC as crop injury may occur.
- Do not use Ridomil Gold EC as a transplant water treatment.
- Move Ridomil Gold EC into the seed or root zone as described in the GENERAL INFORMATION section of this label.

Fruiting Vegetables			
Includes Pepper, Tomato*, Eggplant, Ground Cherry, Pepino, Tomatillo			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.) Crown Rot (<i>Phytophthora capsici</i>)	1 pt /A (0.5)	Soil spray (broadcast or band)	Apply in a minimum of 20 gal water per acre, or liquid fertilizer pre-plant or at planting. For direct seeded peppers, apply pre-plant or prior to emergence. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. For additional applications see Fruiting Vegetables in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.
		Injection (drip irrigation)	Inject Ridomil Gold EC into the irrigation water at the rates recommended. See application instructions in the General Information section of this label. Make up to two additional applications following initial application at planting. Use 1 pt/A rate and apply on a 30 day interval. For additional applications see Fruiting Vegetables in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.
<ul style="list-style-type: none"> • *See Tomato section for specific application directions. • For banded applications, use a 12- to 16-inch band. See <i>Application Instructions</i>. • Apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora</i> cannot be cured with Ridomil Gold EC. • The foliar blight phase of <i>Phytophthora</i> cannot be controlled with applications of Ridomil Gold EC. • Do not apply more than a total of 3 pt of Ridomil Gold EC (1.5 lb ai) per acre per season for all application types on this label • Do not use for disease control in greenhouse or field-grown vegetable bedding plants. • In areas where there is a history of late <i>Phytophthora</i> infections, apply another EPA-registered fungicide for <i>Phytophthora</i> control, 17-21 days following the last Ridomil Gold EC application. • Do not apply within 7 days of harvest. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. 			

GINSENG			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Phytophthora Root Rot (<i>Phytophthora cactorum</i>)	0.75 pt./A (0.375)	Soil Drench	For stand establishment, apply uniformly to the soil surface in the spring before the plants start growing. Apply in 100-400 gal water per acre. Follow with supplemental applications of Ridomil Gold GR (See Ridomil Gold GR label).
<ul style="list-style-type: none">• Do not make supplemental applications of Ridomil Gold EC.			

GRASSES*

*Any grass, Graminae family (either green or cured), except the following. Do not apply to sugarcane; to any of the following that will be fed or grazed by livestock: barley, buckwheat, corn, millet (pearl or proso), oats, popcorn, rice rye, sorghum, teosinte, triticale, wheat or wild rice; or to any enclosed pasture grasses or grasses grown for hay or silage such as Bermuda grass, bluegrass, brome grass, or fescue.

Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Seedling Diseases (<i>Pythium</i> spp.)	0.25-1.0 pt /A (0.12-0.5)	Soil spray (broadcast)	Apply as a broadcast soil spray at planting in a minimum of 20 gals. of water. Use 0.25-0.50 pt./A if grass seed was previously treated mefenoxam or metalaxyl seed treatment. Use the higher rate where there has been a history of <i>Pythium</i> diseases.
<ul style="list-style-type: none"> • Do not graze, feed green forage, or cut hay for 60 days following application. • Do not apply to range grasses. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. 			

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HERBS (Fresh and Dried)			
<p>Angelica, balm, basil, borage, burnet, camomile, catnip, chervil (dried) chive, Chinese chive, clary, coriander (leaf), costmary, cilantro (leaf), curry (leaf), dillweed, horehound, hyssop, lavender, lemongrass, lovage (leaf), marigold, marjoram, nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage, summer and winter savory, sweet bay, tansy, tarragon, thyme, wintergreen, woodruff, wormwood</p>			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping off (<i>Pythium spp.</i>)	1-2 pts/A (0.5-1.0)	Pre-plant incorporated (Broadcast or band)	Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
		Soil spray (broadcast or band)	Apply in sufficient water to provide uniform coverage. For banded applications, a 7-inch band is recommended. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. <i>For additional applications see Herbs in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.</i>
<ul style="list-style-type: none"> • Do not apply within 21 days of harvest. • Do not apply more than 4 pts. (2.0 lb ai) of Ridomil Gold EC per acre per year for all application types on this label • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information section</i> of this label. 			

LEAFY VEGETABLES

Amaranth, Arugula, Cardoon, Celery, Chinese celery, Celtuce, Chervil, Chrysanthemum, Corn salad, Garden cress, Upland cress, Dandelion, Dock (Sorrel), Endive (Escarole), Fennel, Lettuce (Head, Leaf), Orach, Parsley, Purslane (Garden, Winter), Radicchio (Red Chickory), Rhubarb, Spinach, New Zealand spinach, Vine spinach, Swiss chard.

Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythim spp.</i>)	1-2 pt./A (0.5-1.0)	Pre-plant incorporated (Broadcast or band) Soil spray (broadcast or band)	Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre. Apply in water or liquid fertilizer at planting. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.
Spinach Only: White Rust (<i>Albugo occidentalis</i>) Downy Mildew (<i>Peronospora effusa</i>)	0.25 pt. /A (0.125)	Shank application	White Rust and Downy Mildew Control : In addition to the preplant incorporated or soil surface application described above, shank in Ridomil Gold EC 21 days after planting or after the first cutting. Another application may be shanked in after the next cutting. A total of 2 shanked applications may be made on a 21- day interval. Use sufficient mechanical or bypass agitation to keep the Ridomil Gold EC mixed with the water or fertilizer. Do not apply more than 2.75 pts. (1.4 lb. ai.) per acre per crop in spinach. Do not exceed a total of 1.4 lb. ai. when using a combination of Ridomil Gold EC, Ridomil Gold GR, or Ridomil Gold/Copper in spinach.

