

829-286

09/27/2012

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U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Chemical Safety and Pollution Prevention
 Office of Pesticide Programs
 Registration Division (7504P)
 1200 Pennsylvania Ave., N.W.
 Washington, DC 20460

EPA Reg. Number: **829-286**
 Date of Issuance: **SEP 27 2012**

Term of Issuance:
Unconditional

Name of Pesticide Product:
Dithane M-45

NOTICE OF PESTICIDE:

- Registration
- Reregistration
 (under FIFRA, as amended)

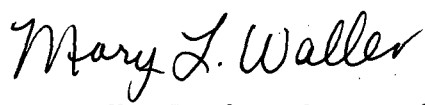
Name and Address of Registrant (include ZIP Code):
Southern Agricultural Insecticides, Inc.
P.O. Box 218
Palmetto, FL 34220

Mailed to:
 Cynthia Huffman

Note: Changes in labeling 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 EPA registration number.

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. Registration is in no way to be construed as an endorsement or recommendation of this product by the 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.

EPA received a label amendment request dated September 17, 2012. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision for mancozeb have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Signature of Approving Official:

 Mary L. Waller, Product Manager (21)
 Fungicide Branch/Registration Division/OPP/OCSP (7504P)

Date:
 9/27/2012

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Notice of Pesticide Reregistration
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Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

The basic Confidential Statement of Formula (CSF) dated 8/1/2012 referred to above, submitted in connection with reregistration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. This CSF supersedes all CSFs previously accepted for this product.

If you have any questions or comments regarding this letter, please contact Robert Westin at (703) 305-5721 or via e-mail at westin.robert@epa.gov.

Enclosure:

- Label stamped "Accepted"
- Acute Toxicity Review DP358409 dated 12/16/2008
- Product Chemistry Review DP358406 dated 12/23/2008



DITHANE M-45[®] FUNGICIDE

A BROAD SPECTRUM FUNGICIDE FOR USE ON CERTAIN VEGETABLES
AND ORNAMENTALS

ACTIVE INGREDIENT:

Mancozeb: A coordination product of zinc ion and manganese

Ethylene bisdithiocarbamate..... 80%

in which the ingredients are

Manganese++..... 16%

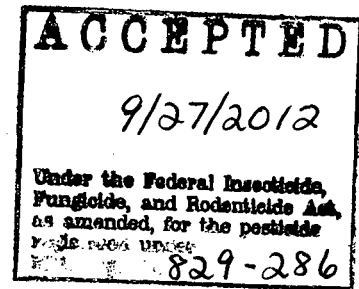
Zinc++..... 2%

Ethylene bisdithiocarbamate ion (C₄H₆N₂S₄).. 62%

OTHER INGREDIENTS:..... 20%

TOTAL 100%

*Dithane is a registered trademark of Dow AgroSciences



Keep Out Of Reach Of Children
CAUTION

FIRST AID

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 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment advice. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents, call the National Pesticide Information Center at 1-800-858-7378.

Southern Agricultural Insecticides, Inc.

P.O. Box 218 Palmetto, Fla. 34220

E.P.A. Reg. No. 829-286

Net Weight: 6 Ounces (170 gms)

EPA EST. NO. 829-FL-1

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not breathe dust or spray mist.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- * long-sleeved shirt
- * long pants
- * shoes and socks
- * Chemical-resistant gloves made of any waterproof material

In addition, all handlers must wear:

A NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations

Users should:

- *Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- *Remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.
- *Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is toxic to aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as soil or water, is:

- *Coveralls
- *Chemical-resistant gloves made of any waterproof material
- *Shoes plus socks

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides, (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses

Applications to golf courses, industrial (office park), and commercial (municipal) lawns and ornamentals grown in such areas are not within the scope of the Worker Protection Standard.

- *Keep unprotected persons out of treated area until sprays have dried.

Storage and Disposal

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

Pesticide 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. 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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside

(continued on next page)

Storage and Disposal continued
down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Product Information

Dithane[®] M-45 fungicide is a broad-spectrum protectant fungicide labeled for outdoor or greenhouse grown crops. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative 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.

Read all Directions for Use carefully before applying.

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 per 100 gallons per acre is equivalent to 1 level tablespoon per gallon spray solution.

Mixing

Observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate may be exceeded, and the most restrictive label precautions and limitations must be followed. This product may not be mixed with any product which prohibits such mixing.

Slowly place into spray tank as it is being filled. Add other co-applied fungicides, insecticides, growth regulators, micronutrients, and spray adjuvants after Dithane M-45 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 is compatible with most commonly used agricultural fungicides, insecticides and growth regulators. When preparing tank mixes, 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 sprays will improve initial spray deposits, fungicide redistribution and weatherability.

Add Dithane M-45 to the spray mixture prior to adding an adjuvant. Follow applicable use directions, precautions and limitations on the label of the adjuvant product.

Spray Drift Management

A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity) and method of application (e.g. hand sprayer) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Wind Speed

Do not apply at wind speeds greater than 15 m.p.h.

Temperature Inversions

If applying at wind speeds less than 3 m.p.h., the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of mancozeb. Where states have more stringent regulations, they must be observed.

Application

Apply by hand sprayer only. Thoroughly spray plant foliage until runoff.

Disease Monitoring

Dithane M-45 is a broad-spectrum, protectant fungicide. If not applied on a routine protectant spray schedule, crops should be scouted on a weekly basis. Make fungicide application at the labeled 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 must carefully read, understand, and follow all use restrictions prior to using Dithane M-45.

Foliar Applications: Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient Per Acre Per Season: If more than one product containing an EBDC active ingredient (maneb, mancozeb, or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Season: If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different

maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

ORNAMENTALS:

Neither the manufacturer nor the seller has determined the effects of using Dithane M-45 fungicide on ornamentals not specified on this label.

Prior to any large-scale applications on such plants, determine the effects of Dithane M-45 fungicide by testing a small section of the type of plants treated.

For outdoor or greenhouse use, apply the equivalent of 1 1/2 lb. of Dithane M-45 fungicide per 100 gallons of dilute spray. The addition of Latron B1956 to spray solutions will improve performance. Begin spraying when plants are well leafed out or at first sign of disease, in a full coverage spray at 7 to 10 day intervals throughout season.

Restrictions:

- * Cut flowers and greenhouse grown ornamentals: Limit to 20 applications per year.
- * Do not use for food or feed purposes
- * Minimum retreatment interval is 7 days
- * Not for use in residential greenhouses.

AFRICAN VIOLET: To control Botrytis blight.

ANTHURIUM: To control Anthracnose, spadix rot.

ABORVITAE: To control Cercospora blight.

ASTER, perennial: To control Puccinia rusts.

AUCUBA, japonica: To control Alternaria leaf spot, Anthracnose.

AZALEAS: To control cylindrocladium rot, petal blight phytophthora twig and bud blight. Apply a full coverage spray, 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.

BEGONIA: To control Botrytis blight.

CAMELLIAS: Petal blight. Refer to azalea.

CARNATION: To control Rust, Septoria leaf spot.

CEDAR, red (Juniper): To control Cercospora blight, Phomopsis blight.

CHRYSANTHEMUM: To control 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: To control Cercospora leaf spot.

CRAB APPLE (Ornamental): To control Cedar-apple rust, Scab, sphaeropsis leaf spot. Do not use fruit for food or feed.

DAHLIA: To control Botrytis blight.

DIEFFENBACHIA: To control Leptosphaeria brown spot.

DOGWOOD, FLOWERING: To control Anthracnose, Elsinoe 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.

ELM: To control Black leaf spot.

EUONYMUS: To control Anthracnose.

