

1 of 6
Page 1
107-2

OPEN FROM THIS END

ACCEPTED
JUL 26 1985
This product is a fungicide and is for use as directed on the pesticide registered under EPA Reg. No. 707-2

SEE FOLDER ATTACHED TO THIS CONTAINER FOR USE DIRECTIONS

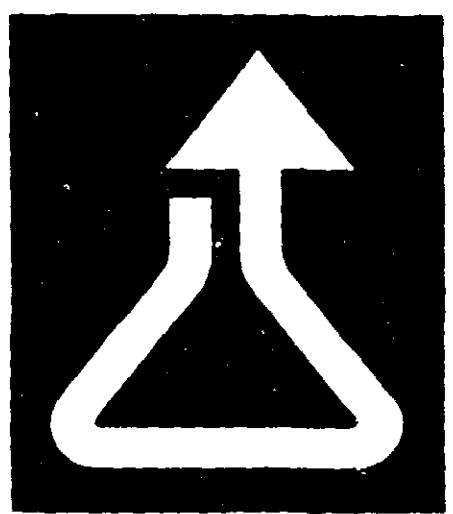
DITHANE[®] Z-78
(ZINEB)
AGRICULTURAL FUNGICIDE

KEEP OUT OF REACH OF CHILDREN

286

CAUTION

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



**ROHM
AND
HAAS**
PHILADELPHIA, PA. 19105

ACTIVE INGREDIENT

ZINEB (zinc ethylene bisdithiocarbamate) 75%
(Metallic zinc equivalent 17.7%)

INERT INGREDIENTS 25%

TOTAL 100%

EPA Reg. No. 707-2
EPA Est. No.

©Copyright 1985 Rohm and Haas Company
Dithane® is a registered trademark of Rohm and Haas Company

NET CONTENTS **50** LBS.
(22.68 KG)



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

May cause irritation of nose, throat and skin. Do not breathe dust or spray mist. In case of prolonged or frequent use, wear clean, protective clothing and bathe after each exposure.

Protective clothing consisting of long pants, long-sleeved shirt, gloves, hat and boots must be worn during mixing and loading.

STATEMENTS 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 product is toxic to fish. Do not apply directly to water or wetlands. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

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. See folder attached to this container for Use Directions.

4 of 6

RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

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. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

CAUTION

(Insert area or field description) treated with Dithane Z-78 fungicide on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to Dithane Z-78 and describe his condition. For further information see the "Statements of Practical Treatment." Oral warnings must include the same information that is in the written warnings.

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 aisles 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: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of it 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. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the solids out of the municipal sewers and open bodies of water.

REFER TO PRECAUTIONARY STATEMENTS

BEST AVAILABLE COPY

MADE IN ITALY

SEE ATTACHED USE DIRECTIONS ON BOTTOM OF THE BAG

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

May cause irritation of nose, throat and skin. Do not breathe dust or spray mist. In case of prolonged or frequent use, wear clean, protective clothing and bathe after each exposure.

Protective clothing consisting of long pants, long-sleeve shirt, gloves, hat and boots must be worn during mixing and loading.

STATEMENTS 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 product is toxic to fish. Do not apply directly to water or wetlands. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

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

RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

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. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

CAUTION

(Insert area or field description) treated with Dithane Z-78 fungicide on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to Dithane Z-78 and describe his condition. For further information see the "Statements of Practical Treatment."

Oral warnings must include the same information that is in the written warnings.

DITHANE Z-78 can be applied alone or it can be applied with various other pesticides in recommended spray schedules. It should always be used only in accordance with directions. For further details, see recommendations on this label and then consult the current State Agricultural Experiment Station spray schedules or State Extension Service Specialists.

FRUITS

GENERAL DIRECTIONS — In commercial orchards follow the State Experiment Station spray schedule for further details on dosage and timing. In home plantings apply at 1 to 2 week intervals beginning before bloom. Spray plants thoroughly.

APPLES — Apple blotch, bitter rot, black rot, Botryosphaeria fruit rot, Brooks spot, cedar rust, fly speck, frog-eye, scab, sooty blotch, quince rust. Use 1 to 2 lbs. DITHANE Z-78 per 100 gallons (10 lbs./A maximum) or ¼ to 1 lb. when used with captan or glyodin. Begin applications in delayed dormant and continue through cover sprays.

APPLES, PEARS — Fire blight. Use 2 lbs. DITHANE Z-78 per 100 gallons (apples 10 lbs./A; pears 8½ lbs./A maximum). Apply at 2 to 3 day intervals when new blooms are opening and weather is wet. Maintain recommended sanitary pruning practices. Do not apply to pears within 7 days of harvest.