- For banded applications, a 7-inch band is recommended. See *Application Instructions*.
- Do not harvest within 21 days of the last application.
- Do not use for disease control in greenhouse or field-grown vegetable bedding plants.
- Do not use Ridomil Gold EC as a transplant water treatment.
- White rust can only be controlled in a preventive disease control program that begins with an application of Ridomil Gold EC at planting. **If Ridomil Gold EC is not applied at planting, do not use at any other time throughout the season.**
- Do not apply Ridomil Gold EC in foliar applications or make curative applications in situations where white rust is already established. The use of Ridomil Gold EC in curative applications greatly increases the risk of the fungus developing insensitivity to the active ingredient, destroying the effectiveness of Ridomil Gold EC in controlling white rust.
- Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.

LEGUME VEGETABLES (Succulent or Dried)

Bean (*Phaseolus* spp., includes field, kidney, lima, navy, pinto, runner, snap, tepary, wax), Bean (*Vigna* spp., includes adzuki, asparagus, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth, mung, rice, southern pea, urd, yardlong), Broad Bean (fava bean), Chickpea (garbanzo bean), Guar, Jack bean, Lablab bean (hyacinth bean), Lentil, Pea (*Pisum* spp., includes dwarf, edible-pod, English, field, garden, green, snow, sugar snap), Pigeon pea, Soybean *, Soybean (immature seed), Sword bean, Bean (*Lupinus* spp. includes grain, sweet, white, and white sweet)

Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off, Root Rot (<i>Pythium</i> spp.)	0.5-1.0 pt./A (0.25-0.5)	Pre-plant incorporated (broadcast or band)	Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
		Soil spray (broadcast or band)	Apply in water or liquid fertilizer at planting. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.

- *See Soybean section for specific application directions.
- For banded applications, a 7-inch band is recommended. See *Application Instructions*.
- Do not use for disease control in greenhouse or field-grown vegetable bedding plants.
- To control Rhizoctonia root and stem rot, tank mix with Quadris at labeled rates.
- To control white mold (*Sclerotinia sclerotiorum*), tank mix with Terraclor 2E or Terraclor 75WP at labeled rates.
- When tank mixing, observe the most restrictive precautions and restrictions that appear on the labels of both products.
- Move Ridomil Gold EC into the seed or root zone as described in the *General Information section* of this label.

ONIONS: Dry Bulb*, Green**, Onions Grown for Seed			
*garlic, onions (dry bulb), shallots (dry bulb)			
**green onions, leeks, spring onions or scallions, Japanese bunching onions, green shallots, or green eschalots			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.)	0.5–1.0 pt. /A (0.25-0.5)	Pre-plant incorporated (broadcast or band)	Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
		Soil spray (broadcast or band)	Apply in water or liquid fertilizer at planting. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
<ul style="list-style-type: none"> • For banded applications, a 7-inch band is recommended . See <i>Application Instructions</i>. • Do not use for disease control in greenhouse or field-grown vegetable bedding plants. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. 			

Peanuts			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Pythium Root Rot (<i>Pythium</i> spp)	0.25 pt /A (0.125)	In-furrow spray Soil spray (banded)	For seedling disease control apply in-furrow or banded; for in-furrow applications, a rate of 5 gals./acre of water is recommended. For in-furrow applications, position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly or crop injury may occur. For banded applications, apply over the row. A 7-inch band is recommended. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. For additional applications see peanuts in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.
<ul style="list-style-type: none"> • Where pathogens other than <i>Pythium</i> spp. are present, tank mix or sequentially apply fungicides that control those diseases. • See <i>Application Instructions</i> for band application. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information</i> section of this label . 			

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Pineapple			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Heart Rot Disease (<i>Phytophthora</i> spp)	0.5-1.0 pt. in 100 gals. (0.25-0.5)	Crown dip	Apply as a crown dip before planting. Amount of dip solution per acre will depend on crown size, plant density, and dipping techniques. Use 75-100 gallons of the mixture per acre for dipping.
<ul style="list-style-type: none">• If there is crop failure within one year of planting treated crowns, do not harvest plant material for animal feed.			

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Potatoes			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Pythium leak (<i>Pythium</i> spp.) Pink Rot (<i>Phytophthora erythroseptica</i>) Pythium seedling disease (<i>Pythium</i> spp.)	0.42 fl. oz./1,000 row ft. (0.013)	In-furrow spray	Apply directly over the seed pieces in furrow as a 6-8 inch band prior to row closure or use markout application method (incorporated). Apply in a minimum of 3 gals. of water per acre. You may need to follow this in-furrow application with a Ridomil Gold prepack foliar application at tuber initiation: <ul style="list-style-type: none"> • When conditions are conducive for disease development. • When the variety is susceptible or moderately susceptible to Pink Rot/Pythium leak. • In areas with a long growing season.
<ul style="list-style-type: none"> • For banded applications, use a 6 to 8 inch band. See <i>Application Instructions</i>. • Ridomil Gold EC may be impregnated on dry fertilizer and applied at the rates and methods listed above. • May be applied in combination with liquid fertilizers. • May be applied with Admire at labeled rates. • Do not use the "dribble" application method with Admire. • Apply mixture through approved pumping systems only. • Ridomil Gold EC may be combined with Quadris or Platinum at labeled rates for additional disease or insect control. Follow the most restrictive label in the tank-mix. • Do not apply Ridomil Gold EC beyond the at-planting stage. 			