- FATSIA:** To control Anthracnose.
- FERN:** To control Rhizoctonia blight.
- FICUS:** To control Cercospora leaf spot.
- FIR, Douglas:** To control Swiss needle cast.
- FIRETHORN (Pyracantha):** To control Fusicladium scab.
- FUCHSIA:** To control Botrytis blight, Rust.
- GERANIUM:** To control Rust.
- GLADIOLUS:** To control Botrytis blossom blight, Curvularia leaf spot. Make regular weekly applications starting before diseases appears 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 lb. per 100 gallons.
- HAWTHORN:** To control Cedar-apple rust, Fabraea leaf spot, Frogeye leaf spot, Hawthorn rust, Scab.
- HOLLY:** To control Purple spot.
- HOLLYHOCK:** To control Anthracnose, Cercospora leaf spot, Puccinia rusts.
- HONEYSUCKLE:** To control Herpobasidium blight.
- HORSECHESTNUT, Buckeye:** To control Alternaria leaf spot, Guignardia leaf spot.
- HYDRANGEA:** To control Botrytis blight, Cercospora leaf spot.
- IRIS:** To control Didymellina leaf spot, mystrosporium ink spot.
- JUNIPER:** To control Phomopsis blight.
- LAUREL, mountain:** To control Cercospora leaf spot, Petal blight. Refer to Azalea comments.
- LIGUSTRUM:** To control Cercospora leaf spot.
- LILY:** To control Botrytis blight.
- MAGNOLIA:** To control Gloeosporium leaf spot.
- MAPLE :** To control Alternaria leaf spot, phyllosticta leaf spot. Do not use on trees intended for syrup production.
- MARIGOLD:** To control Botrytis blossom blight. Do not use on French dwarf double or Signet-type marigold seedlings.
- NARCISSUS:** To control Botrytis blight (fire), Smoulder.
- OAK:** To control Actinopelte leaf spot, Taphrina leaf blister.
- ORCHID (Dendrobium):** To control Botrytis blossom blight.
- PANSY:** To control Anthracnose.
- PEONY:** To control 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:** To control Cercospora leaf spot.
- PHILODENDRON:** To control Dactylaria leaf spot, Phytophthora leaf spot.
- PHOTINIA:** To control Entomosporium leaf spot.
- PLEOMELE:** To control Fusarium leaf spot.
- POINSETTIA:** To control Sphaceloma scab.
- RHODODENDRON:** To control Dactylaria leaf spot, phytophthora leaf spot. Refer to azalea.
- ROSE:** To control Black spot, Cercospora leaf spot, Rust.
- SCHEFFLERA:** To control Alternaria blight.
- SKUNKBUSH, SUMAC:** To control Cylindrosporium leaf spot.
- SNAPDRAGON:** To control Rust.
- STATICE:** To control Cercospora frogeye.
- SYNGONIUM:** To control Cephalosporium leaf spot.

TULIP: To control Botrytis blight (fire).

VENUS, FLYTRAP: To control Anthracnose.

VIBURNUM: To control Downy mildew, Ramularia leaf spot.

ZINNIA: To control Alternaria leaf blight.

Do not use on pachysandra

VEGETABLES:

Corn (sweet corn for fresh use; popcorn) to control common rust, Helminthosporium leaf blight. Use 1.5 lb of Dithane M-45/acre per application. 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. **Restrictions:** Do not apply within 7 days of harvest.

East of the Mississippi River, Arkansas and Louisiana, do not apply more than 22.5 lb. product (18 lb active ingredient) per acre per crop. West of the Mississippi River, (except Arkansas and Louisiana), do not apply more than 7.5 lb. product (6 lb active ingredient) per acre per crop.

Cucumbers: To control Anthracnose, Cercospora leaf spot, Downy mildew, Gummy stem blight, microdochium blight*, Scab. Use 2 to 3 lb of Dithane M-45/acre per application. 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. **Restrictions:** Do not apply within 5 days of harvest. Do not apply more than 24 lb product (19.2 lb active ingredient) per acre per crop.

Melons: (Cantaloupe, Casaba, Crenshaw, Honeydew, Muskmelon) To control Alternaria leaf spot, Anthracnose, Downy mildew, Gummy stem blight, microdochium blight*, use 2 to 3 lb of Dithane M-45 /acre per application. 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 cantaloupe varieties (i.e.: Harvest Queen, Gold Star, Super Star, Sweet and Early and Saticoy) are sensitive to Dithane M-45. Consult State Cooperative Extension Service specialist prior to use. **Restrictions:** Do not apply within 5 days of harvest. Do not apply more than 24 lb. product (19.2 lb active ingredient) per acre per crop.

Tomatoes: To control anthracnose, early blight, gray leaf spot, late blight, leaf mold, septoria leaf spot. West of the Mississippi River use 1.5 to 2 lb of Dithane M-45 /acre per application. Use 1.5 to 3 lb of Dithane M-45 /acre per application 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. **Restrictions:** Do not apply within 5 days of harvest. West of the Mississippi River do not apply more than 8 lb. product (6.4 lb active ingredient) per acre per crop. East of the Mississippi River do not apply more than 21 lb. product (16.8 lb. active ingredient) per acre per crop.

To control bacterial speck and spot, use a full rate of a fixed copper fungicide in tank mix combination with a half to full rate of Dithane M-45.

Limitations of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Southern Agricultural Insecticides, Inc.'s election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
- 2. Replacement of amount of product used.

To the extent permitted by law, Southern Agricultural Insecticides, Inc. shall not be liable for losses or damages resulting from handling or use of this product unless Southern Agricultural Insecticides, Inc. is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Southern Agricultural Insecticides, Inc. be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent risks of use and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Southern Agricultural Insecticides, Inc. or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

