# Ridomil® Bravo®81W

# Fungicide

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

Active Ingredients:

Metalaxyl: N-(2.6-dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester...9.0% Chlorothalonil: Tetrachlorosophthalonitrile ....72.0%

Inert Ingredients:

19.0°。

Total:

100.0°s

Ridomil Bravo 81W is a wettable powder.

EPA Reg. No. 100-658

Five Pounds
Net Weight

Keep Out of Reach of Children.

# DANGER PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

See additional precautionary statements on back of bag.

Statement of Practical Treatment

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See directions for use on back of bag.

CIBA-GEIGY

# Ridomil\*/Bravo\* 81W

# DIRECTIONS FOR USE AND CONDITIONS OF SAILE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product

### 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 lit 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 duty 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

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

Do not apply this product in such a manner as to directly, or through drift, expose workers or other persons, except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

## **Reentry Statements**

Do not enter treated areas without protective clothing until sprays have dried

Because certain states may—quire more restrictive reentry intervals for various crops freated with this product, consult your State Department of Agriculture for firther information.

Written or oral warnings must be given to workers who are expected to be in the treated area or in an area about to be treated with this product. Oral warnings must be given which inform workers of areas or fields that may not be entered without specific protective clothing until splays have died and appropriate actions to take in case of accidental exposure, as described under **Precautionary Statements** on the back of this label. When oral warnings are given warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information. DANGER Area treated with Ridomil Bravo 81W on (date of application). Do not enter without appropriate protective clothing until sprays have dired. Flush eyes or skin with plenty of water. Call a physician it creation persists. Remove contaminated clothing and wash before reuse.

# 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 protectan fungicide that controls many diseases of vegetables.

Note: Metalaxyl is a systemic fungicide having a specific mode of action and could be subject to development of resistant strains of fungi. Development of resistance cannot be predicted. Therefore, CIBA-GEIGY cannot assume liability for crop damage resulting from resistant strains of fungi. If treatment is not effective following the use of Ridomili Bravo 81W as recommended, attesistant strain of fungi may be present. If the treatment is ineffective due to the presence of a metalaxyl resistant strain of fungi, neither Ridomili 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 Exp Friment Station or Extension Service Specialist for guidance in your particular crop and disease control situation.

# 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. Ridomil Bravo 81W should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of Ridomil Bravo 81W with water in a clean container and add to the spray tank as follows. (1) Add ½ - ½ of the required amount of water to the spray tank. (2) Add the proper amount of Ridomil Bravo 81W, then add the rest of the water. (3) Use a pump with capacity to maintain 35-40 psi at nozzles, and provide sufficient agitation in tank to keep the mixture in suspension. Do this by recirculating 20 gal. min 100 gal. tank size through correctly positioned sparger tubes or jets.

Use screens to protect the pump and to prevent nozzles from clogging Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer's recommendations.

To assure compatibility of Ridomil Bravo 8. I with other products it is being mixed with, i.e., pesticides, surfactants, or fertilizers, pour the products into a container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed or can be remixed readily, the mixture should be considered compatible.

# Application Instructions

Apply Ridomil Bravo 81W in sufficient water to obtain adequate coverage of foliage. Gallonage needed will vary with crop and amount of plant growth. Spray volume usually will range from 20 to 150 gallons. A for dilute sprays and 5 to 10 gallons. 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.

When making foliar applications of Ridomil Bravo 81W in cucurbit vegetables, onions, broccoli, cabbage and cauliflower, do not apply more than 11 lbs. per crop.

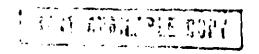
# **Application Through Irrigation Systems**

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 or moving wheel irrigation systems. Do not apply this product through any other type of irrigation system. Or prinjury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution, if treated water. If you have questions about calibration, you should contact State Extension. Service specialists, equipment manufacturers or other explicts. Do not connect an irrigation system (including a canhouse 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 chemiquition 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 feet c) sensitive areas such its residential areas, labor camps, businesses, day cam renters, hospitals, in patient clinics, nursing homes or any public aleas 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 401 courses or retail greenhouses.



