

Protective clothing consisting of long pants, long sleeves and boots must be worn during mixing and loading.

9079-R1a

DITHANE M-45

FLOWABLE M

AGRICULTURAL FUNGICIDE

ACTIVE INGREDIENTS

A coordination product of zinc ion and manganese ethylene bisdithiocarbamate 32.0%

In which the ingredients are

Manganese	6.4%
Zinc	0.8%
Ethylene bisdithiocarbamate ion ($C_4H_6N_2S_4$)	24.8%

INERT INGREDIENTS

68.0%
100%

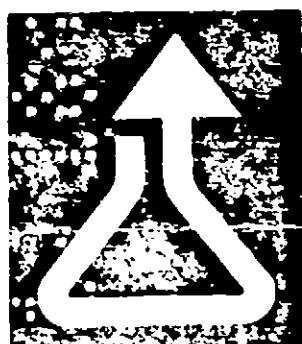
*Equivalent to 3.45 lb. of active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

Before using this product, read all additional precautionary statements, storage and disposal instructions, use restrictions and limit of warranty and liability statements on side panel and attached use directions.

EPA Reg. No. 707-162 AA
EPA Est. No. 707 PA 2
U.S. Patent 3,379,610
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NET CONTENTS
2.5 GALS
(9.46 L)



**ROHM
& HAAS**
PHILADELPHIA, PA 19105

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

May cause irritation of nose, throat, eyes and skin. Avoid contact with clothing. Avoid breathing spray mist. In case of contact, immediately wash with plenty of water. Get medical attention if irritation persists. Wash thoroughly after using and before eating or smoking. Remove contaminated clothing before reuse.

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish. Keep out of lakes, ponds or streams. When weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

PROHIBITIONS AND RECOMMENDATIONS: Do not contaminate water by storage or disposal. Open dumping is prohibited. Do not reuse container.

Keep away from fires and flames. Store in a cool place. Do not be refilled with other chemicals. Do not store in a place where children or animals can get at it. The use of this pesticide is restricted to the use of DITHANE M-45 for the control of plant diseases.

PESTICIDE DISPOSAL: Pesticide spray mixture or residue in container and use instructions must be disposed of according to applicable procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Triple rinse container, or equivalent, and add to waste. Do not reuse container for other purposes.

GENERAL: Consult Federal, State or local disposal authorities for alternative procedures such as limited open burning.

NOTICE: This pesticide is a restricted use pesticide. It may only be used by or under the direct supervision of a person who is licensed by the State of Pennsylvania to apply restricted use pesticides. For more information, consult the label or contact the Pennsylvania Department of Environmental Protection, Harrisburg, PA 17105.

MADE IN U.S.A.

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

9079-Elas

THANE M-45

FLOWABLE M

AGRICULTURAL FUNGICIDE

ACTIVE INGREDIENTS

A coordination product of zinc ion and manganese ethylene bisdithiocarbamate 32.0%
In which the ingredients are:
Manganese 6.4%
Zinc 0.8%
Ethylene bisdithiocarbamate ion ($C_4H_6N_2S_4$) 24.8%

INERT INGREDIENTS

*Equivalent: 3.4% of total weight of active ingredient

KEEP OUT OF REACH OF CHILDREN CAUTION

Before using this product, read all additional precautionary statements, storage and disposal instructions, use restrictions and limit of warranty and liability statements on side panel and attached use directions.

EPA Reg. No. 107-101-0000
EPA Reg. No. 107-101-0000
U.S. Pat. 3,345,600
© 1979 by the manufacturer

NET CONTENTS
2.5 GALS
(9.46 L)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

May cause irritation of nose, throat, eyes and skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Wash thoroughly after using and before eating or smoking. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish. Keep out of axes, ponds or streams. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

PROHIBITIONS AND RECOMMENDATIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Keep away from fires and flames. Store in accordance with label. Do not use if container is damaged. Do not use if contents are not as labeled. Do not use if contents are not as labeled. Do not use if contents are not as labeled.

PESTICIDE DISPOSAL: Pesticide spray mixture or residue that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Federal Insecticide, Fungicide and Rodenticide Act.

CONTAINER DISPOSAL: Triple rinse container, or equivalent, twice with water before recycling or disposal. Do not reuse container for other purposes.

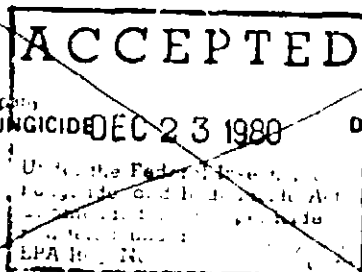
GENERAL: Consult Federal, State or local authorities for approved alternative procedures such as incineration, burning.

THANE M-45

MADE IN U.S.A.

EPA REG NO 707 162 AA
EPA EST NO 707 PA 1
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DITHANE® M-45 FLOWABLE M FUNG

EPA REG NO 707 162 AA
EPA Est. No 707 PA 1
J. R. ... and Hays Company
LOWABLE M FUNGICIDE



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

For INTRAHEM 45 FLOWABLE EM spray tank as instructed in the premix. Thoroughly mix tank to fully incorporate all tank sprayers. Add insecticide and nutrient sprays last. INTRAHEM 45 FLOWABLE EM can be applied as a broadcast application to various other pesticides as recommended spray schedules. For further details see return recommendations on this site. Then consult current State Agricultural Experiment Station spray schedules or State Entomology Service specialists for information on compatibility, dosage, timing and frequency of sprays.

ASPARAGUS — Rust Use 1 Qt. DITHANE M-45 FLOWABLE M per acre in sufficient water to provide thorough coverage. Start applications when rust first appears and repeat at 10 day intervals as long as rust persists. Four applications usually be sufficient. Apply only on asparagus ferns after spears have been harvested.

CARNOTS — A mineralized spore and cercariae. Use ETHANE M-45 FLUORABLE M at 1.4 to 1.8 oz per acre in 75 to 125 gallons of water. Start applications when disease first threatens and repeat every 7 to 10 days as needed. Do not apply within 7 days of harvest. In test use treated tops for food or feed.

CELERY FENNEL — Early to mid and late to mid. Use 3 to 4 M 45 FLOWABLE M per acre. Germinate in sufficient water for thorough coverage. After applications in the plant bed when parts first come through the ground. Make further applications at 3 to 5 days intervals until plants are in the first or last number of leaves. At this time 7 day schedule is desirable with 2 days in the first or last of 14 days of harvest for celery. Remove excess residue remaining at harvest by slipping, trimming, and washing.

CORN (sweet popcorn) — Harvest the popcorn leafy greens use (6) INCHES. Make fresh. Add 1/2 cup of water to the water in the pot. Start applying water at 10 days after planting. Harvest at 4 to 7 day intervals for 10 days, with 1 day of harvest (1) for the leafy greens to be used.

[illegible][illegible]

ONIONS (New York City)—As a rule, onions of the Matis, Malis, Impera and other winter varieties, although they are seed stock, should be stored in a cool, dark place, such as a cellar or a cold storage room. The treatment suggested for the storage of seed stock is to store them in a cool, dark place, such as a cellar or a cold storage room. Do not use the 24 pounds of seed stock for seed stock.

STATUTES - 1. The following are the statutes of the State of New York:
1. The State of New York is a free and independent state.
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9. The State of New York is a free and independent state.
10. The State of New York is a free and independent state.

POTATO SEED TREATMENT - For control of seed-borne diseases, use seed treatment with fungicide. Seed treatment is also effective against soil-borne diseases. Use of fungicide seed treatment is recommended for all potato varieties. For more information, see the section on seed treatment in the Potato Production Manual.

[illegible][illegible]

APPROX. 800 PLS PER HOUR IN THE AREA OF THE ...

Grown mostly in apples with 21 days of harvest in Arkansas Delaware Illinois Indiana Kansas Kentucky Maryland Missouri New Jersey North Carolina Ohio Pennsylvania South Carolina Tennessee Virginia & West Virginia

APPLES — DIFLAME M45 FLOWABLE M fungicide is used for controlling apple scab as a preventive for the control of apple scab on growing apple trees. It is also used for scab control on the typical brown rot blossom blight and brown rot of apple. DIFLAME M45 FLOWABLE M mixes 2 to 3 ozs of DIFLAME M45 per 100 gallons of water for a fungicide spray or 1/2 oz per 100 to 200 gallons of water for a preventive spray. The rate of 1 quart per 100 gallons begins applications at green tip and repeat at 7 to 14 day intervals as needed through cover sprays under severe disease and for use the shorter interval and the higher rate of being in the late bud stage.

Apply 200 to 500 gallons of spray per acre with hydraulic ground equipment. Use the lower volume for smaller trees (up to 12 feet) and the higher volume for larger trees. Use the equivalent amount of the products (including oil) per acre with concentrate sprayers.

Add spray oil and use the higher rate of benlate on varieties more susceptible to powdery mildew and also, if suitable, if an acceptable infestation and infection period has occurred. Apply as soon as possible after the infection period is due to be ir-
vate suit and prevent further infection.

With Golden Bellows, adverse effects on the fish and cult. may result if fish and cult. are of primary importance do not use more than 200 lbs. per unit per 100 gallons.

Do not apply within 21 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. Do not apply within 30 days of harvest in all other states. Do not graze livestock in treated orchards.

IMPORTANT: Do not use any other pesticides, such as basic copper sulfate, Bordeaux mixture, or lime sulfur, as a tank mixture with Benlate before use. D-THANE M-45 FLOWABLE M. Benlate is a superior type spray oil and must be carefully observed for compatibility statements and a letter of information appearing on the product labels.

PEARS = (Pacific Northwest Only) = Pear psylla. Effective control of young nymphs can be obtained by using 1 of the following sprays. Applications should start at petal fall and continue at 7 to 10 day intervals. As new growth occurs it must be protected by spraying 1 to 4 times of DITHANE M-45 (Fenitrothion) at 1/2 ounce per gallon. Do not exceed 75 qts. of DITHANE M-45. On Amelanchier, 1 to 3 gallon sprays should coincide with the initial appearance of pear psylla nymphs. In the following sprays to control psylla should be coordinated with State Agricultural Experiment Station workers or State Extension Service specialists.

For a test spray, 10 THANE M 45, FULVA ABLE M can be made up 1.4 to 1.6 lbs of THANE M 45, FULVA ABLE M + 100 gallons of water. Coverage 1/4 to 1/200 gallons per acre. Timing of spray should be under the direction of State Agricultural Extension Service workers.

During size livestock treatment areas On July 20, 1978 - 16 days harvest

CRANBERRIES — Fruit used. Treat M 356, formable M at 27°F. 5.5 qts per acre. Submerge water. 10 mg/gal. Sprayer. 500 gal/acre. 30 cm and repeat at 7 to 10 day intervals as required. 10 mg/gal. 30 days after harvest.

[illegible][illegible][illegible]

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BARCLAY UNIT AGREEMENT

COPIES OF THIS REPORT ARE AVAILABLE FROM THE NATIONAL ARCHIVES AT COLLEGE PARK, MARYLAND 20740-6001. FOR INFORMATION ON CURRENT AVAILABILITY OF THIS REPORT, CONTACT THE NATIONAL ARCHIVES AT COLLEGE PARK, MARYLAND 20740-6001. FOR INFORMATION ON CURRENT AVAILABILITY OF THIS REPORT, CONTACT THE NATIONAL ARCHIVES AT COLLEGE PARK, MARYLAND 20740-6001.

COTTON — Rust (Southwest only) — Use DITHANE M 45 FLOWABLE M at 1 to 1.8 qts. per acre in sufficient water for thorough coverage. Start applications when rust first appears in the area and repeat at 10 to 14 day intervals until the rust threat is past (usually 3 or 4 applications will be required). Do not apply after bolls are open. Do not graze livestock in treated areas or feed gin trash to livestock.

PEANUTS — Cercospora leaf spot and rust — Use DITHANE M 45 FLOWABLE M at 0.9 to 1.8 qts. per acre in sufficient water for thorough coverage. Start applications when disease first appears and repeat at 10 to 14 day intervals. Reduce to a 7 day interval during humid weather. Do not apply within 14 days of harvest. Do not feed treated vines to livestock.

Benomyl fungicide plus DITHANE M 45 FLOWABLE M fungicide (tank mix) for control of Cercospora leaf spot and rust. Apply with ground or aerial equipment at the rate of 1.4 qts. DITHANE M 45 FLOWABLE M plus 1/4 lb. benomyl (50%) per acre in sufficient water to obtain thorough coverage of the plants (20 to 100 gallons by ground equipment, 5 to 10 gallons for aircraft).

Begin application 35 to 40 days after planting or when disease symptoms first appear. For rust, repeat at 7 to 10 day intervals; for Cercospora leaf spot, repeat at 10 to 14 day intervals. Use the shorter interval under severe disease conditions. Do not apply within 14 days of harvest. Do not graze or feed treated vines, hay, or hulls to livestock.

Add the required amount of DITHANE M 45 FLOWABLE M and benomyl to a partially filled spray tank agitated by hydraulic or mechanical means. Continuous agitation is required to keep the material in suspension. Non-phytotoxic emulsifiable oil (60 to 70 second viscosity range) may be added to the spray mixture at the rate of 1 pint to 1 gallon per acre to improve dispersion of spray and coverage of plant foliage.

IMPORTANT Before using DITHANE M 45 FLOWABLE M and benomyl fungicides, read and carefully observe the cautionary statements and all other information appearing on product labels.

SUGAR BEETS — Cercospora leaf spot — Use DITHANE M 45 FLOWABLE M at 1.4 to 1.8 qts. per acre in 75 to 125 gallons of water. Start applications when disease first threatens and repeat every 7 to 10 days as needed. Do not apply within 14 days of harvest. Do not feed treated tops to livestock.

SEED TREATMENT

Seeds to be treated should be cleaned and well sorted prior to treatment with DITHANE M 45 FLOWABLE M.

For seed treatment, a dye must be added to DITHANE M 45 FLOWABLE M which will impart an unnatural color to the seed. Treated seed should be labeled and must not be used for food, feed, or oil purposes.

COTTON SEED TREATMENT — As an aid in establishing good stands by reducing losses caused by damping off organisms and many seedling blights, use DITHANE M 45 FLOWABLE M at 5.4 fluid ounces per 100 pounds of cotton seed, and deafer, or 11.0 fluid ounces per 100 pounds of cotton seed (regiment). Application should be made with conventional dry or slurry treating equipment. The seed must be completely and uniformly covered with fungicide. Do not use treated seed for food or feed or oil purposes.

RICE SEED TREATMENT — For the control of Achyia and certain other soil-borne seedling fungi, use DITHANE M 45 FLOWABLE M at 3.7 to 7.3 fluid ounces per 100 lbs. of dry rice seed (2.3 to 4.6 qts. per ton of seed) and apply before drying. After soaking in water, DITHANE M 45 FLOWABLE M may be applied to dry seed with conventional slurry seed treating equipment. The seed must be completely and uniformly covered with DITHANE M 45 FLOWABLE M. Do not use treated seed for food or feed purposes.

SAFFLOWER SEED TREATMENT — For control of seed-borne Pullaria carthami, Colletotrichum, and other seedling diseases as well as leaf rust disease, use 3.7 fl. oz. of DITHANE M 45 FLOWABLE M per 100 pounds of safflower seed. Application should

be made with conventional slurry equipment. The seed must be completely and uniformly covered with fungicide. Do not use treated seed for food or feed or oil purposes.

