



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (H7505C)
 401 "M" St., S.W.
 Washington, D.C. 20460

EPA Reg. Number:
 829-286

Date of Issuance:
 AUG 24 1994

Term of Issuance: Conditional

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Name of Pesticide Product:
 SA-50 Dithane M-45

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Southern Agricultural Insecticides, Inc.
 P.O. Box 218
 Palmetto, Florida 34220

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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following labeling change before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 829-286".
 - b. Add the statement "Do not apply this product through any type of irrigation system." or include labeling required by PR Notice 87-1. Chemigation directions are required due to the turf uses.
3. Submit five copies of the final printed label for the record.

Signature of Approving Official:

Carl Grable or *Steve Robbins, Acting PM 21*

Date:

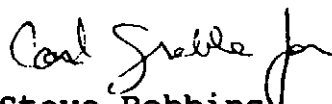
Aug 24 1994

BEST AVAILABLE COPY

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

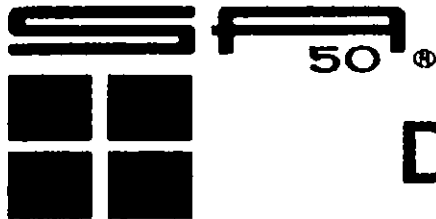
Sincerely yours,



Steve Robbins
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

} 7505C:C.Grable:cg:8/24/94



DITHANE[®] M-45

ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese

Ethylenebisdithiocarbamate..... 80%

in which the ingredients are

Manganese++..... 16%

Zinc++..... 2%

Ethylenebisdithiocarbamate ion (C₄H₆N₂S₄)..... 62%

INERT INGREDIENTS..... 20%

*Dithane M-45-reg. Trademark of Rohm and Haas Co.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA EST. NO. 829-FL-1 (3); 829-NC-1 (4); 829-NC-2 (5) Number following Est. No. corresponds to first digit in Lot No. on side of label.

Southern Agricultural Insecticides, Inc.

Palmetto, FL 34220

Hendersonville, NC 28793

Boone, NC 28607

EPA Reg. No. 829-

J2

Net Weight: 6 oz.

2 lbs.

ACCEPTED
with COMMENTS
in EPA Letter Dated

AUG 24 1994

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

829-286

BEST AVAILABLE COPY

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through the skin. May cause irritation of nose, throat, eyes, and skin. Do not breathe dust or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers (other than mixers and loaders) applying this product must wear: Coveralls over long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. Mixers and loaders must wear: Coveralls over long-sleeved shirt and long pants; waterproof gloves; shoes plus socks; Protective eyewear, Chemical-resistant apron when cleaning equipment, mixing or loading.

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

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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 fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters, or disposing of wastes.

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.

Do not apply this product by aerial application.

For foliage applications, apply 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.

BEST AVAILABLE COPY

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). The requirements in this box apply to use 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 plants, soil or water, is: Coveralls over long-sleeved shirt and long pants; Water proof gloves; Shoes plus socks; Protective eyewear.

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, nurseries or greenhouses.

Keep children, pets, and other unprotected persons out of treated area until sprays have dried.

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

4 LEVEL tablespoonfuls (1/4 cupful) of this product weighs 1 ounce

ORNAMENTALS:

Use 1 1/2 tablespoonfuls per gallon of water. 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. **ABORVITAE:** Cercospora blight. **ASTER, perennial:** Puccinia rusts. **AUCUBA, japonica:** Alternaria leaf spot, Anthracnose. **BEGONIA:** Botrytis blight. **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. **DIEFFENBACHIA:** Leptosphaeria brown spot. **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. **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 Tbls. per gallon. **HAWTHORN:** Cedar-apple rust, Fabraea leaf spot, Frog-eye leaf spot, Hawthorn rust, Scab. **HOLLY:** Purple 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**

