

Ridomil® MZ58

ACCEPTED
with COMMENTS
in EPA Letter #

JAN 14 1983

Fungicide

Under the Fungicide, and
as amended, for
registered under EPA Reg. No. 100-629

For control of certain diseases of
potatoes, tomatoes, onions, cucumbers,
and melons

50 Lb.
Net Weight

Active Ingredients:

Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester	10.0%
Zinc ion and manganese ethylene bisdithiocarbamate,*	48.0%
a coordination product of	
manganese ⁺⁺	9.6%
zinc ⁺⁺	1.2%
ethylene bisdithiocarbamate ion	37.2%
<hr/> Inert Ingredients:	42.0%
Total:	100.0%

*Same as the active ingredient found in Dithane® M-45 and Manzate® 200.

Ridomil MZ58 is a wettable powder

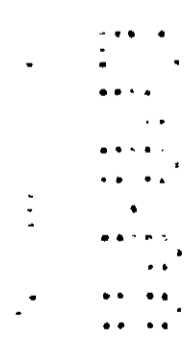
Keep Out of Reach of Children.

Warning

See additional precautionary statements in the back of this booklet.

EPA Reg. No. 100-629
EPA Est. 707-PA-1

CIBA-GEIGY



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.

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.

General Information

Ridomil MZ58 contains 10% of the active ingredient metalaxyl, and 48% of the active ingredient mancozeb. Metalaxyl is a systemic fungicide for use on selected crops to control diseases caused by members of the Phycomycete family of fungi. Mancozeb is effective against a wide range of fungal pathogens.

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 Ridomil MZ58 as recommended, a resistant strain of fungi may be present. If the treatment is ineffective due to the presence of a metalaxyl resistant strain of fungi, neither Ridomil MZ58 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.

Mixing Instructions

Add one-half to three-fourths of the required amount of water to the spray tank, add the proper amount of Ridomil MZ58, then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Ridomil is usually compatible with Bravo[®], Dithane M-22, Dithane M-45, D-z-n[®], Difolatan[®], Manzate, and Manzate 200.

To assure the compatibility of Ridomil MZ58 with these and other products, pour the products into a small 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 is compatible.

IMPORTANT

Do not allow Ridomil MZ58 to become wet or overheated during storage. This may lead to chemical changes which will impair the fungicidal effectiveness of Ridomil MZ58 and may also generate flammable vapors. Keep bag closed when not in use.

Directions for Use

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

FAILURE TO FOLLOW DIRECTIONS ON THIS LABEL MAY RESULT IN CROP INJURY OR POOR DISEASE CONTROL.

Cucumbers and Melons

Ridomil MZ58 provides effective control of downy mildew caused by Pseudoperonospora cubensis when used as a foliar spray in a preventative disease control program.

Apply 1 1/2-2 lbs. Ridomil MZ58 per acre in sufficient water to obtain thorough coverage. Start when the plants are in the two-leaf stage and continue at 14-day intervals throughout the season. Under heavy disease pressure, use the higher rate of Ridomil MZ58.

Note: Do not apply more than 20 lbs. Ridomil MZ58 per acre per year or make the last application within 5 days of harvest.

Onions (Dry Bulb and Seed Onions)

Ridomil MZ58 provides effective control of downy mildew caused by Peronospora destructor when used as a foliar spray in a preventative disease control program.

Apply 1 1/2-2 lbs. Ridomil MZ58 per acre in sufficient water to obtain thorough coverage. Start applications when conditions are favorable for disease development and continue at 14-day intervals throughout the season. Use a suitable spreader-sticker at rates recommended on the product label. Under heavy disease pressure, use the higher rate of Ridomil MZ58.

Note: Do not apply more than 12.5 lbs. Ridomil MZ58 per acre per season or make the last application within 7 days of harvest.

Potatoes

Ridomil MZ58, when used as a foliar application in a preventative disease control program, will provide effective control of late blight and tuber rot caused by Phytophthora infestans.

Apply 1 1/2-2 lbs. Ridomil MZ58 per acre starting when plants are six inches high or when conditions are favorable for late blight development and continue at 14-day intervals throughout the season. Under heavy disease pressure, use the higher rate of Ridomil MZ58. Use sufficient water to obtain thorough coverage for ground applications and a minimum of 3 gals. of water per acre for aerial applications.