Do not apply within 30 days of harvest on apples in New England, New York, Michigan, Far West and other states not specifically listed below.

Do not apply within 15 days of harvest in Arkansas, Delaware, Illinois, Indiana, Kansas, Kentucky, Maryland, Missouri, New Jersey, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia and West Virginia.

CHERRIES — Leaf spot or shot hole. Use 1 lb. DITHANE Z-78 per 100 gallons (8½ lbs./A maximum). Apply at petal fall and 10 to 20 days after petal fall and again immediately after harvest. Do not apply within 7 days of harvest.

CITRUS — To control rust mite and associated russetting and greasy spot. Use 1 lb. DITHANE Z-78 per 100 gallons (14½ lbs./A maximum). Apply when rust mites appear.

CRANBERRIES — Fruit rots. Use 2 to 3 lbs. DITHANE Z-78 per 100 gallons (8 lbs./A maximum). Apply when plants show rot and repeat about 2 weeks later or at mid-bloom.

CURRENTS — Leaf spot. Use 2 lbs. DITHANE Z-78 per 100 gallons (8 lbs./A maximum). Apply 2 to 3 weeks after bloom and again immediately after harvest. Do not apply within 7 days of harvest.

GRAPES — Black rot, downy mildew, ripe rot. Use 1½ lbs. DITHANE Z-78 per 100 gallons (4 lbs./A maximum). Apply just before bloom, just after bloom, 10 days after bloom and 2 to 3 weeks later. Do not apply within 7 days of harvest.

PEACHES, APRICOTS — Coryneum blight or shot hole, peach leaf curl. Use 2 lbs. DITHANE Z-78 per 100 gallons (peaches 8½ lbs./A; apricots 10 lbs./A maximum). Apply in post-harvest or dormant period and in popcorn to jacket stages according to the State Experiment Station spray schedule. Do not apply after petal fall on apricots or within 30 days of harvest on peaches.

STRAWBERRIES — Leaf spot. Use 3½ lbs. DITHANE Z-78 per acre using 150 to 250 gallons water for thorough coverage. Begin when new growth starts in spring and repeat as necessary. For leaf scorch apply in new beds in late summer using 2, to 3 weekly applications. Do not apply within 7 days of harvest.

VEGETABLE CROPS

GENERAL DIRECTIONS — Unless otherwise indicated on vegetables, use 3 to 4 lbs. of DITHANE Z-78 per acre in sufficient water for thorough coverage. For dilute sprays use 50 to 250 gallons of water per acre depending upon crop and stage of development. Start applications at first sign of or prior to appearance of disease symptoms and repeat as directed.

BEST AVAILABLE COPY

BEANS — Anthracnose, downy mildew, rust. Begin when first blossoms appear and repeat at 7 to 14 day intervals to within 7 days of harvest.

BEETS, TURNIPS — Cercospora leaf spot, downy mildew. Apply at 7 to 14 day intervals to within 7 days of harvest if tops are to be used as food or feed.

CABBAGE: BROCCOLI, CAULIFLOWER — Alternaria, downy mildew. Use 4 to 6 lbs. DITHANE Z-78 per acre. Apply at 7 to 14 day intervals to within 7 days of harvest. **PLANT BEDS.** — Use 3 lbs. DITHANE Z-78 per 100 gallons water plus suitable spreader. Apply at weekly intervals.

CAPSAICINES, CUCUMBERS, WATERMELONS — Alternaria blight, anthracnose, downy mildew, gummy stem blight. Apply at 7 to 14 day intervals. Cover underside of leaves thoroughly. Do not apply within 5 days of harvest.

CARROTS — Alternaria leaf blight, Cercospora leaf spot. Apply at 7 to 14 day intervals to within 7 days of harvest if tops are to be used as food or feed.

CELERY — Early and late blight. Spray plant beds at 3 to 5 day intervals. Continue field applications weekly. Remove residues remaining at harvest by stripping, washing or trimming. Do not apply within 14 days of harvest.

COLLARDS, KALE, MUSTARD GREENS, SWISS CHARD — Cercospora leaf spot, downy mildew; **SPINACH** — Downy mildew (blue mold), white rust. Apply at 7 to 14 day intervals to within 10 days of harvest.

CORN (Sweet) — Helminthosporium leaf blight, Puccinia rust. Apply when disease appears and repeat at 3 to 7 day intervals. Do not feed treated forage to dairy animals or animals being finished for slaughter.

HOPS — Downy mildew. Drench-spray the crowns when new growth starts. Spray vines at first training and repeat at 5 to 10 day intervals to within 14 days of harvest.

LETTUCE — Downy mildew. Apply at weekly intervals to within 10 days of harvest.