BEST AVAILABLE COPY

Cercospora leaf spot. **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 2 lbs. per 50 gals. of water per 5,000 sq. ft. of bed. Start applications at first sign of disease and apply at least 5 applications at 10 to 14 day intervals. **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:** Dasctylaria leaf spot, Phytophthora leaf spot. **PHOTINIA:** Entomosporium leaf spot. **PLEOMELE:** Fusarium leaf spot. **POINSETTIA:** Sphaceloma scab. **SCHEFFLERA:** Alternaria blight. **SKUNKBUSH, SUMAC:** Cylindrosporium leaf spot. **STATICE:** Cercospora frog-eye. **SYNGONIUM:** Cephalosporium leaf spot. **VENUS, FLYTRAP:** Anthracnose. **VIBURNUM:** Downy mildew, Ramularia leaf spot. **CARNATION:** Rust, Septoria leaf spot. **CRAB APPLE (Ornamental):** Cedar-apple rust, Scab. **DAHLIA:** Botrytis blight. **HOLLYHOCK:** Anthracnose, Cercospora leaf spot, Puccinia rusts. **HONEYSUCKLE:** Herpobasidium blight. **IRIS:** Didymellina leaf spot. **LILY:** Botrytis blight. **PANSY:** Anthracnose. **ROSE:** Black spot, Cercospora leaf spot, Rust. **SNAPDRAGON:** Rust. **TULIP:** Botrytis blight (fire). **ZINNIA:** Alternaria leaf blight.

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.

FLOWERING DOGWOOD: 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.

TURF:

For use on Golf Courses, Sod Farms, Industrial or Municipal Turf areas and professional applications to residential lawns. Not for use by homeowners on turf. Start applications when grass greens - up in the spring or when disease first appears and repeat at 7-14 day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum use rate at 7 day intervals.

ASSORTED GRASSES: For the following turf diseases, apply the suggested rate to 1000 sq. ft. in sufficient water to provide adequate coverage. Helminthosporium Melting-out, Rust (leaf, stem, stripe), 4 ounces; Copper spot, Fusarium blight, Powdery mildew, Red thread, Slime mold, 4-8 ounces; Algae, 6 ounces; Dollar spot, 6-8 ounces; Rhizoctonia brown patch, 4 ounces at 7 day intervals; Pythium blight, 8 ounces at 5 day intervals or more frequently if conditions favor disease development; Fusarium snow mold, 6-8 ounces at 2-6 week intervals during winter.

NOTE: Do Not graze treated area, Do not use on grasses intended for grazing, such as range or pasture grasses or grasses grown for seed. Do not feed clippings to livestock.

VEGETABLES:

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 apply more than 33 tablespoonfuls per 1,000 sq. ft. per crop East of the Mississippi River and Arkansas and Louisiana. In areas West of the Mississippi River (except Arkansas and Louisiana) do not apply more than 11 tablespoonfuls per 1,000 sq. ft. per crop. Do not apply within 7 days of harvest. Do not feed treated forage to livestock.

BEST AVAILABLE COPY

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. Begin applications when plants have 2 true leaves and repeat at 7-10 day intervals. Do not apply more than 35 tablespoonfuls per 1000 sq. ft. per crop. Do not apply within 5 days of harvest.

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 apply more than 31 tablespoonfuls per 1000 sq. ft. per crop in areas East of the Mississippi River or 11 3/4 tablespoonfuls West of the Mississippi. Do not apply within 5 days of harvest.

Potatoes: Early Blight, Late Blight. Use 1 1/2-2 tablespoonfuls per gallon of water. Begin applications when plants are 4 to 6 inches high; and repeat at 5-10 day intervals. Do not apply more than 20 tablespoonfuls per 1000 sq. ft. per crop. 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.

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 apply more than 51 tablespoonfuls per 1,000 sq. ft. per crop. Applications may be made up to the day of harvest.

NOTE: This product may stain concrete and masonry surfaces.

STORAGE AND DISPOSAL

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 (Household Only): To dispose of pesticide, securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: (Household Only): Do not reuse container. Rinse thoroughly before discarding in trash.

PESTICIDE DISPOSAL (Except Household): Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL (Except Household): 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.

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

UPC CODE

BEST AVAILABLE COPY