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Root and Tuber Vegetables

Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (Garden and Sugar*) Burdock, edible, Canna, edible, Carrot**, Cassava (bitter and sweet), Celeriac, Chayote, Chervil, turnip rooted, Chicory, Chufa, Dasheen, Ginger, Ginseng***, Horseradish, Leren, Parsely, turnip-rooted, Parsnip, Potato****, Radish, Radish, Oriental, Rutabaga, Salsify (Oyster Plant, Black, Spanish), Skirret, Sweet Potato, Tanier, Tumeric, Turnip, Yam Bean, Yam, True

Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Pythium root rots (<i>Pythium</i> spp.) Phytophthora root rots (<i>Phytophthora</i> spp.)	1-2 pt./A (0.5-1.0)	Pre-plant incorporated (broadcast or band) Soil spray (broadcast or band)	Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use sufficient water to provide uniform coverage of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. Apply in water or liquid fertilizer at planting. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.

- *See Sugar Beets section for specific application directions.
- **See Carrot section for specific application directions.***See Ginseng section for specific application directions.
- ****See Potato section for specific application directions.
- For banded applications, a 7-inch band is recommended . See *Application Instructions*.
- Do not use for disease control in greenhouse or field-grown vegetable bedding plants.
- For control of Pythium and Rhizoctonia, tankmix Ridomil Gold EC with Quadris at labeled rates. Observe the most restrictive precautions that appear on the labels of both products.
- Move Ridomil Gold EC into the seed or root zone as described in the *General Information* section of this label .

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Soybeans			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Phytophthora Root and Stem Rot <i>(Phytophthora megasprema)</i> Pythium Damping Off <i>(Pythium spp)</i>	0.08-0.28 fl.oz./1000 row ft. (0.0025 to 0.0087)	In-furrow spray	Apply in-furrow in 5-10 gals. water or liquid fertilizer. Position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly or crop injury may occur. Use the high rate for full season control. Use 0.08-0.15 fl oz for early-to mid-season control. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
	0.37-1.25 pt./A (0.18-0.63)	Soil spray (broadcast or band)	Apply in water or liquid fertilizer. For banded applications, a 7-inch band is recommended . Use the high rate for full season control. Use 0.37-0.75 pt. for early-to mid-season control. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
<ul style="list-style-type: none"> • For best results, use soybean varieties that have some tolerance to the races of <i>Phytophthora</i> present in the field. • Use the higher rate in areas with a history of heavy <i>Phytophthora</i> damage. • Under heavy late season <i>Phytophthora</i> pressure, Ridomil Gold EC may not provide complete control. • See <i>Application Instructions</i> for band application. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. 			

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Sugar Beets			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Pythium root rot (<i>Pythium</i> spp.)	1-2 pt. /A (0.5-1.0)	Pre-plant incorporated (broadcast or band)	Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
		Soil spray (broadcast or band)	Apply in water or liquid fertilizer at planting.
<ul style="list-style-type: none"> • For banded applications, a 7-inch band is recommended . See <i>Application Instructions</i>. • Do not apply more than 2 pt (1.0 lb ai) per acre. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information</i> section of this label. 			

Tobacco (Applications at seeding or planting)			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping-Off <i>(Pythium spp.)</i>	0.5 - 1.0 pt./A (0.25 - 0.5) or ¼ - ½ fl. oz./150 square yards	Broadcast Spray	Apply as a preplant soil application before or at time of seeding. Use 50 gals. water per treated acre (2 gals. water/150 square yard) . Use higher rate on broadleaf tobacco.
Blue mold <i>(Peronospora tabacina)</i>	0.5-1.0 pt. /A (0.25-0.5) For no-till tobacco 0.5-1.0 pt/A (0.25-0.5)	Soil spray (broadcast)	Apply as a broadcast soil application prior to transplanting and incorporate in the top 2-4 inches of soil before forming beds. Use the low rate for low disease pressure or early-season control. Use the high rate for high disease pressure, extended control, and burley and other tobacco types other than flue-cured. <i>For additional applications see tobacco in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.</i>
Black Shank <i>(Phytophthora parasitica var. nicotianae)</i>	1-3 pts. /A 0.5-1.5) For no-till tobacco 0.5-1.0 pt/A (0.25-0.5)	Soil spray (broadcast)	Apply to the soil within one week of planting. Incorporate in the top 2-4 inches of soil. Use the high rate if the disease epidemic is expected to be severe. In FL and GA use 3 pts. per acre where black shank is severe. Apply preventively for effective black shank control. If black shank is expected early in the season, apply as near as possible to transplanting followed by sequential applications. <i>For additional applications see tobacco in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.</i>

- Do not dip plants in solutions containing Ridomil Gold EC or crop injury may occur.
- Do not use as a foliar spray.
- For best results against black shank, use tobacco varieties that have high resistance to black shank and use crop rotation.
- In fields with a history of severe black shank, use the highest rate and plant a variety resistant to the race of Phytophthora present (Burley L8 hybrids are resistant to only Phytophthora Race 0).
- Do not use in high black shank areas on highly susceptible flue-cured varieties.
- Failure to adequately control nematodes in fields treated with Ridomil Gold EC may result in poor control of black shank.
- Do not use Ridomil Gold EC for black shank control in PA.
- Do not use in float houses, floatbed production, hydroponic production, tobacco plantbed or greenhouse facilities.
- Do not use as a transplant water treatment.
- Do not apply more than 3 pts./A per crop per season for all application types on this label.
- Move Ridomil Gold EC into the seed or root zone as described in the *General Information* section of this label.

