

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

FEB 25 2003

Cynthia Huffman
Southern Agricultural Insecticides, Inc.
P.O. Box 218
Palmetto, FL, 34220

Dear Ms. Huffman

Subject: Dithane M-45, EPA Registration Number 829-286
Your submission dated December 26, 2002

The label, referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided you make the following changes:

Ingredient Statement:

- Line up the percentages of the mancozeb components (manganese, zinc and ethylenebisdithiocarbamate ion) so the rightmost digits fall along the same vertical line.
- Line up the percentages of total mancozeb, inerts and the total percentage so the rightmost digits fall along a different vertical line to the right of the mancozeb components.

Precautionary Statements:

Replace the text following Hazards to Humans and Domestic Animals: with "Caution - Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling."

Environmental Hazards:

Add the sentence "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark." immediately after the sentence "This product is toxic to fish."

Storage and Disposal Statement:

Move the Storage and Disposal statements from their current place immediately following "Environmental Hazards" to the end of the Directions for Use section.

Directions for Use:

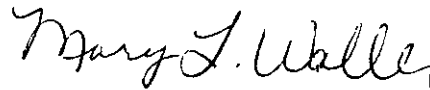
- Since this product is not subject to the Worker Protection Standard, delete "Do not apply this product in a way that will contact other persons, children or pets either directly or through drift. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation."
- Delete "Do not apply this product through any type of irrigation system."

Ornamentals:

Change "Do not use fruit from treated plants listed in this section for food or feed unless use rates from the Fruit section are followed." to "Do not use fruit from treated plants listed in this section for food or feed. The only fruits which can be eaten after treatment with this product are bananas, grapes and papayas. Application rates for these three fruits are provided in the 'Fruit' section."

Submit one (1) copy of your final printed labeling before you release the product for shipment. A stamped copy of the label is enclosed for your records. If you have any questions, please contact Lisa Jones of my staff by phone at (703) 308-9242 or by e-mail at jones.lisa@epa.gov.

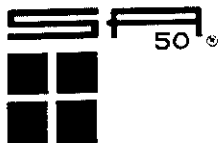
Sincerely,



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

Enclosure: Stamped label

CONCURRENCES							
SYMBOL ▶	7505C						
SURNAME ▶	Lisa Jones						
DATE ▶	Feb 24, 2003						



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DITHANE[®] M-45

A BROAD SPECTRUM FUNGICIDE FOR USE ON CERTAIN VEGETABLES AND ORNAMENTALS

ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese Ethylenebisdithiocarbamate...80%

in which the ingredients are

Manganese++.....	16%
Zinc++.....	2%
Ethylenebisdithiocarbamate ion (C ₄ H ₆ N ₂ S ₄).....	62%



INERT INGREDIENTS:	20%
TOTAL	100%

*Dithane M-45 - reg. Trademark of Dow AgroScience

KEEP OUT OF REACH OF CHILDREN (12 point)

CAUTION (18point)

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Precautionary Statements

Hazards to Humans and Domestic Animals

Caution: May Be Harmful if absorbed through the skin. May cause irritation of nose, throat, eyes and skin. Do not breathe dust or spray mist. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food, feedstuffs, and domestic water supplies.

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 contaminate water when disposing of equipment washwaters, or disposing of wastes

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store pesticide in the original container in a locked storage area. Do not allow to become wet or overheated in storage: decomposition, impaired activity, or fire may result.

PESTICIDE DISPOSAL: To dispose of pesticide, securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse container. Rinse thoroughly before discarding in trash.

Buyer assumes all risks of use, storage, or handling of this material not in strict accordance with the directions and precautions given herewith.

For Questions and Comments please contact us by email at support@southernag.com or through our website at www.southernag.com.

Southern Agricultural Insecticides, Inc.

Palmetto, FL 34220
EPA Reg. No. 829-286

Hendersonville, NC 28793
J2

Boone, NC 28607

Net Weight: 6 oz. and 2 lbs.

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 other persons, children or pets either directly or through drift. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Not for use on plants being grown for sale or other commercial use.

For foliage applications, apply with a hand sprayer to obtain thorough coverage. Make applications when plants are dry and drying conditions are good. Remove residue from sprayed vegetables by washing. On hard to wet plants, such as roses, add a spreader - sticker which has been cleared for use on growing crops, such as SA-50 Brand Spreader - Sticker to the spray mixture.

NOTE: Use **LEVEL** tablespoonfuls when tablespoonfuls are specified on this label.