For supplemental control of early blight, add one pound of Manzate 200 80W, Dithane M-45 80W, Manzate 80W or Dithane M-22 80W to the Ridomil MZ58 spray or make an additional application of any registered early blight fungicide between each Ridomil MZ58 spray. Where early blight disease pressure is heavy, use early blight fungicides according to product use directions, and use Ridomil MZ58 only when late blight threatens. Only Manzate 200, Dithane M-45, Manzate, or Dithane M-22 may be tank mixed with Ridomil MZ58. Do not apply more than 0.8 lb. per acre per application of Manzate 200 80W, Dithane M-45 80W, Manzate 80W, or Dithane M-22 80W in combination with Ridomil MZ58.

Note: Do not apply Ridomil MZ58 within 7 days of harvest.
Do not apply more than 22.5 lbs. of Ridomil MZ58 per year.

Tomatoes

Ridomil MZ58, when used as a foliar application in a preventative disease control program, will provide effective control of late blight caused by Phytophthora infestans.

Apply 1 1/2-2 lbs. Ridomil MZ58 per acre as a foliar spray in sufficient water to provide thorough coverage. Start applications when plants are six inches high or when conditions are favorable for disease development, and continue at 14-day intervals throughout the season. Under heavy disease pressure, use the higher rate of Ridomil MZ58.

Note: When conditions are favorable for development of diseases other than late blight, any registered fungicides which control those diseases may be applied according to their label directions. However, only Manzate 200, Dithane M-45, Manzate, or Dithane M-22 may be tank mixed with Ridomil MZ58. When making applications of Manzate 200, Dithane M-45, Manzate or Dithane

M-22, 1 1/2 lbs./A of Ridomil MZ58 may be added to the spray mix every 14 days for control of late blight. Do not apply more than 2 lbs. per acre per application of Dithane M-45 80W, Manzate 200 80W, Dithane M-22 80W, or Manzate 80W in combination with Ridomil MZ58. Observe all precautions and restrictions that appear on the labels of other products applied with Ridomil MZ58. Do not apply Ridomil MZ58 within 5 days of harvest.

Rotational Crops

Any crop on this label may be planted during the fall following application of Ridomil MZ58. Small grain cover crops may also be planted during 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

Store in a cool, dry place. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Pesticide that cannot be used according to label instructions must be disposed of according to applicable federal, state, or local procedures. Dispose of bags according to approved federal, state, and local procedures.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

Causes eye irritation. Do not get in eyes.

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust or spray mist. Avoid contact with skin or clothing. Protective clothing (long pants, long sleeve shirt, gloves, hat, and boots) must be worn during mixing and loading. This product may cause allergic skin reaction in some individuals.

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First Aid: In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. If swallowed, drink large quantities of water and induce vomiting by placing finger in back of

throat, and contact local poison control center. Avoid alcohol. Never give anything by mouth to an unconscious person. In case of inhalation exposure, move from the contaminated area.

Note to Physician: There is no specific antidote for Ridomil/Mancozeb 58W-A. Lavage stomach. Give a saline laxative and supportive therapy.

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 areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

Ridomil® trademark of CIBA-GEIGY for metalaxyl
U.S. Patent No. 4,151,299

Bravo® trademark of Diamond Shamrock Company for chlorothaloril

Difolatan® trademark of Chevron Chemical Company for captafol

Dithane® trademark of Rohm and Haas Company for maneb/mancozeb

D·z·n® trademark of CIBA-GEIGY for diazinon

Manzate® trademark of E. I. duPont de Nemours & Company for maneb/mancozeb

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 65L12

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U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (HH 467) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended.)</i>	NAME OF PESTICIDE PRODUCT	
	NAME AND ADDRESS OF REGISTRANT (include ZIP code)	
<input type="checkbox"/>	<input type="checkbox"/>	$\frac{181}{37}$ $\frac{80993}{1}$
<input type="checkbox"/>	<input type="checkbox"/>	$\frac{181}{17}$ $\frac{82590}{1}$
<p>NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p>		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE