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DITHANE M-45

AGRICULTURAL FUNGICIDE

NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, the Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.



KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals
Harmful if absorbed through skin. May cause irritation of nose, throat, eyes and skin. Do not breathe dust or spray mist.
PROTECTIVE CLOTHING AND EQUIPMENT: All agricultural workers/handlers (i.e., mixers, loaders, and applicators) applying EBDC's must wear coveralls over long-sleeved shirt and long pants; shoes, socks and chemical-resistant gloves. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn. Refer to Re-entry and Worker Protection Statements for additional Worker Safety rules.

STATEMENT OF PRACTICAL TREATMENT
IF SWALLOWED: Dilute by giving 2 glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.
IF INHALED: Move subject to fresh air.
IF IN EYES: Flush eyes with large amounts of water for at least 15 minutes. Consult a physician if irritation persists.
IF ON SKIN: Wash affected skin areas with soap and water.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark except as specified for the labeled use on cranberries. Do not contaminate water when disposing of equipment washwaters or disposing of wastes. For Seed Treatment Products — cover or incorporate spilled treated seed.

CONDITIONS OF SALE AND WARRANTY
Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

ACTIVE INGREDIENTS	
MANCOZEB	
A combination product of zinc ion and manganese ethylene bisdithiocarbamate	80%
In which the ingredients are:	
Manganese++	16%
Zinc++	7%
Ethylene bisdithiocarbamate ion (C ₂ H ₂ N ₂ S ₂)	62%
INERT INGREDIENTS	20%
Total	100%



EPA Reg. No. 707-78

RE-ENTRY AND WORKER PROTECTION STATEMENTS

WORKER SAFETY RULES
Keep all unprotected persons, children, livestock and pets away from treated area or where there is a danger of drift. Do not rub eyes or mouth with hands. See Statement of Practical Treatment.

PERSONAL PROTECTIVE EQUIPMENT — For Mixers, Loaders, Applicators and Early Re-entry Workers.

HANDLE THIS PRODUCT ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT: An agricultural workers/handlers (i.e., mixers, loaders, and applicators) applying EBDC's must wear coveralls over long-sleeved shirt and long pants; shoes, socks, and chemical-resistant gloves. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn. For agricultural workers, where completely enclosed cabs with positive pressure filtration or an enclosed cockpit for aerial application are used, a long-sleeved shirt and long pants may be worn in place of the protective clothing described above. Chemical-resistant gloves must be available in the cab or cockpit and worn upon exiting. The gloves must be kept in an enclosed container in the cab or cockpit to prevent contamination of the inside of the cab or cockpit. During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

IMPORTANT! Before removing gloves, wash them with soap and water. Always wash hands, face, and arms with soap and water before eating, smoking or drinking. Always wash hands and arms with soap and water before using the toilet.

After work take off all clothes and shoes. Shower using soap and water. Wear only clean clothes. Do not use contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with DITHANE M-45 fungicide must be destroyed according to state and local regulations.

HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED. During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

RE-ENTRY STATEMENTS

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. 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. Warnings must include the following information: **"CAUTION. Area treated with DITHANE M-45 fungicide on [date of application]. Do not enter without appropriate protective clothing within 24 hours of application. In case of contact, flush skin or eyes with plenty of water; for eyes, consult a physician if irritation persists."**
After sprays have dried, do not enter or allow entry into treated areas until the 24-hour re-entry interval has expired unless wearing the personal protective equipment listed on this label.

ACCEPTED

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Under the responsibility of the...
A.S. as agent...
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GENERAL USE INFORMATION

DITHANE M-45 is a broad-spectrum protectant fungicide recommended for outdoor or greenhouse grown crops. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventive spray program. The addition of an agricultural surfactant will improve fungicide performance by providing a more uniform spray deposit, increased foliar redistribution, and improved fungicide retention during periods of wet weather.

USE RATE DETERMINATION

Carefully read, understand, and follow label use rates and restrictions.

Under low disease conditions, minimum label rates per application can be used while maximum label rates and the minimum interval may be used for severe or threatening disease conditions.

For proper application, determine the number of acres to be treated, the recommended label use rate, and the gallonage to be applied per acre. Prepare only the amount of spray solution required to treat the measured acreage. Careful calibration of spray equipment is recommended prior to use.