# Ridomil\*/Bravo\* 81W

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 trie word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

### 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 nor mally closed, solenoid-operated valve located on the infake 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 ; ositive displacement injection pump (e.g., diaphragin 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, Ridomif Bravo 8tW has not been sufficiently fested 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 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 (Use only with drive systems which provide uniform water distribution)

- 1. Determine the size of the area to be treated
- 2 Determine the time required to ar ply ¼ inch water over the area to be treated when the system and injection equipment is operated at normal pressures recommended by the equipment manufacturer. Bun 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 amount of Ridomil Bravo 81W and sufficient water to meet the injection time requirements to the solution tank.
- 6. Maintain constant solution tank agitation during the injection period.
- 7 Stop injection equipment after treatment is completed. Continue to operate system until the Ridomil Bravo 81W solution has cleared the sprinkler head.

## Solid Set and Moving Wheel Irrigation Equipment

- 1. Determine the acreage covered by the sprinklers
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30 minute interval

- 3 Determine the amount of Ridomil-Bravo 81W required to treat the area covered by the irrigation system
- 4 Add the required amount of Ridomii Bravo 81W into the same quantity of water used to calibrate the injection period.
- 5 Operate system at the same pressure and time interval estriblished 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.

# Cole Crops (Broccoli, Cabbage, and Cauliflower)

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

Downy Mildew: Apply 1½-2 lbs. A in sufficient water to obtain thorough coverage. Begin applications when the plants start emerging in direct seeded crops, after transplants are set in the field, or when conditions are favorable for disease development. Continue applications at 14-day intervals until the threat of disease is over

Alternaria Leaf Spot (Southeastern States Only): Apply 1½ lbs. A in sufficient water to obtain thorough coverage. Begin applications when the plants start emerging in direct seeded crops, after transplants are set in the field, or when conditions are favorable for disease development. Continue applications at 7-10 day intervals. Other effective alternaria fungicides can also be alternated with Ridomil Bravo 81W on a 7-10 day schedule.

Note: (1) Do not apply within 7 days of harvest or illegal residues may result

## Cucurbit Vegetables (Cucumbers, Melons and Squash)

Ridomil Bravo 81W provides effective control of many diseases of cucurbit vegetables when used as a foliar spray in a preventive disease control program

Downy Mildew: Apply 1½-2 lbs. A in sufficient water to obtain thorough coverage. Begin applications when plants are in the first true leaf stage or when conditions are favorable for disease development and continue at 14-day intervals until the threat of disease is over. Under severe disease pressure, use the higher rate.

Anthracnose, Cercospora Leaf Spot, Gummy Stem Blight, Leaf Blight and Scab: Apply 2 lbs. A in sufficient water to obtain thorough coverage. Begin applications when plants are in the first true leaf stage or when conditions are favorable for disease development and continue at 14 day intervals until the threat of disease is over. Under severe disease pressure, shorten the spray interval to 7 days and use 1-11 clbs. A or use another EPA registered fungicide between the Ridomil Bravo 81W applications.

Note: Do not make the fast application within 5 days of harvest, or illegal residues may result.

# Onions (Dry Bulb, Seed and Green Onions)

Ridomil Bravo 81W provides effective control of many onion diseases when used as a foliar spray in a preventive disease control program

**Downy Mildew:** Apply 115-2 lbs. A in sufficient water to obtain thorough coverage. Begin applications when conditions are favorable for disease development and continue at 14-day intervals until the threat of disease is over. Use a compatible spread in sticker at rates recontinuousced on the product label. Under severe disease pressure, use the higher rate.

Botrytis Leaf Blight (Blast) and Purple Blotch: Apply 2 ths. Alonia 14 day schedule and apply other registured a factive fungicides between the Bidomil Bravo 81W sprays, or apply 2 lbs. Alof Ridomil Bravo 81W on a 7-day schedule.

Notes: (1) Do not apply to sweet Spar ich, on clis if the make icceived or will receive additional chlorothalonil applications. (2) Do not apply to dry bulb onions within 7 days of harvest or to given onionic within, 14 days of harvest and (3) Do not apply more than 4 times per year on order onions or illegal residues may result. If more than 14 days remain before harvest of green onions after 4 applications of Ridomil Bravo 81W it is recommended that another labeled fungicide be used to complete the application season.

## Potatoes

Ridomil Bravo 81W, when used as a foliar spray in a preventative disease control program, provides effective control of late blight, early blight and Botrytis vine rot. Two to three applications will provide control of tuber rot in the field caused by *Phytophthora* spp. and in storage rot caused by *Pythium* and *Phytophthora* spp.



# Ridomil®/Bravo® 81W

Late Blight: Apply 1½-2 lbs./A in sufficient water to obtain thorough coverage. Start applications when conditions are favorable for disease, but before infection occurs, and continue at 14-day intervals until threat of disease is over.

Tuber Rot and Storage Rot (Phytophthora and Pythium spp.) Apply 2 lbs. A in sufficient water to obtain thorough coverage. Make one application at flowering and another 14 days later. If the field has a history of tuber rot or if foliar infections are present, make a third application 14 days after the second.

Early Blight and Botrytis Vine Rot: Apply 1½-2 lbs. A in sufficient water to obtain thorough coverage. Begin applications when plants are six inches high or when conditions are favorable for disease and continue at 14-day intervals until the threat of disease is over. Under severe disease pressure, use 1½ lbs. A on a 7-day schedule or use other effective EPA-registered fungicides between the Ridomii Brato BIW sprays.

Note: Do not apply within 7 days of harvest, or illegal residues may result

### Tomatoes

Ridomil Bravo 81W, when used as a foliar spray in a preventive disease control program, provides effective control of several tomato diseases

Late Blight: Apply 1½-2 lbs. A 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 threat of disease is over

Early Blight, Anthracnose and Gray Leaf Spot: Apply 2 lbs. A in sufficient water to obtain thorough coverage. Begin applications when conditions are favorable for disease development and continue at 14-day intervals. Under heavy disease pressure, use other effective EPA-registered fungicides between the Ridomil. Bravo 81W sprays.

### **Rotational Crops**

Any crop on this label may be planted during the fall following application of Ridomil. Bravo 81W. Small grain cover crops may also be planted the fall following application, provided they are plowed down and not used for food or feed. Corn, root crops, or any crop on this label may be planted the year following treatment. Other crops may be planted 18 months following application.

# Storage and Disposal

### Pesticide

Store in a dry place. 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 tabel 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

Completely empty bag into application equipment. Dispose of empty bag 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 (919) 292-7100 day or night.

# **Precautionary Statements**

Hazards to Humans and Domestic Animals

DANGER

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. Wear goggles or face shield when handling this product. Do not breathe spray mist. Wear a mask or a jointly approved pesticide respirator (by the Mining Enforcement and Mining Administration and the National Institute for Occupational Safety and Health) when handling this product. Wash thoroughly with soap and water after ner dling and before eating drinking, or using tobacho. Remove contaminated clothing and wash before reuse.

### Environmental Hazards

This product is toxic to fish. Do not apply directly to water. Apply only as specified on this label. Do not apply when weather conditions favor drift from treated area. Do not contaminate water when cleaning equipment or disposing of wastes.

Ridomit\* trademark of CIBA - GEIGY Corporation for metals, xyl Bravo\* trademark of Fermenta Plant Protection Company for chlorothalonil

1987 CIBA - GEIGY Corporation

Agricultural Division
CIBA - GEIGY Corporation
Greensboro, North Carolina 27419
CGA 80L2A 107

Ridomil®/Bravo® 81W

Fungicide

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

# ACCEPTED

OCT 6 198**7** 

Under the Federal Insecticide, Fungicide, and Hodenticide Act, as amended, for the posticide tegistered under EPA Reg. No. 100-655

Active Ingredients:

Metalaxyl: N-(2,6-dimethylphenyl)-

N-(methoxyacetyl)alanine methyl ester ...... 9.0% Chlorothalonil: Tetrachloroisophthalonitrile...........72.0% Inert Ingredients: Total: 100.0%

●1987 CIBA-GEIGY Corporation

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Keep Out of Reach of Children

DANGER/PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

# 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.

Continued ... 2

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

# 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 back of bag.

See directions for use on back of bag.