Tomato			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.)	1-2 pts./A (0.5-1.0)	Soil spray (broadcast or band)	Apply at planting in water or liquid fertilizer. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. <i>For additional applications see Tomatoes in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.</i>
Root and Fruit rot (<i>Phytophthora</i> spp) (<i>Pythium</i> spp.)	1-2 pts./A (0.5 - 1.0)	Injection (drip irrigation)	Inject Ridomil Gold EC into the irrigation water at the rates recommended (see application instructions in the <i>General Information section</i>) of this label. Make the first application at 4-6 weeks after planting. A second application may be made as needed up to 4 weeks before harvest, but before the last irrigation. <i>For additional applications see Tomatoes in Part 2-Soil Directed and Other Foliar Applications under Crop Use Directions.</i>
<ul style="list-style-type: none"> • For banded or injected applications, a 7-inch band is recommended . See <i>Application Instructions</i>. • Do not apply more than 3 pt (1.5 lb ai) per acre per season for all application types on this label. • Do not use Ridomil Gold EC for disease control in greenhouse or field-grown vegetable bedding plants • Do not use Ridomil Gold EC as a transplant water treatment. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information section</i> of this label. 			

Crop Use Directions - PART 2

SOIL DIRECTED AND OTHER FOLIAR APPLICATIONS

ALFALFA (including birdsfoot trefoil)			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.) Root Rots (<i>Phytophthora</i> spp.)	0.25 pt./A (0.12)	Soil spray (broadcast)	Apply as a broadcast soil surface spray at planting when inter-seeding into existing stands for renovation. Apply in a minimum of 20 gals. of water/A. <i>For additional applications see Alfalfa in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</i>
<ul style="list-style-type: none"> • Do not feed green forage or cut hay for 60 days following application. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. 			

APPLES (Bearing and Nonbearing Trees)			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Crown Rot Collar Rot Root Rot <i>Phytophthora</i> spp.)	2 qts. /A (2.0) or 1.5 fl.oz./1000 sq. ft.	Soil spray (broadcast or band)	Apply to the soil in the early spring before growth starts and in the fall after harvest, but before the ground freezes. The treated area is based on the area under the tree canopy or the area of the sprayed row. Use sufficient water volume to obtain thorough coverage of the soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
	Diluted Mixture: 0.5 pt. in 100 gals. water (0.25)	Soil drench	Apply the diluted mixture around the trunk of each tree in the early spring before growth starts and in the fall after harvest, but before the ground freezes. On new plantings, delay the first application until 2 weeks after planting. If the trunk diameter at 12 inches above the soil line is less than 1 inch, apply 1 qt of the mixture per tree. If the diameter is 1-3 inches, apply 2 qts, if it is 3-5 inches, apply 3 qts., and greater than 5 inches, apply 4 qts.
<ul style="list-style-type: none"> • Apply before symptoms appear. Ridomil Gold EC will not revitalize trees showing moderate to severe disease symptoms. Use Ridomil Gold EC in conjunction with good cultural practices and rootstocks that are most tolerant to disease. • Do not dip roots or spray bare roots with solutions containing Ridomil Gold EC as crop injury may occur. • Do not graze or feed cover crops in treated orchards. • See <i>Application Instructions</i> for band application. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information section</i> of this label 			

ASPARAGUS			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Crown Rot Spear Rot <i>Phytophthora</i> spp.)	1.0 pt. /A (0.5)	Soil spray (broadcast or band)	<p>Cutting Beds: Apply 30 to 60 days before the first cutting. Apply again just before the beginning of harvest. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.</p> <p>New Plantings: Apply after planting seedlings or after covering one-year old crowns. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.</p>
<ul style="list-style-type: none"> • Do not apply within one day of harvest. • See <i>Application Instructions</i> for band application. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information section</i> of this label. 			

AVOCADOS			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Root Rot (<i>Phytophthora cinnamomi</i>)	1-4 pts./A (0.5-2.0)	Sprinkler irrigation	Apply as a soil surface spray to the soil surface under the tree canopy. Begin applications at the start of the growing season or at transplanting. Two additional applications may be made at 3-month intervals. Applications are not needed during the winter months of November through February. Use 1 pt./tree acre if the trees have a canopy diameter of 2 ft. Increase the rate as the canopy diameter increases. For canopy diameters of 15 ft or more, use the 4 pt rate.
		Soil Spray	Apply to the soil directly under the drip emitter. Use irrigation to incorporate the material into the soil. If there is more than one emitter, distribute the amount of Ridomil Gold among the emitters. Use the same rate and application regime described above under sprinkler irrigation. <i>For additional applications see Avocados in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</i>
<ul style="list-style-type: none"> • Begin applications as soon as soil tests indicate the presence of <i>Phytophthora</i>. • For new plantings, use <i>Phytophthora</i> resistant rootstocks. Mature trees in moderate to advanced stages of decline cannot be cured with Ridomil Gold EC. • Do not apply more than 1 ½ gal (6 lb. ai.) total per acre per year for all applications types on this label. • Do not apply within 28 days of harvest. • See the <i>General Information</i> section for further instructions and precautions when making applications through irrigation systems. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information</i> section of this label. 			

BLUEBERRIES			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Root Rot (<i>Phytophthora</i> spp.)	3.6 pts. /A (1.8) or 0.25 pt./1000 linear ft.of row	Soil spray (broadcast or band)	New Plantings: Apply at the time of planting. For band applications, use an 18-inch band. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. Re-apply once during a period favorable for root rot (for these application directions see blueberry section mentioned below).
Root Rot (<i>Phytophthora</i> spp.)	3.6 pts. /A (1.8)	Soil spray (band)	Established Plantings: Make applications in a 3-ft. band over the row before the plants start to grow in the spring. One additional application may be made to coincide with the period most favorable for root rot development. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
<ul style="list-style-type: none"> • Ridomil Gold EC will not revitalize plants showing moderate to severe root rot symptoms. Use Ridomil Gold EC in conjunction with good cultural practices to minimize disease. • Do not apply more than a total of 0.9 gal. (3.6 lb. ai) per acre during the 12 months before bearing fruit. • See <i>Application Instructions</i> for band application. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Use</i> section of this label. 			

CARROTS			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off Cavity Spot Root Dieback (<i>Pythium</i> spp.)	0.20 pt./A (0.1 lb.)	Directed Spray (broadcast or band)	Make up to 4 supplemental applications beginning 40-60 days after planting on a 14-21 day interval. Apply as a spray directed to base of plant. Use sufficient water to provide uniform coverage of soil. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre.
		Irrigation	Inject Ridomil Gold EC into the irrigation water at the rates recommended (see Application Instructions in the General Information section of this label). <i>For additional applications, see Carrots in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</i>
<ul style="list-style-type: none"> • For banded applications, a 7-inch band is recommended. See <i>Application Instructions</i>. • <i>Pythium</i> spp. and the diseases listed in this section can only be controlled in a preventative disease control program that begins with an application of Ridomil Gold EC to the soil at planting or pre-emergence. If Ridomil Gold EC is not used at planting or pre-emergence, DO NOT use Ridomil Gold EC at any other time throughout the growing season. Supplemental applications listed in Part 2 of this label are required for control of Cavity Spot and Root Dieback caused by <i>Pythium</i> spp. • Do not apply more than 2.8 pts. (1.4 lb. ai) of Ridomil Gold EC per acre per crop per season for all application types on this label. • Do not harvest carrots within 7 days of a Ridomil Gold application. • Do not use for disease control in greenhouse or field-grown vegetable bedding plants. • Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information</i> section. 			

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CITRUS Grapefruit, Lemon, Lime, Orange, Tangelo, Tangerine, Citrus citron, Kumquat, Satsuma Mandarin, Calamandin, Pummelo, Citrus hybrids			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Citrus Foot Rot Root Rot Trunk Canker Brown Rot <i>(Phytophthora spp.)</i>	1 pt.-3 qts./A (0.5-3.0)	Soil spray (micro-sprinkler or band)	<p>Established Plantings: Begin Ridomil Gold EC applications during the spring root flush period. One or two additional applications may be made to coincide with flushes of root growth. Use the low rate if <i>Phytophthora</i> propagule counts are 10-20 per cubic centimeter of soil. Where propagule counts are above 20 per cubic centimeter, apply 1 qt/A rate. Recommend 2-3 applications per year. Inject Ridomil Gold EC into the irrigation water at the rates recommended (see Application Instructions in the General Information section).</p> <p>In AZ and CA, apply 1-2 qts./A if 3 applications are made or 3 qts./A if 2 applications are made.</p> <p><i>For additional applications see citrus in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</i></p>
Gummosis	1 qt. in 3 gals. Of water (1.0)	Trunk spray	<p>Trunk Spray for Gummosis: Apply 1 qt in 3 gal of water and spray the trunks to thoroughly wet the cankers. Apply up to 3 times per year.</p> <p>In FL, add 1 qt. to 10 gals. of water.</p> <p><i>For additional applications see citrus in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</i></p>

- See your local university extension bulletins for recommended use directions
- Do not use on the highly susceptible sweet orange rootstock in FL.
- If nematodes are a problem, use effective EPA-registered nematicides.
- Do not use for disease control in field nurseries or greenhouse nurseries.
- Do not apply to bare roots as crop injury may occur.
- Do not make trunk gummosis sprays and soil applications to the same tree in the same cropping season.
- Do not apply tank mixes of Ridomil Gold and residual herbicides to citrus trees less than 3 years old. Allow 4 weeks between applications of Ridomil Gold and residual herbicides on trees less than 3 year old.
- Do not apply more than a total of 1.5 gals./A (6 lbs. ai/A) per year for all application types on this label.
- See the General Information section of this label for further instructions and precautions when making applications through irrigation systems.
- Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.

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CRANBERRIES			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Phytophthora Root Rot (<i>Phytophthora</i> spp.)	1-1.75 pts. /A (0.5-0.90)	Soil Spray (Broadcast)	Apply broadcast 3 times by ground or chemigation equipment. Make the first application in the fall after harvest. Make the second application in the spring and the final application up to, but no later than 45 days before harvest. Use a minimum of 20 gals. of water per acre when applying with ground equipment.
<ul style="list-style-type: none">• Do not apply by air.• Do not apply within 45 days of harvest.• Do not apply more than 5.25 pt/A (2.65 lbs. ai/A) per growing season.• See the <i>General Information</i> section for further instructions and precautions when making applications through irrigation systems.• Move Ridomil Gold EC into the seed or root zone as described in the <i>General Information</i> section of this label.			

FRUITING VEGETABLES			
Includes Pepper, Tomato*, Eggplant, Ground Cherry, Pepino, Tomatillo			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Crown Rot (<i>Phytophthora capsici</i>)	1 pt./A (0.5)	Banded spray Shank application	Make 2 post-directed applications at 30-day intervals following transplanting. Direct the spray to the base of the plants and cover 6-8 inches of the soil on either side of the plants. Incorporate mechanically or sprinkler irrigate to move the Ridomil Gold EC into the root zone. Ridomil Gold EC may be applied in liquid fertilizer, shanked in as a banded treatment to either side of the plant. Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. For additional applications see Fruiting Vegetables in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.
<ul style="list-style-type: none"> • * See Tomato section for specific application directions. • For banded applications, use a 12- to 16-inch band. See <i>Application Instructions</i>. • May cause some yellowing of pepper leaves. • Apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora</i> cannot be cured with Ridomil Gold EC. • The foliar blight phase of <i>Phytophthora</i> cannot be controlled with foliar applications of Ridomil Gold EC. • Do not use for disease control in greenhouse or field-grown vegetable bedding plants. • In areas where there is a history of late <i>Phytophthora</i> infections, apply another EPA-registered fungicide for <i>Phytophthora</i> control 17–21 days following the last Ridomil Gold EC application. • Do not apply within 7 days of harvest. • Do not apply more than 3 ptS./A (1.5 lbs. ai/A) per growing season for all application types on this label. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label . 			

HERBS (Fresh and Dried)			
Angelica, balm, basil, borage, burnet, camomile, catnip, chervil (dried) chive, Chinese chive, clary, coriander (leaf), costmary, cilantro (leaf), curry (leaf), dillweed, horehound, hyssop, lavender, lemingrass, lovage (leaf), marigold, marjoram, nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage, summer and winter savory, sweet bay, tansy, tarragon, thyme, wintergreen, woodruff, wormwood			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping off (<i>Pythium</i> spp.)	1-2 pts./A (0.5-1.0)	Banded spray	Apply as a basally directed spray at 28 days after planting or after the first cutting. The spray should be directed toward the base of the plants and cover 6-8 inches on each side of the plants (12-16 inch band width/row). Use the formula provided in the <i>General Information Section</i> of this label to calculate the amount of Ridomil Gold EC needed per acre. <i>For additional applications see herbs in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</i>
<ul style="list-style-type: none"> • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. • Do not apply within 21 days of harvest. • Do not apply more than 4 pts. (2.0 lb ai) of Ridomil Gold EC per acre per year. 			

HOPS			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Downy Mildew (<i>Pseudoperonospora humuli</i>)	0.5 pts./A (0.25)	Soil Drench	Apply in water (minimum of 20 gals.) or liquid fertilizer to the soil over the crowns after pruning but before training. Apply early when shoots are 6 inches or less.
		Foliar spray	At first sign of a secondary infection (primary infection persists after the soil drench and/or there is evidence of foliar infection) apply in combination with copper fungicides. Kocide®101 may be added to the Ridomil Gold EC at a rate of 2 lbs./A. Apply by ground with a minimum of 50 gals. water/A.
<ul style="list-style-type: none">• Do not make more than 3 applications of Ridomil Gold EC per season (1 soil drench + 2 foliar sprays).• Do not apply within 45 days of harvest.• Do not apply foliar sprays of Ridomil Gold EC without a copper fungicide registered for hops.• Move Ridomil Gold EC into the seed or root zone as described in the General Information Section of this label.			

Lingonberry			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Root Rots (<i>Phytophthora</i> spp.)	0.25 pt. per 1000 linear ft. of row (0.125)	Soil spray (band)	Established plantings: Apply Ridomil Gold EC in a 3-ft band over the row before the plants start growth in the spring. One additional application may be made to coincide with periods most favorable for root rot development. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.
	3.6 pts./A (1.8)	Soil spray (broadcast or band)	New Plantings: Apply Ridomil Gold EC as a broadcast spray to the soil at or after the time of planting. A second application should be made to coincide with periods most favorable for root rot development. For banded applications, an 18-inch band over the row is recommended. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.
<ul style="list-style-type: none"> • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. • May be applied the day of harvest (0-day PHI). • On new plantings, do not apply more than 0.9 gal. (3.6 lb ai) Ridomil Gold EC per acre broadcast during the 12 months before bearing harvestable fruit or illegal residues may result. 			

PEANUTS			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Pod Rot (<i>Pythium</i> spp.)	0.5–1 pt. /A (0.25-0.5)	Soil spray (banded) Foliar spray	<p>Pod Rot: Apply at early pod set as a soil spray or at pegging as a foliar spray (overhead irrigation, ground or aerial application).</p> <p>Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.</p> <p>For additional applications see Peanuts in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</p>
<ul style="list-style-type: none"> • For control of <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp., add Quadris at labeled rates. When tank-mixing, observe the most restrictive precautions and use instructions that appear on both products. • See the General Information section for further instructions and precautions when applying through irrigation systems. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. 			

RASPBERRIES			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Phytophthora Root Rot (<i>Phytophthora</i> spp.)	0.25 pt./1000 ft.of row (0.125)	Soil spray (banded)	Apply in the spring and in the fall after harvest. Apply in a 3 foot band. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.
<ul style="list-style-type: none">• Do not apply within 45 days of harvest.• See <i>Application Instructions</i> for band application• Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.			

Stone Fruits*, Walnuts and Almonds

*Apricots, Cherries (sweet, tart), Nectarines, Peaches, Plums (Chickasaw, Damson, Japanese), Plumcots, Prunes and hybrids or cultivars of these.

Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Crown Rot Collar Rot Root Rot (<i>Phytophthora</i> spp.)	2.0 qts./A (2.0) or 1.5 fl.oz./1000 sq.ft.	Soil spray (broadcast or band)	Apply under the tree canopy to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings). Additional applications may be made at 2-3 month intervals, depending on disease pressure. Up to 3 applications can be made per year. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.

- Apply before symptoms appear. Ridomil Gold EC will not revitalize trees showing moderate to severe disease symptoms.
- Do not dip or spray tree roots.
- Do not concentrate spray around tree trunks.
- Do not apply to trees under stress.
- For intense plantings (2-3 times the normal planting rate), apply on a per area basis (1000 sq.ft.) not a per tree basis.
- In CA, do not apply to newly planted trees within 45 days of planting. On some varieties, chlorosis may occur on leaf margins.
- Do not graze livestock in treated areas.
- Do not graze or feed cover crops grown in treated orchards.
- Do not apply more than 1.5 gals./A (6 lbs. ai/A) per year.
- Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.

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STRAWBERRIES			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Red Stele (<i>Phytophthora fragariae</i>) Vascular Collapse (<i>P. cactorum</i>) Leather Rot (<i>P. cactorum</i>)	1 pt. /A (0.5)	Soil spray (banded) Drip irrigation	<p>Annual Plantings. Apply up to 3 times per crop. Make first application after transplanting. A second application should be made 30 days before the beginning of harvest or at fruit set. A third application may be made during harvest, depending on disease pressure and environmental conditions. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.</p> <p>Established Plantings. Apply up to 3 times per crop. Make first application in the spring after the ground thaws and before first bloom. A second application may be made after harvest in the fall. For control of leather rot, make a supplemental application during the growing season at fruit set. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre.</p>
<ul style="list-style-type: none"> • May apply as a band application. See <i>Application Instructions</i>. • If applying through drip irrigation, calculate the rate as a band application with a band width equal to the root zone width. Inject Ridomil Gold EC into the irrigation water at the rates recommended (see application instructions in the General Information section of this label). • Do not apply more than 1.5 qts./A (1.5 lbs. ai/A) per year. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. 			

TOBACCO			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Blue mold (<i>Peronospora tabacina</i>)	0.5 pt. /A (0.25) For no-till tobacco 0.5-1.0 pt. /A (0.25-0.5)	Soil spray (band)	For prolonged control of blue mold in field planted tobacco, make a supplemental application at lay-by or the last cultivation. Position the nozzles so the spray is deposited under the plants and is covered by the soil in cultivation. Do not make this application if more than 1 pt/A of Ridomil Gold EC was applied prior to transplanting or if no Ridomil Gold EC was applied prior to transplanting. Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre. For additional applications see Tobacco in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.
Black Shank (<i>Phytophthora parasitica</i> var. <i>nicotianae</i>)	1-2 pts. /A (0.5-1.0) For no-till tobacco 0.5-1.0 pt. /A (0.25-0.5)	Soil Spray (broadcast or band)	Position the nozzles so the spray is deposited under the plants and covered with soil by the cultivator. Use the high rate if the disease epidemic is expected to be severe. Make one application at lay-by or make one application at the 1 st cultivation and a 2 nd application at lay-by. In FL and GA use 1.5 qts. per acre where black shank is severe. Do not make these applications if more than 1 pt./A of Ridomil Gold EC was applied prior to transplanting. Apply preventively for effective black shank control. If black shank is expected early in the season, apply as near as possible to transplanting followed by sequential applications. For additional applications see Tobacco in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions

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- Do not dip plants in solutions containing Ridomil Gold EC or crop injury may occur.
- Do not use as a foliar spray.
- For best results against black shank, use tobacco varieties that have high resistance to black shank and use crop rotation.
- In fields with a history of severe black shank, use the highest rate and plant a variety resistant to the race of Phytophthora present (Burley L8 hybrids are resistant to only Phytophthora Race 0).
- Do not use in high black shank areas on highly susceptible flue-cured varieties.
- Failure to adequately control nematodes in fields treated with Ridomil Gold EC may result in poor control of black shank.
- Do not use Ridomil Gold EC for black shank control in PA.
- Do not use in float houses, floatbed production, hydroponic production, tobacco plantbed or greenhouse facilities.
- Do not apply more than 3 pts./A per crop per season for all application types on this label.
- Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.

