

GORDON'S  
 PROFESSIONAL  
 TURF & ORNAMENTAL PRODUCTS

FORMECTM 80  
 TURF & ORNAMENTAL FUNGICIDE

**ACCEPTED**

AUG 26 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 2217-426

Contains Fore(R)

ACTIVE INGREDIENTS:

A co-ordination product of zinc ion and manganese ethylene bisdithiocarbamate..... 80%

In which the ingredients are

Manganese <sup>++</sup> .....	16%
Zinc <sup>++</sup> .....	2%
Ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) <sup>=</sup> .....	62%
INERT INGREDIENTS.....	<u>20%</u>
	100%

U.S. Patents 3,379,610 and 2,974,156.  
 FORE(R) -- registered trademark of the ROHM & HAAS COMPANY.

KEEP OUT OF REACH OF CHILDREN  
 CAUTION

PRECAUTIONARY STATEMENTS

- Hazards to Humans & Domestic Animals -

CAUTION: May cause irritation of nose, throat, eyes, and skin. Do not breathe dust or spray mist. In case of skin contact, wash with water; for eyes; wash copiously with water and get medical attention. Wear protective clothing when using such as long pants, long sleeves, hat, gloves, and covering or mask for face and eyes. Wash thoroughly after each use and launder clothing before re-use.

- 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 apply directly to water or wet lands (swamps, bogs, marshes, and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes.

- Physical or Chemical Hazards -

Keep away from fire and sparks.

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NET WEIGHT POUNDS

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### DIRECTIONS FOR USE

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

#### STORAGE & DISPOSAL

**STORAGE:** Store in original container in a locked storage area inaccessible to children and pets. Do not store with or near feed or foodstuffs. Storage area must be dry and cool. Do not allow product to become wet or overheated in storage as such may bring about chemical changes which will impair the effectiveness of the product and may also generate flammable vapors. Keep bag tightly closed by rolling down top of bag to product level and taping or clipping.

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### GENERAL INFORMATION

**PROTECTIVE MEASURES:** Always spray with your back to the wind. Wear long-sleeve shirt, long pants, and rubber gloves. Wash gloves thoroughly with soap and water before removing. Change your clothes immediately after using this product and launder separately from other laundry items before reuse. Shower immediately after use.

FORMEC 80 is a unique and different fungicide which when used according to directions provides very high fungicidal activity and is safe for use on turf grasses and many ornamentals. FORMEC 80 provides proven control of most common turf grass diseases and is also effective in controlling major fungus diseases of ornamentals. Diseases of turf grass and ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable turf grass and ornamental plants. The use of a regular protective spray program will minimize the risk of disease damage and can generally be accomplished with lower rates and less frequent fungicide applications. Once diseases have become established, higher rates of fungicide and more frequent applications are required to bring them under control. Follow a regular protective spray program for maximum performance of FORMEC 80.

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Where diseases are expected to occur each year, a preventive spray program should be used. Diseases begin to develop when weather conditions become ideal for growth of the organism. This usually occurs in the spring and again in early fall. Therefore, make 3 to 5 applications of FORMEC 80 at 7 to 14 day intervals beginning in April or May and again in the early fall beginning when cool nights return in September. Repeat applications more frequently during periods of high humidity.

If preventive sprays are not used and disease develops, spray 3 or more times with FORMEC 80 at 3 to 5 day intervals. Keep turf mowed to 1-1/2 to 2 inches in height and do not water. In areas where Fusarium Snow Mold occurs, apply FORMEC 80 during the winter at monthly intervals, and especially after snow has melted. Pay particular attention to spraying in areas where snow melts slowly -- such as in shaded areas under trees and near buildings. Follow local turf disease control recommendations for details on timing of applications.

Diseases on ornamentals generally occur under the same conditions favorable to turf diseases. Preventive sprays used during warm humid periods will reduce the risk of diseases. If preventive sprays are not used and disease does develop, three or more applications of FORMEC 80 should be made at 3 to 5 day intervals to arrest the disease and protect new growth.

FORMEC 80 can be used for the control of these and other diseases:

TURF: Fusarium Blight, Red Thread, Copper Spot, Slime Molds, Helminthosporium Melting-Out, Rhizoctonia Brown Patch, Rust, Pythium Blight, Algae, Dollar Spot, and Fusarium Snow Mold.

ORNAMENTALS: Carnation -- Leaf Spot. Dahlia & Lily -- Botrytis Blight. Holly -- Purple Spot. Iris -- Leaf Spot. Rose -- Black Spot. Chrysanthemum -- Botrytis Petal Spot. Gladiolus -- Curvularia and Botrytis.

(A or B will be use depending on the subregistration label used)  
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(A)

INSTRUCTIONS -- TURF

Hose-End Sprayers: Use a lawn-type sprayer. Measure the required amount of FORMEC 80 into the jar and add just enough water to wet the powder. Stir until all the powder is wet and smooth. Add water until concentrate in the jar is up to the required level. Shake to agitate periodically while spraying. As a preventive treatment, use 20 tbs. or 1-1/3 cups, fill bottle to 10 gallons mark, and treat 1,350 sq.ft. As a control treatment, use 30 tbs. or 2 cups, fill bottle to 10 gallons mark, and treat 1,350 sq.ft.