EPA Reg. No. 100-658

Five Pounds - Net Weight

# DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

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Written or oral warnings must be given to workers who are expected to be in the treated area or in an area about to be treated with this product. Oral warnings must be given which inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried and appropriate actions to take in case of accidental exposure, as described under Precautionary Statements on the back of this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "DANGER. Area treated with Ridomil/Bravo 81W on (date of application). Do not enter without appropriate protective clothing until sprays have dried. Flush eyes or skin with plenty of water. Call a physician if irritation persists. Remove contaminated clothing and wash before reuse."

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Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should

be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer's recommendations.

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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.

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Center-Pivot Irrigation Equipment (Use only with drive systems which provide uniform water distribution):

- 1. Determine the size of the area to be treated.
- 2. Determine the time required to apply 1/4 inch water over the area to be treated when the system and injection equipment is operated at normal pressures 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 21W required to treat the area covered by the irrigation system.
- 5. Add the required amount of Ridomil/Bravo 81W and sufficient water to meet the injection time requirements to the solution tank.
- 6. Maintain constant solution tank agitation during the injection period.

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7. Stop injection equipment after treatment is completed. Continue to operate system until the Ridomil/Bravo 81W solution has cleared the sprinkler head.

# Solid Set and Moving Wheel Irrigation Equipment

- 1. Determine the acreage covered by the sprinklers.
- 2. Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30 minute interval.
- 3. Determine the amount of Ridomil/Bravo 81W required to treat the area covered by the irrigation system.
- 4. Add the required amount of Ridomil/Bravo 81W into the same quantity of water used to calibrate the injection period.
- 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.

# Cole Crops (Broccoli, Cabbage, and Cauliflower)

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

Downy Mildew: Apply 1 1/2 - 2 lbs./A in sufficient water to obtain thorough coverage. Begin applications when the plants start emerging in direct seeded crops, after transplants are set in the field, or when conditions are favorable for disease development. Continue applications at 14-day intervals until the threat of disease is over.

Alternaria Leaf Spot (Southeastern States Only): Apply 1 1/2 lbs./A in sufficient water to obtain thorough coverage. Begin applications when the plants start emerging in direct seeded crops, after transplants are set in the field, or when conditions are favorable for disease development. Continuations at 7-10 day intervals. Other effective alternaria fungicides can also be alternated with Ridomil/Bravo 81W on a 7-10 day schedule.

Note: 1) Do not apply within 7 days of harvest or illegal residues may result.

# Cucurbit Vegetables (Cucumbers, Melons and Squash)

Ridomil/Bravo 81W provides effective control of many diseases of cucurbit vegetables when used as a foliar spray in a preventive disease control program.

Downy Mildew: Apply 1 1/2 - 2 lbs./A in sufficient water to obtain thorough coverage. Begin applications when plants are in the first true leaf stage or when conditions are favorable for disease development and continue at 14-day intervals until the threat of disease is over. Under severe disease pressure, use the higher rate.

Anthracnose, Cercospora Leaf Spot, Gummy Stem Blight, Leaf Blight and Scab: Apply 2 lbs./A in sufficient water to obtain thorough coverage. Begin applications when plants are in the first true leaf stage or when conditions are favorable for disease development and continue at 14-day intervals until the threat of disease is over. Under severe disease pressure, shorten the spray interval to 7 days and use 1 - 1 1/2 lbs./A, or use another EPA-registered fungicide between the Ridomil/Bravo 81W applications.

Note: Do not make the last application within 5 days of harvest, or illegal residues may result.

# Onions (Dry Bulb, Seed and Green Onions)

Ridomil/Bravo 81W provides effective control of many onion diseases when used as a foliar spray in a preventive disease control program.

