

PM 21 100-658

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Gregory R. Watson, Ph.D.  
 Ciba Crop Protection  
 Ciba-Geigy Corporation  
 P. O. Box 18300  
 Greensboro, NC 27419-8300

APR 21 1995

Dear Dr. Watson:

Subject: Ridomil® Bravo® 81W Fungicide (EPA Reg. No. 100-658)  
 Label Amendment  
 Your Correspondence of November 23, 1994

On November 23, 1994, you submitted an amendment request for the addition of carrot directions for use, adjustment of dry bulb and green onion listings per change in 40 CFR 180.1(h), replacement of "resistance" with "insensitivity", and other administrative amendments to the Ridomil® Bravo® 81W label. The labeling, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration or reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

A stamped copy of the label is enclosed for your records. Should you have any questions or concerns, please call Kathryn Scanlon on (703) 305-7382.

Sincerely Yours,



Connie B. Welch  
 Product Manager (21)  
 Fungicide-Herbicide Branch

7505C:K.Scanlon:ks:04/12/95:RIDBRALB.LTR

CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	K. Scanlon							
DATE ▶	Apr 12, 1995							

1919

1995  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-658

WPS  
WATER SOLUBLE BAG

RIDOMIL®/BRAVO® 81W

FUNGICIDE

For the control of certain diseases  
in carrots, broccoli, cabbage, cauliflower,  
cucurbit vegetables, onions, potatoes, and tomatoes.

Active Ingredients:

Metalaxyl: N-(2,6-dimethylphenyl)- N-(methoxyacetyl)alanine methyl ester .....	9.0%
Chlorothalonil: Tetrachloroisophthalonitrile.....	72.0%
<u>Inert Ingredients:</u>	<u>19.0%</u>
Total:	100.0%

Ridomil/Bravo 81W is a wettable powder.

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.)

Statement of Practical Treatment

If in eyes: Flush with plenty of water and get medical attention.

If swallowed: Induce vomiting by touching back of throat with finger. Drink promptly a large quantity of milk, egg whites, or gelatin solution. If none of these are available, drink large quantities of water. Avoid alcohol. Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

If on skin: Wash promptly with plenty of soap and water. Rinse thoroughly. Get medical attention.

Continued ...2

**Note to Physician**

If swallowed, probable mucosal damage may contraindicate the use of gastric lavage.

If in eyes, specialized ophthalmologic attention may be required.

See additional precautionary statements on left side of container.

See directions for use on right side of container.

EPA Reg. No. 100-658

EPA Est. 5905-GA-01<sup>n</sup> (superscript is first letter of lot number on bag)

EPA Est. 10163-AZ-1<sup>f</sup>

This outer protective container contains Ridomil/Bravo 81W 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.

**Water Soluble Pouch**

Five Pounds  
Net Weight

Ten Pounds  
Net Weight

**DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY**

**IMPORTANT:** Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

**Conditions of Sale and Warranty**

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty.** In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

**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.

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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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

**General Information**

Ridomil/Bravo 81W contains 9% of the active ingredient metalaxyl and 72% of the active ingredient chlorothalonil. Metalaxyl is a systemic fungicide that provides control of downy mildew and late blight diseases of selected crops. Chlorothalonil is a broad-spectrum protectant fungicide that controls many diseases of vegetables.

**Note:** Metalaxyl is a systemic fungicide having a specific mode of action subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore, Ciba-Geigy cannot assume liability for crop damage resulting from insensitive strains of fungi. If treatment is not effective following use of Ridomil/Bravo 81W as recommended, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of a metalaxyl insensitive strain of fungi, neither Ridomil/Bravo 81W 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, OR IN BEDDING PLANT STRUCTURES.**

**Mixing Instructions**

Ridomil/Bravo 81W is an effective fungicide when used according to label directions for control of a broad spectrum of plant diseases. Thorough, uniform coverage is essential for disease control. 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 maintain uniformity of the spray mixture. Maintain maximum agitation throughout the spraying operation. **Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.**

Amount of water needed per acre will vary with crop and amount of plant growth. Apply in a minimum of 20 gals./A for dilute sprays and 5 gals./A for concentrate ground sprays and aerial applications.

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

**Precaution:** Water soluble bags of Ridomil/Bravo 81W must be completely dissolved and dispersed in plain water before any other tank mix partner, including micronutrients or other liquid or dry fertilizers, are added to the spray 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.