PEPPERS — Anthracnose ripe rot, Phytophthora. Use 4 to 8 lbs. DITHANE Z-78 per acre. Apply when disease appears and repeat at 7 to 10 day intervals.

POTATO SEED TREATMENT — Fusarium seed piece decay. Dip whole or cut tubers in 1 lb. DITHANE Z-78 per 50 gallons. Spread in cool place if held before planting. Do not use treated seed potatoes for food or feed purposes.

TOMATOES — Anthracnose, Cladosporium gray mold, early and late blight, Septoria leaf spots and Stemphylium. Use 3 to 4 lbs. DITHANE Z-78 per acre. Apply when disease appears and repeat at 7 to 10 day intervals or oftener if disease is severe. Do not apply within 5 days of harvest.

FIELD CROPS

PEANUTS — Cercospora leaf spot. Use 1½ to 2 lbs. DITHANE Z-78 per acre. Depending on the type of ground equipment the total volume of spray may vary from 12 to 30 gallons per acre. For aerial equipment the volume can vary from 5 to 10 gallons. Begin treatment when disease is first noted and continue applications at 1 to 2 week intervals depending upon severity of the disease. Do not use treated peanut hay for food or feed.

WHEAT — Leaf and stem rust. Use 2½ lbs. DITHANE Z-78 per acre in 3 to 6 gallons of water. Apply by aircraft. Begin applications when plants are in boot to early heading stage or when rust is reported in area. Repeat at weekly to 10 day intervals until milk stage. Do not apply within 3 to 4 weeks of harvest.

PLANT BEDS

TOBACCO — Blue mold. Begin applications when plants emerge or when blue mold is first reported in area. Spray regularly 2 to 3 times per week during active blue mold weather. Repeat applications immediately after a rain. Use 3 lbs. DITHANE Z-78 per 100 gals. (2 level tablespoons per gallon). Apply at 3 to 6 gals. per 100 sq. yds. of plant bed, depending on size of plants.

LETTUCE-PEPPERS — Damping-off. Drench beds weekly after seeding with ½ gal. per sq. yd. of mixture containing 1 lb. DITHANE Z-78 per 50 gals. water.

DITHANE Z-78 FOR DUSTING

DITHANE Z-78 is also available in dust form with and without insecticides from your local supplier.

NOTE — DITHANE Z-78 may be used without any spreader-sticker. When necessary to improve the spray coverage on foliage difficult to wet and to smooth out spray deposits on maturing fruit, TRITON® B-1956® is recommended. Other suitable pesticide spreader-stickers may also be used, except in situations where TRITON B-1956 is recommended as the only acceptable spreader-sticker.

ORNAMENTALS

GENERAL DIRECTIONS — Use DITHANE Z-78 at 1½ lbs. per 100 gallons or 1 level tablespoonful per gallon. Spray plants thoroughly.

AZALEAS, CAMELIAS — Petal blight. Spray 2 to 3 times a week while flowers are opening. Direct spray into flowers. Spray ground under bushes thoroughly.

CARNATION BENCHES — Fusarium root rot. Drench 3 times annually at 3 month intervals with ¼ lb. DITHANE Z-78 in 12½ gallons per 100 square feet of bench space.

CARNATIONS, CHRYSANTHEMUMS, HOLLYHOCKS, SNAPDRAGONS — Anthracnose, leaf spot, rust. Apply at weekly to 10 day intervals as soon as disease conditions threaten. For control of Botrytis petal spot and Ascochyta ray blight make applications twice weekly during the blooming season.

GLADIOLUS — Botrytis blight, Curvularia, Stemphylium. Spray at weekly intervals, or oftener under severe disease conditions, from early stages until spikes begin to open.

ROSES — Black spot. Apply at weekly intervals.

TURF GRASSES — Fading-out (Curvularia), Helminthosporium diseases, rust, slime molds. Use 2 ounces DITHANE Z-78 in 3 to 5 gallons per 1,000 square feet of turf. Begin applications as soon as diseases appear and repeat every 7 to 14 days until disease threat is past.

For Pythium blight or grease spot. Use 2 ounces DITHANE Z-78 in 3 to 5 gallons per 1000 square feet of turf. Begin applications as soon as diseases appear and repeat every 5 to 7 days when disease is mild or every 3 to 4 days when disease is severe. Continue applications until disease threat is past.

Follow State turf disease control recommendations for further details on application timing.

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 aisles 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: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of it 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. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the solids out of the municipal sewers and open bodies of water. REFER TO PRECAUTIONARY STATEMENTS.

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, 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.**

*Dithane is a registered trademark of Rohm and Haas Company.

*Copyright 1985 Rohm and Haas Company