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Pressure Sprayers: Where a hose-end lawn sprayer is not available, a pressure sprayer may be used. Measure the required amount of FORMEC 80, thoroughly wet in water and dilute in sprayer as follows. While spraying, slight agitation will keep FORMEC suspended. As a preventive treatment, use 15 tbs. or 1 cup, fill spray tank to 3 gallons mark, and treat 1,000 sq. ft. As a control treatment, use 22-1/2 tbs or 1-1/2 cups, fill spray tank to 3 gallons mark, and treat 1,000 sq. ft.

NOTE: For large scale preventive turf program, use 4 ozs. FORMEC 80 per 1,000 sq. ft. If disease has started, increase to 6 ozs. per 1,000 sq. ft. and spray at shorter intervals, i.e. once each week.

INSTRUCTIONS -- ORNAMENTALS

Hose-End Sprayers: Use a multi-purpose hose-end sprayer with 22 to 6 gallons capacity. Use 1-1/2 tbs./gal. For example, to make 3 gallons of spray, put 4-1/2 tbs. FORMEC 80 in the sprayer bottle. Be sure to thoroughly wet the powder, and then add water to the 3 gallons mark. Wet foliage until a few drops begin to run off. As a preventive treatment, use 7-1/2 tbs., fill bottle to the 5 gallons mark. As a control treatment, use 10 tbs. and fill bottle to the 5.5 gallons mark. Spray all foliage and flowers (except Gladiolus)\* until spray begins to drip off the leaves.

\*Reduce dosage by one half to spray gladiolus flower spikes.

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(B)

DILUTION TABLES -- TURF

Hose-End Sprayers: use a lawn type sprayer. Measure required amount of FORMEC 80 into jar and add just enough water to wet the powder. Stir until all powder is wet and smooth. Add water until concentrate in jar is up to the required level. Shake to agitate periodically while spraying.

AMOUNT OF FORMEC 80				Fill Bottle	Area, to
Preventive Treatment	Control Treatment			to Mark	Treat
Tbs.	Cups	Tbs.	Cups	Gallons	Sq. Ft.
2	----	3	----	1	135.
10	2/3	15	1	5	675.
20	1-1/3	30	2	10	1,350
30	2	45	3	15	2,000.

Use standard measuring spoons and cup. All volumes are level measure.

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Pressure Sprayers:

Where hose-end lawn sprayer is not available, a pressure sprayer may be used. Measure required amount of FORMEC 80, thoroughly wet in water and dilute in sprayer as follows. While spraying, slight agitation will keep FORMEC 80 suspended.

AMOUNT OF FORMEC 80		Control Treatment		Fill Spray Tank to	Area to Treat
Preventive Treatment		Tbs.	Cups	Gallons	Sq. Ft.
	Tbs.				
	Cups				
5	1/3	7-1/2	1/2	1	333
7-1/2	1/2	11-1/4	3/4	1-1/2	500
15	1	22-1/2	1-1/2	3	1,000

DILUTION TABLE -- ORNAMENTALS

Hose-End Sprayers:

Use multi-purpose hose-end sprayer with 2 to 6 gallon capacity. Use 1-1/2 tablespoons per gallon. For example, to make 3 gallons of spray, place 4-1/2 tablespoons FORMEC 80 in the sprayer bottle. Be sure to thoroughly wet the powder and then add water to the 3 gallon mark. Wet foliage until a few drops begin to run off.

AMOUNT OF FORMEC 80		Fill Bottle to		Area to Treat
Preventive Treatment	Control Treatment	Gallons	Sq. Ft.	
Tbs.	Tbs.			
1-1/2	2	1		Spray all foliage and flowers (except Gladiolus)* until spray begins to drip off leaves
3	4	2		
4-1/2	6	3		
6	8	4		
7-1/2	10	5		
9	12	6		

\*Reduce dosage by one half to spray gladiolus flower spikes.

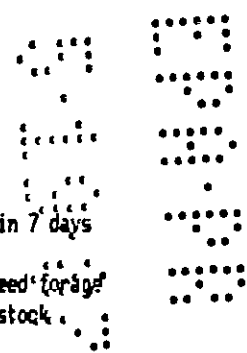
INSTRUCTIONS -- FRUITS & VEGETABLES

Always observe any listed timing restrictions between last application and harvest, to avoid the possibility of residues in excess of the tolerance established. Preharvest intervals on this label are specified so that pesticide residues will be at an acceptable level when the crop is harvested. Thoroughly spray both upper and under surfaces of foliage. Unless otherwise directed, begin when disease first appears; repeat every 7 to 10 days as needed. Spray more frequently if infestation is severe. Be sure to note the "days before harvest" restriction for each crop.

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VEGETABLES

<u>Crop</u>	<u>Disease Controlled</u>	<u>Rate per Application</u> <u>Tbs/gal/435 sq. ft.</u>	<u>Remarks</u>	<u>Restrictions</u>
Tomato	Anthraxnose (Glomerella) Early Blight (Alternaria) Gray Leaf Spot (Stemphylium) Gray Mold (Botrytis) Late Blight (Phytophthora)	1-1/2 to 3	Start foliar applications when seedlings emerge or when transplants are set in the field. Repeat at 7 day intervals.	Do not apply within 5 days of harvest.
Potatoes	Early Blight (Alternaria) Late Blight	1 to 2	Start foliar applications when plants are 4 to 6 inches high. Repeat at 7 to 10 day intervals. Begin at low rate and increase as plants grow.	
Seed Pieces	Fusarium Seed Piece Decay Scab(Streptomyces)		Dip whole or cut seed pieces in mixture of 2-1/2 Tbs/gallon water, drain, and plant immediately. If seed pieces are to be held before planting, spread out to dry in a cool place.	Do not use treated seed pieces for food or feed purposes.
Cucumbers Summer Squash Melons Cantaloupes Muskmelons Watermelons	Alternaria Leaf Blight Anthraxnose (Colletotrichum) Downy Mildew (Pseudoperonospora) Gummy Stem Blight (Mycosphaerella) Leaf Spot (Darcospora) Scab (Cladosporium)	1-1/2 to 3	Start foliar applications at the 2-leaf stage and repeat at 5 to 7 day intervals. Apply to both upper and lower leaf surfaces.	Do not apply within 5 days of harvest.
Corn (Sweet, popcorn)	Northern and Southern Corn Leaf Blights (Helminthosporium spp.) Common Corn Rust (Puccinia)	1-1/2	Start foliar applications when disease appears. Repeat at 4 to 7 day intervals depending upon the severity of infection.	Do not apply within 7 days of harvest. Do not graze or feed forage or fodder to livestock.



Onions (Dry bulb)	Botrytis Leaf Blight (Blast) Downy Mildew (Peronospora) Neck Rot (Botrytis) Purple Blotch (Alternaria)	2 to 3	Start foliar applications on a protective schedule beginning when diseases are reported in area. Repeat at 7 day intervals throughout the season.	Do not apply within 7 days of harvest. Do not apply to exposed bulbs.
Celery	Early Blight (Cercospora) Late Blight (Septoria)	2	Start foliar applications at emergence. Repeat at 3 to 5 day intervals in the plant beds, and at 7 day intervals after plants are set in the field.	Do not apply within 14 days of harvest.
Carrot	Early Blight (Cercospora Blight) Late Blight (Alternaria Blight)	1-1/2 to 2	Start foliar applications when disease first threatens. Repeat at 7 to 10 day intervals.	Do not apply within 7 days of harvest. Do not use treated tops for food or feed purposes.
Asparagus	Rust (Puccinia)	2	Start postharvest foliar applications when rust first appears. Apply as long as disease persists usually 4 applications at 10 day intervals.	Apply only on ferns after spears have been harvested.

### FRUIT CROPS

<u>Crop</u>	<u>Disease</u>	<u>Rate</u>	<u>Remarks</u>	<u>Restrictions</u>
Apples	Bitter Rot (Glomerella)	<u>Tbs/gallon</u> 1 to 2	For scab, apply at green tip or delayed dormant and repeat at 7 to 14 day intervals. For Rust, apply at blossom time and repeat at 7 to 14 day intervals. For other diseases, apply at first cover and repeat at 7 to 14 day intervals	Do not apply within 30 days of harvest for apples.
Pears	Black Rot (Physalospora)			Do not apply within 15 days of harvest for pears, crab-apples and quinces.
Crabapples	Brown Rot of Fruit (Monilinia)			Do not graze livestock in treated areas.
Quince	Flyspeck (Schizothyrium)			
	Gall Rusts (Gymnosporangium)			
	Scab (Venturia)			
	Sooty Blotch (Blowflies)			

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Cranberry	Fruit Rots	3 to 6	Begin applications at mid-bloom and repeat at 7 to 10 day intervals.	Do not apply within 30 days of harvest.
Grapes	Black Rot (Guignardia) Bunch Rot Dead Arm (Cryptosporella) Downy Mildew (Plasmopara)	1-1/2 to 4	Apply when shoots are 0.5 to 1.5 inches long, 3 to 5 inches long, and 8 to 10 inches long. Continue at 10 to 14 day intervals.	In California, Do not apply after fruit set. In areas other than California, Do not apply within 66 days.

**NOTICE:** Seller warrants that this product conforms to the ingredient statement on the label. Since conditions of use, such as weather, compatibility with other chemicals, and condition of application equipment will vary. Seller makes no claims other than those stated on this label.

EPA REG. NO. 2217-426  
EPA EST. NO. 2217-KS-1

645/587

Manufactured by PBI/GORDON CORPORATION  
KANSAS CITY, KANSAS 66118

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