**Ridomil/Bravo 81W Alone:** Add 2/3 of the required amount of plain water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Ridomil/Bravo 81W into the tank all at once. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the pouches have dissolved, and the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**Ridomil/Bravo 81W + Tank Mixtures:** Ridomil/Bravo 81W is usually compatible with most commonly used insecticides, fungicides, and spray adjuvants. When using Ridomil/Bravo 81W in a tank mixture with other pesticides, observe the most restrictive label limitations and precautions of the products being used.

Add 2/3 of the required amount of plain water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Ridomil/Bravo 81W into the tank all at once. Continue agitation while adding the remainder of the water. Allow the bags of Ridomil/Bravo 81W to dissolve and the product to completely disperse into the mix water. Then add the desired amount of products recommended for tank mixture and allow them to become completely dispersed. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied.

#### **Preharvest Intervals**

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

#### **Application Through Irrigation Systems**

Ridomil/Bravo 81W alone or in combination with other fungicides which are registered for sprinkler irrigation 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 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.

### **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 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 2 1/2 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.
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 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/Bravo 81W must be applied on the schedule specified 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.

With the exception of potatoes, Ridomil/Bravo 81W 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 ssprinkler irrigation equipment. Users should check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

#### **Center Pivot Irrigation Equipment**

**Notes:** (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when chemigating Ridomil/Bravo 81W through center pivot systems because of non-uniform application.

1. Determine the size of the area to be treated.
2. Determine the time required to apply 1/4-1/2 inch 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/Bravo 81W required to treat the area covered by the irrigation system.
5. Add the required number of Ridomil/Bravo 81W 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/Bravo 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 system until the Ridomil/Bravo 81W solution has cleared the 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/Bravo 81W required to treat the area covered by the irrigation system.
4. Add the required number of Ridomil/Bravo 81W 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/Bravo 81W 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/Bravo 81W solution has cleared the last sprinkler head.

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**Carrots**

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Ridomil/Bravo 81W, when used as a foliar spray in a preventive disease control program, provides effective control of cavity spot, Cercospora blight (early), and Alternaria blight (late). For season-long control of cavity spot, a preplant or at-planting application of Ridomil 2E or Ridomil 50W is recommended. (See the Root and Tuber Vegetable section of the Ridomil 2E or Ridomil 50W label for use directions.)

Apply 1 1/2-2 lbs. of Ridomil/Bravo 81W per acre beginning 40-50 days after the Ridomil 2E or Ridomil 50W at-planting application. Make 2-4 applications of Ridomil/Bravo 81W on a 14-day schedule.

Note: (1) To avoid possible illegal residues, do not apply Ridomil/Bravo 81W within 7 days of harvest.

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**Cole Crops (Broccoli, Cabbage, and Cauliflower)**

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\*Broccoli, Chinese broccoli (gai lon, white flowering broccoli), cabbage, Chinese cabbage (tight-heading varieties only), and cauliflower only.

Ridomil/Bravo 81W, when used as a foliar application in a preventive disease control program, provides effective control of downy mildew and Alternaria leaf spot.

**Downy Mildew:** Apply 1 1/2 - 2 lbs./A. 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 the higher rate under severe disease pressure.

**Alternaria Leaf Spot:** Apply 1 1/2-2 lbs./A. Begin applications when conditions are favorable for disease, but before infection, and continue at 14-day intervals until threat of disease is over. Under severe disease pressure, use other effective EPA-registered fungicides according to label directions between the Ridomil/Bravo 81W sprays.

**Notes:** (1) To avoid possible illegal residues, do not apply within 7 days of harvest. (2) You may make up to 4 applications of Ridomil/Bravo 81W per crop.

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**Cucurbit Vegetables\***

\*Cucumber, cantaloupe, casaba, crenshaw, honeydew melon, honey balls, muskmelon, Persian melon, watermelon, pumpkin, summer squash, winter squash, and cucurbit hybrids only.

Ridomil/Bravo 81W, when used as a foliar spray in a preventive disease control program, provides effective control of many diseases of cucurbit vegetables. Avoid late season applications when plants reach full maturity or begin senescence.

**Downy Mildew:** Apply 1 1/2 - 2 lbs./A. 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 the higher rate under severe disease pressure.

**Anthracnose, Cercospora Leaf Spot, Gummy Stem Blight, Leaf Blight, and Scab:** Apply 2-3 lbs./A. Begin applications when conditions are favorable for disease, but before infection, and continue at 10 to 14-day intervals. Under severe disease pressure, alternate Ridomil/Bravo 81W sprays with other effective EPA-registered fungicides every 7 days.

**Note:** You may make up to 4 applications of Ridomil/Bravo 81W per crop.

**Bulb Vegetables Including Dry Bulb Onions\*, Green Onions\*\*, 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/Bravo 81W, when used as a foliar spray in a preventive disease control program, provides effective control of downy mildew, Botrytis leaf blight and purple blotch.

