

100-804

3-1-2004

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MAR 1 2004

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

Subject: Ridomil Gold®/Copper
EPA Reg. No. 100-804
Amendment dated September 19, 2003 and label resubmitted October 16, 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:

Rotation (Plantback) Restrictions (page 15): Move this section to a position following the "Tropical Fruit" use instructions, and format the section so that it is clear that the restrictions are not just applicable to Tropical Fruit.

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, appearing to read "Mary Waller".

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

Enclosure

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Ridomil Gold®/Copper

Fungicide

For the control of certain diseases in various fruits and vegetables

Active Ingredients:

Mefenoxam (CAS No. 70630-17-0)	4.8%
Related Compounds	0.2%
Copper Hydroxide*: (Cu(OH) ₂)	60.0%
Other Ingredients:	35.0%
Total:	100.0%

*Metallic Copper equivalent.....39.1%

Ridomil Gold/Copper is a wettable powder packaged in a water-soluble bag.

This outer protective container contains Ridomil Gold/Copper in an inner water-soluble bag. Entire inner bag and contents dissolve in water. After opening outer container, immediately dump entire unopened inner bag into the partially filled sprayer or mix tank. Do not handle the soluble bag or expose it to moisture, since this may cause rupturing.

KEEP OUT OF REACH OF CHILDREN.

DANGER/PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See directions for use on right side of container.

See additional precautionary statements on left side of container.

EPA Reg. No. 100-804
EPA Est. 67545-AZ-1

5 pounds
Net Weight

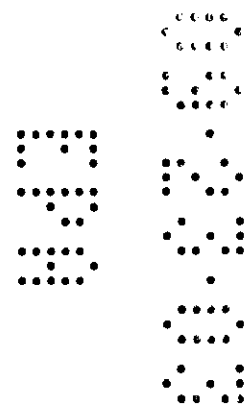
SCP 804B-M2

ACCEPTED
with COMMENTS
In EPA Letter Dated:

MAR 1 2004

Under the Federal Insecticide,
Fungicide and Rodenticide Act,
I hereby register for the pesticide
under EPA Reg. No.

100-804



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 a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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 further treatment advice.
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.
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

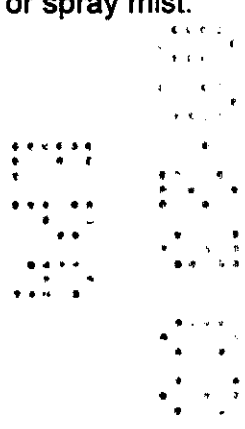
DANGER/PELIGRO

Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust or spray mist. Avoid contact with skin 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 material



- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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

This pesticide is toxic to fish and aquatic organisms. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by disposal 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.

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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 Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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DIRECTIONS FOR USE

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

Ridomil Gold/Copper should be used only in accordance with recommendations on this label or in separately published Syngenta supplemental labeling recommendations for this product.

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

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.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

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STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage

Store in a cool, dry place. Do not store this product under wet conditions. Handle outer packaging carefully to avoid breakage of inner soluble bags.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

Do not reuse outer container. Dispose of empty outer container in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

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

GENERAL INFORMATION

Ridomil Gold/Copper is a foliar fungicide containing 5% Ridomil Gold active ingredient and 60% of the active ingredient copper hydroxide. Ridomil Gold is a systemic fungicide for use on selected crops to control diseases caused by members of the Phycomycete family of fungi. Copper is effective against a wide range of fungal pathogens.

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Note: Ridomil Gold/Copper 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/Copper as recommended, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of a Ridomil Gold insensitive strain of fungi, neither Ridomil Gold/Copper 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 in your particular crop and disease control situation.

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

Do not make applications when weather conditions favor drift from target area. Avoid spray overlap as crop injury may result.

MIXING INSTRUCTIONS

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. **Vigorous agitation is necessary to dissolve the bag and disperse the product. Maintain maximum agitation throughout the spraying operation.** Flush spray tank thoroughly with water daily after use and dispose of pesticide rinsate by application to an already treated area.

Amount of water needed per acre will vary according to the amount of plant growth. For dilute ground application, the water volume will vary from 20-150 gals./acre. For aerial application, 3-10 gals of water per acre are generally needed: To minimize the potential of drift from target area, application at wind speeds greater than 10 mph is not recommended.

Precautions: (1) Soluble bags of Ridomil Gold/Copper must be dissolved completely, and the product must be uniformly dispersed in the mix water, before any other tank mix partner, including micronutrients, or other dry or liquid fertilizers are added to the solution. Boron, especially in the form of a micronutrient additive, such as Solubor®, etc., or as a natural component of the mix water, may prevent water-soluble bags from dissolving. (2) A minimum of 5 gals. of water per acre must be used in the mix tank. (3) Do not let spray mixture stand overnight in the spray tank. (4) Rinse spray tank at the end of the day.