When applied by hand sprayers, 1 pound DITHANE M-45 fungicide per 100 gallons per acre is equivalent to 1 level tablespoon per gallon spray solution.

MIXING

Slowly place into spray tank as it is being filled or thoroughly premix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides, insecticides, growth regulators, micronutrients, and spray adjuvants after DITHANE M-45 fungicide has been placed into suspension.

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing 1/3 to 1/2 the desired final water volume.

COMPATIBILITY

DITHANE M-45 fungicide is compatible with most commonly used agricultural fungicides, insecticides, and growth regulators. When preparing tank mixes, user should consult spray compatibility charts or State Cooperative Extension Service Specialists prior to actual use.

SPRAY ADJUVANTS

The addition of agricultural surfactants to DITHANE M-45 fungicide sprays will improve initial spray deposits, fungicide redistribution, and weatherability. The following spray adjuvants have been especially formulated to optimize the performance of foliar-applied agricultural chemicals:

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| LATRON B-1956™ | A water-dispersible, resin-based nonionic surfactant that resists re-wetting and removal by rain. Effective with dilute sprays applied by ground equipment. |
| LATRON CS-7™ | A spreader-binder designed specifically for use in concentrate and low volume sprays applied by aircraft or ground equipment. |

Place DITHANE M-45 fungicide into suspension prior to adding an adjuvant to the spray mixture. Read and carefully observe the precautionary statements and all other information appearing on both product labels prior to spray preparation.

APPLICATION

Ground

Thorough coverage foliar sprays generally result in optimum disease control. To achieve good coverage use proper spray pressure, gallonage per acre, nozzles (generally hollow cone), discs (generally D-5 to D-7), nozzle spacing, and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

Hand Sprayers

Thoroughly spray plant foliage until runoff.

Aerial

A uniform initial spray deposit over the crop canopy generally

results in optimum disease control. Each aircraft should be prechecked for droplet size, uniformity of spray pattern, swath width, and spray volume. During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

Nozzle selection — Hollow cone brass nozzles with a D series orifice disc and core (whirlplate) are recommended. Nozzles should point straight down or slightly backward.

Swath width — For most field and vegetable crops, swaths just beyond the wingspan of 36 to 40 feet for light aircraft and up to 45 feet for heavier aircraft are suggested. Optimum swath for helicopters is usually 5 to 10 feet beyond normal boom length.

Spray volume — Aerial applications are to be made in a minimum of two (2) gallons of water per acre. On vegetable and field crops, 2 to 3 gallons of spray per acre are generally optimum; orchards and vineyards can be handled with spray volumes of 5 gallons per acre. Some tall or dense foliage crops, requiring greater penetration to the lower leaf surface, will require higher spray volumes. Do not use less than 5 gallons per acre in California.

Altitude — For most crops, the spray boom should be positioned 5 to 10 feet above the crop canopy.

Flagging — Swaths should be marked at the end of the field with permanent flags or by a flagman in a totally enclosed vehicle. Swaths should be measured accurately with a chain or other device except when rows can be accurately counted.

CHEMIGATION USE DIRECTIONS

Sprinkler Irrigation

DITHANE M-45 fungicide must be applied on a regular protectant fungicide schedule, not an irrigation schedule. If irrigation cycles are less frequent than recommended DITHANE M-45 fungicide application intervals, ground or aerial applications must supplement chemigation applications to achieve adequate disease control.

Apply DITHANE M-45 fungicide only through sprinkler irrigation systems including center-pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move irrigation systems. Do not apply product through any other type of irrigation system.

Lack of fungicidal 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.

Before applying DITHANE M-45 fungicide through sprinkler irrigation equipment, the chemigation system must meet the following specific tests:

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an alternative to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete air break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- Systems not connected to a public water supply must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located in the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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- 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 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.
- 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.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

Center-pivot, Lateral Move, End Tow, and Traveler Irrigation Equipment: (Use only with electric or oil hydraulic drive systems which provide a uniform water distribution.)

- Determine size of area to be treated.
- Determine the time required to apply no more than 1/4 inch water (6,750 gallons water per acre) over the area to be treated when the system and injection equipment are operated at normal pressures recommended by the equipment manufacturer. Run system at 80 to 95% of manufacturer's rated capacity.
- Using only water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of DITHANE M-45 fungicide required to treat area.
- Add the required amount of DITHANE M-45 fungicide and sufficient water to meet the injection time requirements of the solution tank.
- Maintain constant solution tank agitation during the injection period.