**Downy Mildew:** Apply 1 1/2 - 2 lbs./A. 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 compatible spreader-sticker at rates recommended on the product label. Use the higher rate under severe disease pressure.

**Botrytis Leaf Blight (Blast) and Purple Blotch:** Apply 2 lbs./A on a 14-day schedule and apply other effective EPA-

registered fungicides between the Ridomil/Bravo 81W sprays; or apply 2 lbs./A of Ridomil/Bravo 81W on a 7-day schedule.

**Notes:** (1) To avoid possible illegal residues, do not apply to dry bulb onions within 7 days of harvest or to green onions within 21 days of harvest. (2) You may make up to 4 applications of Ridomil/Bravo 81W to dry bulb or seed onions. (3) You may make up to 3 applications of Ridomil/Bravo 81W to green onions. If conditions for disease development are still favorable after making 3 applications of Ridomil/Bravo 81W, use other fungicides registered for disease control in green onions.

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### Potatoes

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Ridomil/Bravo 81W, when used as a foliar application in a preventive disease control program, will provide effective control of late blight and tuber rot caused by *Phytophthora infestans*, Pythium leak caused by *Pythium* spp., and pink rot caused by *Phytophthora erythroseptica*. Make applications of Ridomil/Bravo 81W in sufficient water to obtain thorough coverage for ground applications and in a minimum of 5 gals. of water per acre for aerial applications.

It is recommended that this product be used within an Integrated Pest Management Program. Also, vine-kill should occur 14 days before harvest.

**Late Blight and Early Blight:** Apply 2.0 lbs. of Ridomil/Bravo 81W per acre. 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 uniformly across the field. In states other than FL, make up to 3 applications of Ridomil/Bravo 81W at 14-day intervals. In FL only, make up to 4 applications at 14-day intervals. The labelled rate of a protectant fungicide should be applied between Ridomil/Bravo 81W applications. Following the 3 or 4 Ridomil/Bravo 81W applications, apply the labelled rate of a protectant fungicide on a weekly schedule through the remainder of the season.

**Tuber Rot (caused by *Phytophthora infestans*), Pythium Leak (caused by *Pythium* spp.) and Pink Rot (caused by *Phytophthora erythroseptica*):** For effective control of these storage rots, Ridomil/Bravo 81W should be used in conjunction with other management practices such as crop rotation. Apply 2.0 lbs. of Ridomil/Bravo 81W per acre. Make the first application at flowering and another one 14 days later. If the field has a history of tuber disease problems, make a third application 14 days after the second application. If late blight is present, refer to the treatment schedule in the late blight section of this label. Excessive tuber bruising or wounding during harvest will

reduce suberization and increase the chances for development of storage disease problems.

**Note:** If applications of Ridomil/Bravo 81W are being made for late blight control that correspond to the timing of applications for tuber disease control, additional applications for tuber disease control are not needed.

**Notes:** (1) To avoid possible illegal residues, do not apply within 14 days of harvest. (2) In states other than FL, you may make up to 3 applications of Ridomil/Bravo 81W per crop. In FL only, you may make up to 4 applications per crop. (3) If conditions for late blight development are still favorable after making 3 applications of Ridomil/Bravo 81W, use other fungicides registered for late blight control in potatoes.

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### Tomatoes

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Ridomil/Bravo 81W, when used as a foliar spray in a preventive disease control program, provides effective control of several tomato diseases. Make applications of Ridomil/Bravo 81W 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 and Fruit Rot Caused by *Phytophthora* spp:** Apply 2.0 lbs. of Ridomil/Bravo 81W per acre. Begin preventive applications early in the season when conditions are favorable for disease (before infection). In states other than FL, make up to 3 applications at 14-day intervals. In FL only, make up to 4 applications at 14-day intervals. The labelled rate of a protectant fungicide should be applied between Ridomil/Bravo 81W applications. Following the 3 or 4 Ridomil/Bravo 81W applications, apply the labelled rate of a protectant fungicide on a weekly schedule through the remainder of the season.

**Early Blight, Gray Leaf Spot, Gray Leaf Mold, and Septoria Leaf Spot:** Apply 2.0 lbs. of Ridomil/Bravo 81W per acre. Begin preventive applications early in the season when conditions are favorable for disease (before infection). In states other than FL, make up to 3 applications at 14-day intervals. In FL only, make up to 4 applications at 14-day intervals. The labelled rate of a protectant fungicide should be applied between Ridomil/Bravo 81W applications. Following the 3 or 4 Ridomil/Bravo 81W applications, apply the labelled rate of a protectant fungicide on a weekly schedule through the remainder of the season.