DITHANE M 45 FLOWABLE M is recommended at the rates listed for seed treating as an aid in establishing good stands by reducing losses caused by damping off organisms and many seedling blights.

	SEED TREATMENT RATE	
	Fluid Ounces/Bushel	Fluid Ounces/100 lbs
Barley	2.4	4.9
Corn (field)	2.7	4.9
Flax	3.7	6.6
Oats	2.4	7.3
Peanuts (shelled)	3.7	11.5
Rye	2.4	4.4
Sorghum	2.7	5.6
Tomatoes	—	14.7
Wheat	2.4	4.0

DITHANE M 45 FLOWABLE M may be applied to dry seed with conventional slurry seed treating equipment. The seed must be completely and uniformly covered with fungicide.

NOTE Do not use treated seed for food or feed or oil purposes.

MISCELLANEOUS USES

ASPARAGUS CROWN — For control of crown rot in planting stock, use 0.9 qts. DITHANE M 45 FLOWABLE M in 100 gallons of water to prepare a dipping suspension. Place crowns loosely packed into a burlap bag and soak with gentle agitation for 5 minutes. Remove bag, drain well and plant crowns as soon as possible. A dipping 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. It is suggested that dirty crowns be given a pre-wash to remove excess soil.

CAPRIFIG — For control of endosepsis (Fusarium fungus) and mold, prepare by cutting open then submerge for a minimum of 15 minutes in a suspension of DITHANE M 45 FLOWABLE M. Use 0.9 qts. DITHANE M 45 FLOWABLE M in 25 gallons of water (3.7 fl. ozs. in one gallon). The suspension should be stirred frequently to prevent settling out. Fresh dipping solution should be used after dipping 4 or 5 batches of capris. After treatment figs should be drained prior to placement in trees.

CONIFEROUS CHRISTMAS TREES — For control of foliage diseases incited by Lophodermium fungus in nursery plantings and newly transplanted stock, use DITHANE M 45 FLOWABLE M at a rate of 3.7 qts. of product per 100 gallons of water at 3 week intervals during the period of sprinkler irrigation and at monthly intervals during the rest of the year when the beds are not covered with snow. The addition of a suitable spreader sticker is suggested.

PINEAPPLE PROPAGATION STOCK — Preplant Dip — For control of Phytophthora leaf rot in planting material, use 2.9 qts. DITHANE M 45 FLOWABLE M in 100 gallons of water. Up to 100 gallons of dipping suspension should be used for the treatment of planting material for one acre dependent upon the size and cleanliness of planting stock. Dip planting material in the DITHANE M 45 FLOWABLE M suspension prior to planting. The suspension should be stirred frequently to prevent settling out. A new dipping solution should be prepared at least when two thirds of the volume has been used or when all but from prior material has not clearly caused the dipping suspension to discolor.

NOTE DITHANE M 45 FLOWABLE M may be used without a spreader sticker. When necessary to improve the spray coverage on foliage, Dithon B 1956® is recommended. Other suitable pesticide spreader stickers may also be used, except in situations where Dithon B 1956 is recommended as the only acceptable spreader sticker.

STORAGE AND DISPOSAL

PROHIBITIONS AND RECOMMENDATIONS Do not contaminate water, food or feed by storage or disposal. Store in original container. Do not reuse empty container. Keep away from fires and sparks. Store in a cool place. Do not use if the container is damaged. Do not use if the material is solid. This may be a hazardous material. Do not use if the material is solid. Do not use if the material is solid. Do not use if the material is solid.

PESTICIDE DISPOSAL Pesticide spray mixture or residue that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL Triple rinse if equivalent, and dispose in an incinerator or by other approved for pesticide containers or bury in a safe place.

GENERAL Consult Federal, State or local disposal authorities for approved alternative procedures such as limited open burning.

DITHANE is a trademark of FMC and may not be used by other manufacturers of similar products.

MADE IN U.S.A.

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