Do not apply this product through any type of irrigation system.

NOTE: This product may stain concrete and masonry surfaces.

Restrictions: Foliar Applications: Do not apply this product if other products containing Maneb or Mancozeb or Metiram are used.

ORNAMENTALS:

Neither the manufacturer nor the seller has determined the effects of using DITHANE M-45 fungicide on all ornamental species.

For outdoor or home greenhouse use, apply at 1 1/2 tablespoonfuls per gallon of water using a hand sprayer or hose end sprayer. Do not use these rates on home orchards/fruit trees. Do not use fruit from treated plants for food or feed unless use rates from the Fruit section are followed. The addition of a spreader sticker to spray solutions will improve performance. Begin applications when plants are well leafed out or at first signs of disease. Repeat at 7 to 10 day intervals as long as needed on the following plants for control of listed diseases.

AFRICAN VIOLET: Botrytis blight.

ANTHURIUM: Anthracnose, spadix rot.

ARBORVITAE: Cercospora blight.

ASTER, perennial: Puccinia rusts.

AUCUBA, japonica: Alternaria leaf spot, Anthracnose.

AZALEAS, CAMELLIAS, RHODODENDRONS - Petal blights. Apply 2 to 3 times per week while petals are opening. Direct spray into flowers and spray ground-under bushes thoroughly.

BEGONIA: Botrytis blight.

CARNATION: Rust, Septoria leaf spot.

CEDAR, red (Juniper): Cercospora blight, phomopsis blight.

CHRYSANTHEMUM: Ascochyta blight, Botrytis petal spot, Rust, apply twice weekly during blooming period.

CONIFERS: Lophodermium needle cast, Pine gall rust, Scirrhia brown spot, Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals as long as needed.

CORDYLINE: Cercospora leaf spot.

CRAB APPLE (Ornamental): Cedar-apple rust, Scab.

DAHLIA: Botrytis blight.

DIEFFENBACHIA: Leptosphaeria brown spot.

DOGWOOD, FLOWERING: Anthracnose, Eisinoe leaf spot, Septoria leaf spot. Apply when buds begin to open, when BRACTS have fallen, 4 weeks later and again in late summer after flower buds for next season have formed.

DRACAENA: Fusarium leaf spot.

ELM: Black leaf spot.

EUONYMUS: Anthracnose.

FATSIA: Anthracnose.

FERN: Rhizoctonia blight.

FICUS: Cercospora leaf spot.

FIR, Douglas: Swiss needle cast.

FIRETHORN (Pyracantha): Fusicladium scab.

FUCHSIA: Botrytis blight, Rust.

GERANIUM: Rust.

(Ornamentals continued)

GLADIOLUS: Botrytis blossom blight, Curvularia leaf spot, Make regular weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather. On flower spikes, reduce spray concentrations to 3/4 tablespoonfuls per gallon.

HAWTHORN: Cedar-apple rust, Fabraea leaf spot, Frogeye leaf spot, Hawthorn rust, Scab.

HOLLY: Purple spot.

HOLLYHOCK: Anthracnose, Cercospora leaf spot, Puccinia rusts.

HONEYSUCKLE: Herpobasidium blight.

IRIS: Didymellina leaf spot.

HORSECHESTNUT, Buckeye: Alternaria leaf spot, Guignardia leaf spot.

HYDRAGEA: Botrytis blight, Cercospora leaf spot.

JUNIPER: Phomopsis blight.

LAUREL, mountain: Cercospora leaf spot, Petal blight, Apply 2 to 3 times per week while petals are opening. Direct spray into flowers and spray ground under bushes thoroughly.

LIGUSTRUM: Cercospora leaf spot.

LILY: Botrytis blight.

MAGNOLIA: Gloeosporium leaf spot.

MAPLE : Alternaria leaf spot, phyllosticta leaf spot
(Do not use on Maples intended for syrup production).

MARIGOLD: Botrytis blossom blight, Do not use on French dwarf double or Signet-type marigold seedlings.)

NARCISSUS: Botrytis blight (fire), Smoulder.

OAK: Actinopelte leaf spot, Taphrina leaf blister.

ORCHID (Dendrobium): Botrytis blossom blight.

PACHYSANDRA: Volutella blight, use a drenching spray of 4 tablespoonsful per 1 gallon of water per 100 sq. ft. of bed. Start applications at first sign of disease and apply at least 5 applications at 10 to 14 day intervals.