- Stop injection equipment after treatment is completed. Continue to operate the system until DITHANE M-45 fungicide solution has cleared the sprinkler head.

Solid-set, Side (wheel) Roll, and Hand Move Irrigation Equipment:

- Determine acreage covered by sprinkler.
- Fill injector solution tank with water and adjust flow rate to use contents over a 10 to 30 minute interval.
- Determine the amount of DITHANE M-45 fungicide required to treat area.
- Add the required amount of DITHANE M-45 fungicide into the same quantity of water used to calibrate the injection equipment.
- Maintain constant solution tank agitation during the injection period.
- Operate system at normal pressures recommended by the manufacturer of the injection equipment and used for the time interval established during calibration.
- Inject DITHANE M-45 fungicide at the end of the irrigation cycle or as a separate application to maximize foliar fungicide retention.
- Stop injection equipment after treatment is completed. Continue to operate the system until DITHANE M-45 fungicide solution has cleared the last sprinkler head.

DISEASE MONITORING

DITHANE M-45 fungicide is a broad-spectrum, protectant fungicide. If not applied on a routine protectant spray schedule, crops should be scouted on a weekly basis. Fungicide application should be made, at the recommended label use rate and spray schedule, at the first sign of disease, report of disease in the area, or during environmental conditions favorable for disease development.

RESTRICTIONS

Users should carefully read, understand, and follow all use restrictions prior to using DITHANE M-45 fungicide. If this product is used on a crop, no other product containing a different EBOC's active ingredient may be used on the same crop during the same growing season.

POMEFRUITS

Not intended for use on fruit trees by homeowners. Use either the "Pre-Bloom" or "Extended Application" schedule. DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES. It is recommended that this product be used in an Integrated Pest Management Program (IPM).

Crop	Diseases Controlled	Rate Of BITHANE M-45 Per Application Lbs./Acre	Remarks (Also Refer To Directions For Use)	Restrictions
Apples Cranberries Pears Quince	Foliar leaf spot Rusts Scab	6.0*	Pre-Bloom Use: Begin applications at 1/4 to 1/2 inch green tip and continue on a 7 to 10 day schedule through bloom.	Do not apply more than 6 lbs. (4.8 lbs. active) per acre per application. Do not apply after bloom. Do not apply more than 24 lbs. (19.2 lbs. active) per acre per year. Do not graze livestock in treated areas.
		3.0*	Extended Application Schedule for Use in Tank Mixtures with Systemic Fungicides: For implementation of IPM programs, applications based on tree-row volume, or for use as a resistance management tool, begin applications at 1/4 to 1/2 inch green tip and continue applications on a 7 to 10 day schedule through the second cover spray or to within 77 days of harvest.	Do not apply more than 3 lbs. (2.4 lbs. active) per acre per application. Do not apply within 77 days of harvest. Do not apply more than 21 lbs. (16.8 lbs. active) per acre per year. Do not graze livestock in treated areas.

*Maximum per acre use rate based on thorough coverage dilute sprays.

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Crop	Diseases Controlled	Rate Of BITHANE M-45 Per Application Lbs./A	Remarks (Also Refer To Directions For Use)	Restrictions
Bananas	Sigatoka	2 to 3	Apply when leaves first appear and repeat every 14 to 21 days or as required. Use sufficient water to provide adequate coverage. The addition of a LATRON surfactant to spray solutions will improve performance.	Do not apply more than 30 lbs. (24 lbs. active) per acre per growing cycle. Applications can be made up to the day of harvest.
Cranberries	Fruit rot	3 to 6	Start applications at mid-bloom and repeat at 7 to 10 day intervals as required.	Do not apply within 30 days of harvest. Do not apply more than 18 lbs. (14.4 lbs. active) per acre per season.
Grapes	Black rot Bunch rot Deadarm Downy mildew	1 1/2 to 2 1/2 West of the Rocky Mountains 1 1/2 to 4 East of the Rocky Mountains	Apply in sufficient water to provide thorough coverage starting when new shoots are 1/2 to 1 1/2 inches long. Repeat when shoots are 3 to 5 inches long, when shoots are 8 to 10 inches long, and then at 7 to 10 day intervals until fruit is set. For late season control of black rot, deadarm and downy mildew, the use of other approved and recommended fungicides is suggested.	In California, do not apply after bloom. In other areas, do not apply within 66 days of harvest. West of the Rocky Mountains, do not apply more than 7.5 lbs. (6 lbs. active) per acre per season. East of the Rocky Mountains, do not apply more than 24 lbs. (19.2 lbs. active) per acre per season.
Papayas	Anthraxnose Phytophthora fruit rot	2 to 2 1/2	Use 20 to 100 gallons water per acre. Start applications at flowering and continue at 14 to 21 day intervals. Direct spray to crown and blossom area. Use 6 to 8 ounces LATRON B-1956 spreader-sticker per acre.	Do not apply more than 55 lbs. (28 lbs. active) per growing cycle. Applications may be made up to the day of harvest.

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VEGETABLES

Crop	Diseases Controlled	Rate Of DITHANE M-45 Per Application Lbs./A	Remarks (Also Refer To Directions For Use)	Restrictions
Asparagus	Cercospora leaf spot Rust	2	Start applications when rust first appears and repeat at 10 day intervals. Four applications are usually sufficient.	Apply only on asparagus ferns after spears have been harvested. Do not apply more than 8 lbs. (6.4 lbs. active) per acre per season. Do not apply within 120 days of harvest in California and Arizona, or within 180 days in all other states.
Corn (sweet, popcorn) and sweet corn used for seed production)	Common rust Helminthosporium leaf blight	1 1/2	Use sufficient water for thorough coverage. Start applications when disease first appears and repeat at 4 to 7 day intervals. The addition of a LATRON surfactant to spray solutions will improve performance.	Do not apply within 7 days of harvest. East of the Mississippi River and Arkansas and Louisiana, do not apply more than 22.5 lbs. (18 lbs. active) per acre per crop. West of the Mississippi River (except Arkansas and Louisiana), do not apply more than 7.5 lbs. (6 lbs. active) per acre per crop. Do not feed treated forage to livestock.
Cucumbers	Anthracoese Cercospora leaf spot Downy mildew Gummy stem blight Scab	2 to 3	Start applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces.	Do not apply within 5 days of harvest. Do not apply more than 24 lbs. (19.2 lbs. active) per acre per crop.
Fennel	Early blight Late blight	2	Start applications when disease first appears and repeat applications every 7 to 10 days.	Do not apply more than 16 lbs. (12.8 lbs. active) per season. Do not apply within 14 days of harvest.
Melons Cantaloupe Casaba Crenshaw Honeydew Muskmelon	Alternaria leaf spot Anthracoese Downy mildew Gummy stem blight	2 to 3	Start applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces. Some varieties are sensitive to DITHANE M-45 fungicide. Consult State Cooperative Extension Service Specialist prior to use.	Do not apply within 5 days of harvest. Do not apply more than 24 lbs. (19.2 lbs. active) per acre per crop.
Onions (dry bulb)	Betrytes leaf blight Downy mildew Neck rot Purple blotch	3	Follow a protective spray schedule starting when diseases are first reported in the area and repeat at 7 day intervals throughout the season. The addition of a LATRON surfactant to spray solutions will improve performance. Do not allow spray or drift to contact bulbs after lifting from soil.	Do not apply within 7 days of harvest. Do not apply more than 30 lbs. (24 lbs. active) per acre per crop. Do not apply to exposed bulbs.
(farrow drench)	Damping-off Seed rots Seedling blights Smut		Apply 3 lbs. per acre as a farrow drench at time of planting onion seeds. Use 75 to 125 gallons water per acre.	Do not use more than 3 lbs. (2.4 lbs. active) per acre (29,500 linear feet of farrow) with an 18 inch row spacing. Do not use in California.

VEGETABLES (cont'd)

Crop	Diseases Controlled	Rate Of DITHANE M-45 Per Application Lbs./A	Remarks (Also Refer To Directions For Use)	Restrictions
Potatoes	Early blight Late blight	1 to 2	Begin applications when plants are 4 to 6 inches high by applying 1 lb. per acre. As the vines increase in size, apply 1 1/2 to 2 lbs. per acre. Repeat applications at 5 to 10 day intervals. The addition of a LATRON surfactant to spray solutions will improve performance. It is recommended that this product be used within an Integrated Pest Management Program. Also, vine-kill should occur 14 days before harvest.	Do not apply more than 14 lbs. (11.2 lbs. active) per acre per crop. Do not apply within 3 days of harvest in Connecticut, Delaware, Florida, Maine, Massachusetts, Michigan, New Hampshire, New York, Ohio, Pennsylvania, Rhode Island, Vermont and Wisconsin and a least 14 days elsewhere.
Seedpiece (treatment)	Fusarium decay Seedborne common scab		Dip whole or cut potato tubers in 1 1/4 lbs. DITHANE M-45 fungicide per 50 gallons of water. Place treated tubers in a clean container following treatment and plant as soon as possible. Spread treated seedpieces in a cool place if held before planting.	Do not use treated seed potatoes for food or feed purposes.
Squash, summer	Downy mildew	2 to 3	Start applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces.	Do not apply within 5 days of harvest. Do not apply more than 24 lbs. (19.2 lbs. active) per acre per crop.
Tomatoes	Anthraxnose Early blight Gray leaf spot Late blight Leaf mold Septoria leaf spot	1 1/2 to 2 West of the Mississippi River 1 1/2 to 3 East of the Mississippi River	Start applications when seedlings emerge or transplants are set and repeat at 7 to 10 day intervals throughout the season. The addition of a LATRON surfactant to spray solutions will improve performance.	Do not apply within 5 days of harvest. West of the Mississippi, do not apply more than 8 lbs. (6.4 lbs. active) per acre per crop. East of the Mississippi, do not apply more than 21 lbs. (16.8 lbs. active) per acre per crop.
Watermelons	Alternaria leaf spot Anthraxnose Cercospora leaf spot Downy mildew Gummy stem blight Scab	2 to 3	Start applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces.	Do not apply within 5 days of harvest. Do not apply more than 24 lbs. (19.2 lbs. active) per acre per crop.

FIELD CROPS

Crop	Diseases Controlled	Rate Of DITHANE M-45 Per Application Lbs./A	Remarks (Also Refer To Directions For Use)	Restrictions
Barley	Refer to Wheat			
Corn, field and hybrid seedcorn	Common corn rust Helminthosporium leaf blight	1 1/2	Start applications when disease symptoms first appear and, depending on severity of infection, continue on a 4 to 14 day schedule. The addition of LATRON CS-7 will improve performance.	Do not apply more than 15 lbs. (12 lbs. active) per season. Do not apply within 40 days of harvest.
Cotton (Southwest U.S. only)	Rust	1 1/4 to 2	Start applications when rust appears and repeat at 10 to 14 day intervals until disease threat is past.	Do not apply more than 8 lbs. (6.4 lbs. active) per season. Do not apply after bolls open. Do not apply within 45 days of harvest. Do not graze livestock in treated areas or feed grain to livestock.

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FIELD CROPS (cont'd)

Crop	Diseases Controlled	Rate Of DITHANE M-45 Per Application Lbs./A		Remarks (Also Refer To Directions For Use)	Restrictions
		oz./lb.	oz./100 lbs.		
Oats	Refer to Wheat				
Peanuts	Cercospora leaf spot Rust		to 2	Start applications when disease first appears or is reported in area. Repeat sprays at 7 to 14 day intervals.	Do not apply within 14 days of harvest. Do not use more than 16 lbs. (12.8 lbs. active) per acre per crop. Do not feed treated areas to livestock.
Pye	Refer to Wheat				
Sugar beets	Cercospora leaf spot		1 1/2 to 2	Start applications when disease first threatens and repeat every 7 to 10 days as needed. The addition of a LATRON surfactant to spray solutions will improve performance.	Do not apply within 14 days of harvest. Do not apply more than 14 lbs. (11.2 lbs. active) per season. Do not feed treated tops to livestock.
Wheat	Helminthosporium leaf spot Leaf rust Septoria glume blotch Sc. blight leaf spot Tan spot		2	Start applications at onset of disease or when plants are in the tillering to jointing stage and repeat at 7 to 10 day intervals. The addition of LATRON CS-7 to spray solutions will improve performance.	Do not make more than three applications during the season. Do not apply within 26 days of harvest. Do not graze livestock in treated areas prior to harvest.

SEED TREATMENT — Seeds to be treated should be cleaned and well cured prior to treatment. DITHANE M-45 fungicide may be applied to dry seed with conventional slurry or mist seed treating equipment or as a planter-box application. For best results, the seed must be completely and uniformly covered with fungicide. For seed treatment, a dye must be added to DITHANE M-45 fungicide that will impart an unnatural color to the seed.

Crop	Diseases Controlled	Rate Of DITHANE M-45 Per Application		Remarks (Also Refer To Directions For Use)	Restrictions
		oz./lb.	oz./100 lbs.		
Barley	Covered smut Damping-off False loose smut Seed rots Seedling blights	1.3 to 2.0	2.7 to 4.2	For planter box treatment only.	Treated seed should be labeled, "Must not be used for food, feed, or oil purposes."
Corn (field)	Damping-off Seed rots Seedling blights	1.5 to 3.0	2.7 to 5.4		
Cotton (acid delinted) (pre-germed)	Damping-off Seedling blights		3.0		
	Damping-off Seedling blight		6.0		
Flax	Damping-off Seed rots Seedling blights	2.0 to 4.0	3.6 to 7.1		
Oats	Damping-off Seed rots Seedling blights Smuts	1.3 to 2.0	4.0 to 6.3	For planter box treatment only.	
Peanuts (shelled)	Damping-off Seed rots Seedling blights	2.0 to 4.0	8.0 to 16.0		
Rice	Damping-off Seed rots Seedling blights		2.0 to 4.0	Apply before, during or after soaking in water.	
Rye	Bunt Damping-off Seed rots Seedling blights	1.3 to 2.0	2.3 to 3.6	For planter box treatment only	
Safflower	Seedborne rust (Puccinia carthami)		2.0		

SEED TREATMENT (cont'd)

Crop	Diseases Controlled	Rate Of DITHANE M-45 Per Application		Remarks (Also Refer To Directions For Use)	Restrictions
		Oz./Bu.	Oz./100 Lbs.		
Sorghum	Covered kernel smut Damping-off Seed rots Seedling blights	1.5 to 2.5	2.7 to 4.5		Treated seed should be labeled, "Must not be used for food, feed, or oil purposes."
Tomatoes	Damping-off Seed rots Seedling blights		8.0		
Wheat	Bunt Damping-off Seed rots Seedling blights	1.3 to 2.0	2.2 to 3.9	For planter box treatment only.	

MISCELLANEOUS

Crop	Diseases Controlled	Rate Of DITHANE M-45 Per Application	Remarks (Also Refer To Directions For Use)
Asparagus crowns	Crown rot	1 lb. per 100 gals.	Place loosely packed crowns into a burlap bag and soak, with gentle agitation, in the fungicide solution for 5 minutes. Remove bag, drain well, and plant crowns as soon as possible. A tank large enough to hold a single burlap bag will treat 2 bags of crowns. Clean dipping suspension should then be prepared in a clean tank. Dirty crowns should be pre-washed to remove excess soil.
Capring	Assorted molds Endosepsis (Fusarium)	1 lb. per 25 gals.	Prepare wattle figs by making a shallow cut through the eye and then hand dividing to avoid weep injury. Submerge wattle figs in the fungicide suspension for a minimum of 15 minutes. The fungicide suspension should be stirred frequently to prevent settling out. Fresh dipping solution should be used after treating 4 or 5 batches of figs. After treatment, figs should be drained prior to placement in trees.
Pineapple	Phytophthora heart rot	3.2 lbs. per 10 gals.	Dip planting material in fungicide solution prior to planting. Stir solution frequently to prevent settling out. A new solution should be prepared when at least two-thirds of the volume has been used or sooner if soil from plant material has noticeably discolored the solution. Depending on the cleanliness and size of planting stock, up to 100 gallons of fungicide solution should be used to treat the propagative materials used to plant one acre.

STORAGE AND DISPOSAL

STORAGE: Keep away from fire and sparks. Store in a cool, dry, well ventilated area. Do not allow to become wet or overheated in storage: decomposition, impaired activity, or fire may result. Keep container closed when not in use.

Pallets of containers should not be stacked more than three high. Provide access aisle for each two rows. Decomposition produces a foul odor; if observed, check for hot containers and immediately remove to open areas for disposal.

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: Completely empty bag into application equipment. Then dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or shovel into containers for disposal or reworking. Keep dusting to a minimum. Flush contaminated area with a large amount of water to a chemical or sanitary sewer containing a settling pit. Refer to Precautionary Statements.

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