**Anthracnose, Alternaria Fruit Rot (Black Mold), Rhizoctonia Fruit Rot, and Botrytis Gray Mold:** Apply 2.0 to 3.0 lbs. of Ridomil/Bravo 81W per acre. Begin preventive applications early in the season when conditions are favorable for

disease (before infection). In states other than FL, make up to 3 applications at 14-day intervals. In FL only, make up to 4 applications at 14-day intervals. The labelled rate of a protectant fungicide should be applied between Ridomil/Bravo 81W applications. Following the 3 or 4 Ridomil/Bravo 81W applications, apply the labelled rate of a protectant fungicide on a weekly schedule through the remainder of the season.

**Note:** (1) To avoid possible illegal residues, do not apply within 14 days of harvest. (2) In states other than FL, you make make up to 3 applications of Ridomil/Bravo 81W per crop. In FL only, you may make up to 4 applications per crop.

**Rotation (Plant Back) Restrictions**

Do not plant any crop which is not registered for use with metalaxyl in metalaxyl-treated soil for a period of 12 months. See following list.

**Rotation (Plant Back) Restrictions**

<u>Rotation Crop</u>	<u>Planting Time From Last Application of Ridomil/Bravo 81W</u>
Alfalfa (including birdsfoot trefoil)	-0- days
Almonds	-0- days
Apples*	-0- days
Asparagus	-0- days
Avocadoes	-0- days
Blueberries	-0- days
Broccoli	-0- days
Cabbage	-0- days
Carrots	-0- days
Cauliflower	-0- days
Chinese Broccoli (gai lon, white flowering broccoli)	-0- days
Chinese Cabbage (tight-heading varieties only)	-0- days
Cereal Grains (except corn)	40 days
Citrus	-0- days
Corn	9 months
Cotton	-0- days
Cranberries	-0- days
Cucurbit Vegetables	-0- days
Deciduous Fruits and Nuts*	-0- days
Eggplant	-0- days
Ginseng	-0- days
Grapes	-0- days
Grass Grown for Seed	-0- days
Hops	-0- days
Legume Vegetables	-0- days

Leafy Vegetables	-0- days
(except Brassica vegetables)	
Onions (Dry Bulb, Green, and Seed)	-0- days
Papaya	-0- days
Peanuts	-0- days
Peppers	-0- days
Pineapples	-0- days
Potatoes	-0- days
Raspberries	-0- days
Root and Tuber Vegetables	-0- days
Soybeans	-0- days
Spinach	-0- days
Stone Fruits	-0- days
Strawberries	-0- days
Sugar Beets	-0- days
Tobacco	-0- days
Tomatoes	-0- days
Walnuts	-0- days
Crops Not For Food or Feed	-0- days
All Other Crops For Food or Feed	12 months

\*These crops may be planted immediately following last application of Ridomil/Bravo 81W, provided they will not bear harvestable fruit within 12 months.

**Storage and Disposal**

**Storage** - Store in a cool, dry place. Do not store this product under wet conditions. Handle outer container carefully when stored at temperatures less than 50°F to avoid breakage of inner soluble bag.

**Pesticide Disposal**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this pesticide are acutely hazardous. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures.

For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

**Container Disposal**

Do not reuse outer container. Dispose of empty outer container in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. Stay out of smoke from burning bags.



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 procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**DANGER/PELIGRO**

Corrosive. Causes irreversible eye damage. May be fatal if swallowed or inhaled. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist.

**Personal Protective Equipment**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

For exposure in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

For exposure outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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 170.24C(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 product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply when weather conditions favor drift from treated area. Do not contaminate water when disposing of equipment wash waters or rinsate.

Ridomil® trademark of Ciba-Geigy Corporation  
U.S. Patent 4,151,299

Bravo® trademark of ISK Biotech

Solubor® trademark of United States Borax & Chemical Corporation

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Ciba Crop Protection  
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- Revised June 15, 1980
- Revised October 1987 -  
Chemigation
- Revised February 8, 1988 -  
Administrative Amendments
- Revised October 12, 1988  
water soluble bag
- Revised September 13, 1989  
Metalaxyl FRSTR labeling.
- Revised December 13, 1990  
New graphics, new est. #
- Revised August 26, 1992  
Bravo reduced plantbacks,  
minor adm. changes
- Revised August 1993 -  
WPS
- Revised July 27, 1994  
Mixing instructions, onion  
groups, plantbacks revised,  
carrots added, reduced

applications potatoes and  
tomatoes

CGA 80L5D 093 (WPS)

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