PANSY: Anthracnose.

PEONY: Botrytis blossom blight, Phytophthora blight. Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts.

PEPEROMIA: Cercospora leaf spot.

PHILODENDRON: Dactylaria leaf spot, Phytophthora leaf spot.

PHOTINIA: Entomosporium leaf spot.

PLEOMELE: Fusarium leaf spot.

POINSETTIA: Sphaceloma scab.

ROSE: Black spot, Cercospora leaf spot, Rust.

SCHEFFLERA: Alternaria blight.

SKUNKBUSH, SUMAC: Cylindrosporium leaf spot.

SNAPDRAGON: Rust.

STATICE: Cercospora frogeye.

SYNGONIUM: Cephalosporium leaf spot.

TULIP: Botrytis blight (fire).

VENUS, FLYTRAP: Anthracnose.

VIBURNUM: Downy mildew, Ramularia leaf spot.

ZINNIA: Alternaria leaf blight.

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

FEB 25 2003

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.**

529-286

VEGETABLES:

Apply the rates given below at 1 gallon dilute solution per 435 sq. ft.

Corn (Sweet, Popcorn) Common rust, Helminthosporium leaf blight. Use 1 1/2 tablespoonfuls per gallon of water. Start applications when disease first appears and repeat at 4 to 7 day intervals. Do not make more than 15 applications per season East of the Mississippi River and Arkansas and Louisiana. In areas West of the Mississippi River (except Arkansas and Louisiana) do not make more than 5 applications per season. Do not apply within 7 days of harvest. Do not feed treated forage to livestock.

Cucumbers: Anthracnose, Cercospora leaf spot, Downy mildew, Gummy stem blight, Scab; **Melons:*** (Cantaloupe, Casaba, Crenshaw, Honeydew, Muskmelon) Alternaria leaf spot, Anthracnose, Downy mildew, Gummy stem blight; **Watermelons:** Alternaria leaf spot, Anthracnose, Cercospora leaf spot, Downy mildew, Gummy stem blight, Scab; **Summer Squash:** Downy mildew. Use 2-3 tablespoonfuls per gallon of water. Apply to obtain thorough coverage of both upper and lower leaf surfaces. Start applications when plants are in the two-leaf stage and repeat at 7-10 day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower surfaces. Do not make more than 8 applications per season. Do not apply within 5 days of harvest. *Some cantaloupe varieties (i.e. Harvest Queen, Gold Star, Super Star, Sweet and Early, and Saticoy) are sensitive to Dithane M-45 fungicide. Consult State Cooperative Extension Service Specialist prior to use.

Tomatoes: Anthracnose, Early Blight, Late Blight, Gray Leaf Spot, Leaf Mold, Septoria Leaf Spot. Use 1 1/2 - 3 tablespoonfuls per gallon of water in areas East of the Mississippi River (use 1 1/2 -2 tablespoonfuls West of the Mississippi). Begin applications when seedlings emerge or when transplants are set and repeat at 7 -10 day intervals throughout the season. Do not make more than 7 applications per season in areas East of the Mississippi River or 4 applications West of the Mississippi. Do not apply within 5 days of harvest.

Potatoes: Early Blight, Late Blight. Use 1 - 2 tablespoonfuls per gallon of water. Begin applications when plants are 4 to 6 inches high; and repeat at 5-10 day intervals. Do not make more than 7 applications per season. It is recommended that this product be used within an integrated pest management program. Vine-kill should occur 14 days before harvest. 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 at least 14 days elsewhere.

FRUIT:

Apply the rates given below at 1 gallon dilute solution per 435 sq. ft. **Apply only to listed fruits.**

BANANAS: Sigatoka. Use 2-3 tablespoonsful per gallon of water. Apply when leaves first appear and repeat every 14 to 21 days or as required. Do not make more than 10 applications per season. Applications may be made up to the day of harvest.

GRAPES: (east of the rocky mountains only) Black Rot, Bunch rot, Dead arm, Downy Mildew. Use 1 1/2 - 4 tablespoonfuls per gallon of water. Do not make more than 6 applications per season. Do not apply within 66 days of harvest.

PAPAYAS: Anthracnose, Phytophthora fruit rot. Use 2-2 1/2 tablespoonfuls per gallon of water. Begin applications at flowering and continue at 14 to 21 day intervals. Direct spray to crown and blossom area. Do not make more than 14 applications per season. Applications may be made up to the day of harvest.