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Ridomil Gold/Copper Alone: Add $\frac{1}{4}$ of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Ridomil Gold/Copper into the tank all at once. Continue agitation while adding the remainder of water and during application to maintain a uniform suspension.

BEFORE TANK MIXING RIDOMIL GOLD/COPPER 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/COPPER.

When tank mixing, apply in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Ridomil Gold/Copper + Tank Mixtures: Add $\frac{1}{4}$ of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Ridomil Gold/Copper into the tank all at once. After the water-soluble bags have dissolved and the products have dispersed uniformly into the mix water, continue to fill the tank with water. Then add the desired amount of the other products recommended for tank mixture. Continue agitation while adding the remainder of the water and during application to maintain a uniform suspension.

Application Through Irrigation Systems

Ridomil Gold/Copper, 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, or moving wheel 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 non-uniform 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 operation, or under the supervision of this responsible person, shall shut the system down and make necessary adjustments, should the need arise.

Precaution: Corrosion of aluminum, alloy, and carbon-based steel irrigation systems may result from the use of copper-based fungicides. After using Ridomil Gold/Copper, immediately flush with water (within one hour) all irrigation systems and associated piping in a manner, which will not wash the product from the foliage and reduce disease control. The end-

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user assumes all responsibility for the use of this product through such systems.

Posting Requirements

Posting of areas to be chemigated is required when (1) any part of a treated area is within 300 ft. of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or (2) when the chemigated area is open to the public, such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2½ inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

This sign is in addition to any sign posted to comply with the Worker Protection Standard.

Operating Instructions

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.

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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.

Application Instructions

Ridomil Gold/Copper must be applied as the schedule specifies in the specific crop use recommendations, not according to the irrigation schedule. If irrigation schedules are used, ground or aerial applications must supplement chemigation applications to achieve adequate disease control.

Ridomil Gold/Copper has not been sufficiently tested to assure consistent product performance for all labeled uses when applied through chemigation systems. 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 should check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler or drip irrigation equipment.

Center Pivot Irrigation Equipment

Note: (1) Use only with drive systems, which provide uniform distribution. (2) Do not use end guns when chemigating Ridomil Gold/Copper through center pivot irrigation systems because of non-uniform 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 $\frac{1}{4}$ - $\frac{1}{2}$ inch of water over the area to be treated when the system and injection equipment is 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.

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4. Determine the amount of Ridomil Gold/Copper required to treat the area covered by the irrigation system.
5. Add the required number of Ridomil Gold/Copper soluble bags and sufficient water to meet the injection time requirements to the solution tank. (See **Mixing Instructions** section of this label.)
6. Make sure the system is fully charged with water before starting injection of the Ridomil Gold/Copper 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. Stop injection equipment after treatment is completed. Continue to operate the system until the Ridomil Gold/Copper solution has cleared the sprinkler head.
9. After using Ridomil Gold/Copper, immediately flush with water (within one hour) all irrigation systems and associated piping in a manner, which will not wash the product from the foliage and reduce disease control.

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/Copper required to treat the area covered by the irrigation system.
4. Add the required number of Ridomil Gold/Copper soluble bags into the same quantity of water used to calibrate the injection period. (See **Mixing Instructions** section of this label.)
5. Operate system at the same pressure and time interval established during the calibration.
6. Inject Ridomil Gold/Copper at the end of the irrigation cycle or as a separate application to maximize retention of the fungicide by the foliage.
7. Stop injection equipment after treatment is completed. Continue to operate the system until the Ridomil Gold/Copper solution has cleared the last sprinkler head.

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8. After using Ridomil Gold/Copper, immediately flush with water (within one hour) all irrigation systems and associated piping in a manner, which will not wash the product from the foliage and reduce disease control.

CARROTS AND RADISHES

Ridomil Gold/Copper will control foliar diseases caused by Oomycete fungi, including cavity spot on carrots and white rust on radishes. For season-long control of these diseases, a preplant or at-planting application of Ridomil Gold EC at 1-2 pts./acre (0.5-1 lb. a.i./acre) is recommended. (See the **Root and Tuber Vegetable** section of the Ridomil Gold EC label.)

Apply 2.0 lbs./acre of Ridomil Gold/Copper foliarly beginning 40-50 days after the Ridomil Gold EC at-planting application. Make 2-4 applications of Ridomil Gold/Copper on a 14-day schedule, depending on disease development.

Notes: (1) To avoid possible illegal residues, do not apply Ridomil Gold/Copper within 7 days of harvest. (2) You may make up to 4 applications of Ridomil Gold/Copper per crop.

CUCURBIT VEGETABLES

Ridomil Gold/Copper, when used as a foliar spray in a preventive disease control program, provides control of downy mildew of cucurbit vegetables.

Apply 2.0 lbs./acre of Ridomil Gold/Copper. Begin applications when conditions are favorable for disease, but before infection, and continue at 14-day intervals until the threat of disease is over. The full rate of a protectant fungicide should be applied between Ridomil Gold/Copper applications. Avoid late season applications when plants reach full maturity or begin senescence.

Notes: (1) To avoid possible illegal residues, do not apply Ridomil Gold/Copper within 5 days of harvest. (2) You may make up to 4 applications of a Ridomil Gold prepack (Ridomil Gold/Copper or Ridomil Gold/Bravo®) per crop.

GRAPES

Use Ridomil Gold/Copper as a foliar, post-bloom application for control of downy mildew of grapes caused by *Plasmopora viticola*.

Apply 2 lbs./acre of Ridomil Gold/Copper. Make up to 4 applications beginning before bloom; do not make an application within 66 days of harvest. For late season downy mildew control, apply other registered fungicides.

Notes: (1) To avoid possible illegal residues, do not apply within 66 days of harvest. (2) You may make up to 4 applications of Ridomil Gold/Copper per crop. (3) If other

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formulations of Ridomil Gold are applied, do not apply more than a total of 0.4 lbs. a.i./acre Ridomil Gold per crop per season when using a combination of formulations containing the Ridomil Gold active ingredient. (4) Do not use on copper sensitive varieties (see local state and extension recommendations for varietal selection).

ONIONS - DRY BULB*, GREEN**, AND ONIONS GROWN FOR SEED

*Includes garlic, onions (dry bulb), and shallots (dry bulb).

**Includes green onions, leeks, spring onions or scallions, Japanese bunching onions, green shallots, or green eschalots.

Ridomil Gold/Copper provides effective control of downy mildew caused by *Peronospora destructor* when used as a foliar spray in a preventive disease control program.

Apply 2 lbs./acre Ridomil Gold/Copper in sufficient water to obtain thorough coverage. Begin applications when conditions are favorable for disease, but before infection, and continue at 14-day intervals until the threat of disease is over. Use a suitable spreader-sticker at rates recommended on the product label.

Notes: (1) To avoid possible illegal residues, do not apply to dry bulb onions within 10 days of harvest and do not apply to green onions within 7 days of harvest. (2) You may make up to 4 applications of Ridomil Gold/Copper to dry bulb onions or seed onions. (3) You may make up to 3 applications of Ridomil Gold/Copper to green onions. (4) If Ridomil Gold EC was applied at-planting, do not exceed a total of 0.4 lbs. Ridomil Gold active ingredient per crop per season.

PEPPERS

For control of *Pythium* spp. and *Phytophthora capsici*, follow the treatment scheme below:

Apply Ridomil Gold EC to the soil at planting at 1 pt./acre (0.5 lb. a.i./acre) **followed by** one supplemental application of Ridomil Gold EC at 1 pt./acre (0.5 lb. a.i./acre) 30 days following the soil application **followed by** foliar applications of Ridomil Gold/Copper at 2.5 lbs./acre. Make 3-4 applications of Ridomil Gold/Copper at 10 to 14-day intervals.

Notes: (1) To avoid possible illegal residues, do not apply Ridomil Gold/Copper within 7 days of harvest. (2) You may make up to 4 applications of Ridomil Gold/Copper per crop. (3) Do not apply more than a total of 1.5 lbs. Ridomil Gold active ingredient per acre per crop.

POTATOES

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Apply Ridomil Gold/Copper as a foliar fungicide in a preventive disease control program for control of late blight caused by *Phytophthora infestans*, Pythium leak caused by *Pythium* spp., and pink rot caused by *Phytophthora erythroseptica*. Make applications of Ridomil Gold/Copper in sufficient water to obtain thorough coverage for ground applications and in a minimum of 5 gals. of water per acre for aerial applications.

Late Blight: Apply a tank mix of 2.0 lbs./acre of Ridomil Gold/Copper plus 0.8 lb. a.i./acre of maneb, mancozeb, metiram, or chlorothalonil. Begin preventive applications early in the season when conditions are favorable for disease (before infection), but no later than when the plant foliage meets within the row. Make up to 3 applications of the Ridomil Gold/Copper tank mixture at 14-day intervals. The full rate of a protectant fungicide should be applied between Ridomil Gold/Copper applications. Following the 3 Ridomil Gold/Copper applications, apply the full rate of a protectant fungicide on a weekly schedule through the remainder of the season.

Storage Rots: Pythium Leak (caused by *Pythium* spp.) and Pink Rot (caused by *Phytophthora erythroseptica*): For effective control of these storage rots, Ridomil Gold/Copper should be used in conjunction with other management practices such as crop rotation. Apply 2.0 lbs./acre of Ridomil Gold/Copper. Make the first application at flowering and another application 14 days later. If the field has a history of tuber disease problems, make a third application 14 days after the second application.

Note: If applications of Ridomil Gold/Copper are being made for late blight control that correspond to the timing of applications for storage rot control, additional applications for storage rot control are not needed.

Notes: (1) To avoid possible illegal residues, do not apply Ridomil Gold/Copper within 14 days of harvest. (2) You may make up to 3 applications of a Ridomil Gold prepack (Ridomil Gold/Copper, Ridomil Gold/Bravo, or Ridomil Gold MZ) per crop. (3) If conditions for late blight development are still favorable after making 3 applications of Ridomil Gold/Copper, use other fungicides registered for late blight control in potatoes.

SPINACH

Ridomil Gold/Copper will control white rust and downy mildew on spinach when applied foliarly following an at-planting application of Ridomil Gold EC at 1-2 pts./acre (0.5-1 lb. a.i./acre).

Apply 2.5 lbs./acre of Ridomil Gold/Copper 21 days after the Ridomil Gold EC at-planting application or immediately after each repeated cutting. Make 1 or 2 applications of Ridomil Gold/Copper at 14-day intervals, depending on cultural practices. Avoid late season applications when plants reach full maturity or begin senescence.

Notes: (1) To avoid possible illegal residues, do not apply Ridomil Gold/Copper within 21 days of harvest. (2) You may make up to 2 applications of Ridomil Gold/Copper per

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crop. (3) If Ridomil Gold/Copper use is planned, apply Ridomil Gold EC either preplant or at planting. **Do not make supplemental applications of Ridomil Gold EC.**

TOMATOES

Foliar applications of Ridomil Gold/Copper will control *Phytophthora* fruit rot (such as buckeye rot), and late blight when applied on a regular schedule. Make applications of Ridomil Gold/Copper in sufficient water to obtain thorough coverage for ground applications and in a **minimum of 5 gals.** of water per acre for aerial applications.

Apply a tank mix of 2.0 lbs./acre of Ridomil Gold/Copper plus 0.8 lb. a.i./acre of maneb or mancozeb. Begin preventive applications early in the season when conditions are favorable for disease (before infection). Make up to 3 applications of the Ridomil Gold/Copper tank mixture at 14-day intervals. The full rate of a protectant fungicide should be applied between Ridomil Gold/Copper applications. Following the 3 Ridomil Gold/Copper applications, apply the full rate of a protectant fungicide on a weekly schedule through the remainder of the season.

Notes: (1) To avoid possible illegal residues, do not apply Ridomil Gold/Copper within 14 days of harvest. (2) You may make up to 3 applications of Ridomil Gold/Copper per crop. (3) If conditions for late blight development are still favorable after making 3 applications of Ridomil Gold/Copper, use other fungicides registered for late blight control in tomatoes. (4) If other formulations containing the Ridomil Gold active ingredient are applied at any time throughout the season, do not exceed a total of 1.5 lbs. a.i./acre per crop.

Rotation (Plantback) Restrictions

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, with the exception of cereal grains. See the following list.

TROPICAL FRUIT

Papaya, Black Sapote, Star Apple, Canistel, Mamey Sapote, Mango, Sapodilla

Use Ridomil Gold Copper to aid in the control of *Phytophthora* blight caused by *Phytophthora palmivora* in nurseries, new plantings in the field and on bearing plants.

Apply 2-3 lbs./acre (1.3 to 1.95 lb. a.i./acre) of Ridomil Gold Copper as a trunk or foliar spray. Direct the spray to the trunk of the plant or to the fruit column on the trunk. Apply until the point of runoff. When applying to a fruit column use a minimum of 100 gallons of water per acre. Make up to 4 applications at approximately 21-day intervals. Do not apply within one day of harvest.

Do not apply Ridomil Gold Copper if Ridomil Gold® EC is used as a soil drench.

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Rotational Crop	Planting Time From Last Ridomil Gold/Copper Application
Alfalfa (including birdsfoot trefoil), Almonds, Apples, Asparagus, Avocados	0 days
Blueberries, Broccoli	
Cabbage, Cauliflower, Chinese Broccoli (gai lan, white flowering broccoli), Chinese Cabbage (tight-heading varieties only), Citrus, Cotton, Cranberries, Cucurbit Vegetables	
Deciduous Fruits and Nuts*	
Eggplant	
Garlic, Ginseng, Grapes	
Hops	
Leafy Vegetables (other than Brassica), Legume Vegetables (beans and peas - succulent and dried)	
Onions (dry bulb and seed only)	
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)	40 days
Corn	9 months
Crops Not Intended for Food or Feed	0 days
Other Crops Intended for Food or Feed	12 months

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

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