Downy Mildew: Apply 1 1/2 - 2 lbs./A in sufficient water to obtain thorough coverage. Begin applications when conditions are favorable for disease development 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. Under severe disease pressure, use the higher rate.

Botrytis Leaf Blight (Blast) and Purple Blotch: Apply 2 lbs./A on a 14-day schedule and apply other registered effective fungicides between the Ridomil/Bravo 81W sprays; or apply 2 lbs./A of Ridomil/Bravo 81W on a 7-day schedule.

Notes: 1) Do not apply to sweet Spanish onions if they have received or will receive additional chlorothalonil applications: 2) Do not apply to dry bulb onions within 7 days of harvest or to green onions within 14 days of harvest and 3) Do not apply more than 4 times per year on green onions or illegal residues may result. If more than 14 days remain before harvest of green onions after 4 applications of Ridomil/Bravo 81W, it is recommended that another labeled fungicide be used to complete the application season.

# Potatoes

Ridomil/Bravo 81W, when used as a foliar spray in a preventative disease control program, provides effective control of late blight, early blight and Botrytis vine rot. Two to three applications will provide control of tuber rot in the field caused by Phytophthora spp. and in storage rot caused by Pythium and Phytophthora spp.

Late Blight: Apply 1 1/2 - 2 lbs./A in sufficient water to obtain thorough coverage. Start applications when conditions are favorable for disease, but before infection occurs, and continue at 14-day intervals until threat of disease is over.

Tuber Rot and Storage Rot (Phytophthora and Pythium spp.):
Apply 2 lbs./A in sufficient water to obtain thorough coverage.
Make one application at flowering and another 14 days later. If
the field has a history of tuber rot or if foliar infections are
present, make a third application 14 days after the second.

Early Blight and Botrytis Vine Rot: Apply 1 1/2 - 2 lbs./A in sufficient water to obtain thorough coverage. Begin applications when plants are six inches high or when conditions are favorable for disease and continue at 14-day intervals until the threat of disease is over. Under severe disease pressure, use 1 !/2 lbs./A on a 7-day schedule or use other effective EPA-registered fungicides between the Ridomil/Bravo 81W sprays.

Note: Do not apply within 7 days of harvest, or illegal residues may result.

# Tomatoes

Ridomil/Bravo 81W, when used as a foliar spray in a preventive disease control program, provides effective control of several tomato diseases.

Late Blight: Apply 1 1/2 - 2 lbs./A 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 threat of disease is over.

Early Blight, Anthracnose and Gray Leaf Spot: Apply 2 lbs./A in sufficient water to obtain thorough coverage. Begin applications when conditions are favorable for disease development and continue at 14-day intervals. Under heavy disease pressure, use other effective EPA-registered fungicides between the Ridomil/Bravo 81W sprays.

# Rotational Crops

Any crop on this label may be planted during the fall following application of Ridomil/Bravo 81W. Small grain cover crops may also be planted the fall following application, provided they are plowed down and not used for food or feed. Corn, root crops, or any crop on this label may be planted the year following treatment. Other crops may be planted 18 months following application.

# Storage and Disposal

# Pesticide

Store in a dry place. 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

Completely empty bag into application equipment. Dispose of empty bag 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 (919)292-7100 day or night.

# Precautionary Statements

# Hazards to Humans and Domestic Animals

### DANGER

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. Wear goggles or face shield when handling this product. Do not breathe spray mist. Wear a mask or a jointly approved pesticide respirator (by the Mining Enforcement and Mining Administration and the National Institute for Occupational Safety and Health) when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

# Environmental Hazards

This product is toxic to fish. Do not apply directly to water. Apply only as specified on this label. Do not apply when weather conditions favor drift from treated area. Do not contaminate water when cleaning equipment or disposing of wastes.

Ridomil® trademark of CIBA-GEIGY Corporation for metalaxyl

Bravo® trademark of Fermenta Plant Protection Company for chlorothalonil

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(LABELS R.1 - RDML/BRAVOF4)