TOMATO			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Root and Fruit rot <i>(Phytophthora spp)</i> <i>(Pythium spp.)</i>	1 pt./A (0.5)	Soil spray (broadcast or band) Soil injection	Make application at 4-6 weeks after planting. A second application may be made as needed up to 4 weeks before harvest, but before the last irrigation. Ridomil Gold EC may be applied as a directed soil surface spray under the vines or injected into the beds with liquid fertilizer. Inject Ridomil Gold EC into the irrigation water or liquid fertilizer at the rates recommended (see Application Instructions in the General Information section of this label). Use the formula provided in the General Information Section of this label to calculate the amount of Ridomil Gold EC needed per acre. <i>For additional applications see Tomatoes in Part 1-Soil-Injected or Soil-Incorporated Applications Under Crop Use Directions.</i>
<ul style="list-style-type: none"> • Do not apply more than 3 pts. (1.5 lb ai) per acre per season for all application types on this label. • Do not use Ridomil Gold EC for disease control in greenhouse or field-grown vegetable bedding plants • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label . 			

TROPICAL FRUIT			
Papaya, Black sapote, Star apple, Canistel, Mamey sapote, Mango, Sapodilla			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.) Root Rots (<i>Phytophthora</i> spp.)	1.5-3.0 pts./A (0.75-1.5)	Soil drench	Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Apply to the base of plants in a one square foot area. Determine the number of plants per acre. Measure the amount of water required to drench one plant (approximately one square foot of soil around each plant). Multiply that volume by the number of plants per acre to determine the total water volume per acre. Add Ridomil Gold EC at the rate of 1.5 to 3 pints per acre to this amount of water and drench plants. Two applications may be made per growing season. The first application should be made at transplanting or in the spring at root growth flush. A second application may be made up to 30 days prior to harvest.
<ul style="list-style-type: none"> • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. • Do not apply Ridomil Gold EC as a soil drench if Ridomil Gold Copper will be used as a trunk and foliage spray. • Do not apply within 30 days of harvest (30-day PHI) 			

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TROPICAL FRUIT			
Sugar apple, Atemoya, Custard apple, Cherimoya, Ilima, Soursop, and Birida.			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Damping Off (<i>Pythium</i> spp.) Root Rots (<i>Phytophthora</i> spp.)	1.5-3.0 pts./A (0.75-1.5)	Soil drench	Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Make one application in the spring when root growth begins and a second application in the fall. Direct applications to the soil surface under the canopy of the trees.
<ul style="list-style-type: none">• Do not apply within 30 days of harvest (30-day PHI).• Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.•			

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TROPICAL FRUIT			
Starfruit			
Disease(s) Controlled	Rate (lb ai)	Applicati on Type	Directions for Use
Phytophthora Root and Crown Rot (<i>Phytophthora</i> spp.)	1.5-3.0 pts./A (0.75-1.5)	Soil drench	Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Make one application in the spring when root growth begins and a second application in the fall. Direct applications to the soil surface under the canopy of the trees.
Pythium Root and Crown Rot (<i>Pythium</i> spp.)			
<ul style="list-style-type: none">• Do not apply within 30 days of harvest (30-day PHI).• Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label.			

TROPICAL FRUIT			
Kiwifruit			
Disease(s) Controlled	Rate (lb ai)	Application Type	Directions for Use
Root and Crown Rots (<i>Pythium</i> and <i>Phytophthora</i> spp.)	5.6-11.2 oz. /40 gals. of water (0.175-0.35)	Soil drench	Apply 1 qt. of Ridomil Gold EC solution as a soil drench in a one square foot area around the base of each vine. At the recommended rate of 5.6-11.2 oz. this will apply 0.175-0.35 lb ai/A if the planting density is 160 vines per acre. Make the first application in the fall after harvest or in February or early March. Make a second application in spring or approximately 60 days after the February or March application.
<ul style="list-style-type: none"> • Do not apply within 200 days of harvest (200-day PHI) • Do not apply more than 1.4 pts. (0.7 lb. ai) Ridomil Gold EC per acre per growing season. • Move Ridomil Gold EC into the seed or root zone as described in the General Information section of this label. • 			

REPLANTING

If replanting is necessary, additional applications of Ridomil Gold EC may be made, provided that the total amount of active ingredient in Ridomil Gold EC applied does not exceed the maximum allowed for the specific crop.

ROTATION (PLANTBACK) RESTRICTION

Do not plant any crop which is not registered for use with the Ridomil Gold active ingredient in soil treated with this active ingredient for a period of 12 months, unless a shorter interval is specified on the following list.

Rotation Crop	Planting Time From Last Ridomil Gold EC Application	
Alfalfa (including birdsfoot trefoil) Almonds Apples Asparagus Avocados	0 days	
Blueberries		
Carrot Citrus Clover Cole Crops Cotton Cranberries Cucurbit Vegetables		
Deciduous Fruits and Nuts*		
Eggplant		
Garlic Ginseng Grapes Grasses**		
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		
Cereal Grains (other than Corn)		14 days
Corn		9 months
Crops Not Intended for Food or Feed		0 days
All Other Crops Intended for Food or Feed		12 months

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*These crops and other perennial crops may be planted immediately following last application of Ridomil Gold EC, provided they will not bear harvestable fruit within 12 months.

**Any grass, Gramineae family (either green or cured), except the following. Do not apply to sugarcane; to any of the following that will be fed to or grazed by livestock: barley, buckwheat, corn, millet (pearl or proso), oats, popcorn, rice, rye, sorghum, teosinte, triticale, wheat, or wild rice; or to any enclosed pasture grasses or grasses grown for hay or silage such as bermudagrass, bluegrass, bromegrass, or fescue.

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SCP 801

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Revise per EPA letter dated 12/9/99 from Mary Waller
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