

AMVAC CHEMICAL CORPORATION

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AGRICULTURAL BULLETIN

BLOCKER[™] 4F

FOR THE PREVENTION AND CONTROL OF CERTAIN SOILBORNE DISEASES ON TURFGRASS AND ORNAMENTALS

ACCEPTED

AUG 3 1 1999

Under the Federal Insecticide.
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equationed under
LFA Reg. No. 5481-472

SUPPLEMENTAL LABELING

EPA REG. NO. 5481-472

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. All applicable directions, restrictions and precautions on the EPA-registered label for BLOCKER 4F are to be followed.

This label must be in the possession of the user at the time of pesticide application.

TURFGRASS

Use as a fungicide for the prevention and control of the listed soilbome diseases which attack turfgrasses.

Diseases Controlled

Brown Patch (Rhizoctonia solani)
Dollar Spot (Sclerotinia homoeocarpa)*

Leaf Spot (Drechslera spp.)*

Gray Snow Mold (Typhula spp.)

Pink Snow Mold (Microdochium nivale)

*NOT REGISTERED FOR USE IN CALIFORNIA

For best results, use as a preventive application before diseases appear or apply at the first sign of the infection. If heavy rainfall or flooding occurs after treatment or if disease is severe or reappears, treat area again. Follow the rates and comments as listed in the table below for control of turfgrass diseases.

- NOTE:
- Apply in sufficient water to assure uniform ground coverage.
- Treated area should be watered lightly as soon as possible after the application to wash the fungicide down to the soil level.
- Apply the high rate when disease is severe and use low rate when disease pressure is light.

Disease/Host	fl. oz. BLOCKER 4F in Gallons of Water/1,000 sq. ft.	Application Directions		
St. Augustine, Bermuda & similar warm season grasses Brown Patch (Rhizoctonia solani)	16 to 24 ft, oz. in 1 - 10 gallons of water	Apply at first sign of disease. If it reappears, retreat 3 to 4 weeks later.		
Dichondra Brown Patch (Rhizoctonia solani)	16 to 24 fl. oz. in 5 - 10 gallons of water	Treat as above.		
Bluegrass, Rye, Fescue, Bent & similar cool season grasses Brown Patch (Rhizoctonia solani)	5 to 6 fl, az. in 1 - 10 gallons of water	Apply at first sign of disease. Repeat every 7 to 10 days during warm damp weather.		
All Turfgrass Species Leaf Spot (Drechslera spp.)* Dollar Spot (Scierotinia hornoeocarpa)* Do not use in California	11 to 16 fl. oz. in 1 - 10 gallons of water	For preventative, apply in spring or fall of each year. If disease is present, apply 16 fl. oz as soon as possible. If disease is severe, retreat areas 3 to 4 weeks later.		
Cool Climate Grasses Gray Snow Mold (Typhula spp.) Pink Snow Mold (Microdochium nivale)	12 to 16 ff. az. in 1 - 10 gallons of water	First treatment should be made prior to first snowfail. Reapply 6 fl. oz. at 4 to 6 week intervals if a Winter thaw and loss of snow cover occurs.		

Do not graze treated areas or feed grass clippings to livestock. Under certain growing conditions, a temporary discoloration of the grass may occasionally occur. This causes no harm and will disappear in a short time.

ORNAMENTALS

BLOCKER 4F is a preventative fungicide that can be used as a soil treatment for control of a variety of soilbome diseases of omamentals grown in greenhouses, shadehouses, nurseries, landscaping, and interiorscapes as indicated in the table below.

NOTE:

- Spray solution containing BLOCKER 4F must be continuously agitated.
- Drench or incorporate the spray solution thoroughly into the soil.
- When a rate range is shown, use the lower rates on light or coarse textured soils or when disease pressure is
 expected to be low. Use the higher rates on heavy or fine textured soils or in fields with a history of disease
 problems and when weather conditions are anticipated to be unfavorable for germination and growth of
 seedlings.

CROP	DISEASE	QTY OF BLOCKER 4F	RECOMMENDED APPLICATION				
AZALEAS	Azalea Petal Blight (Ovulinia azaleae)	1.5 pts.	Apply specified amount in sufficient water to cover 150 square feet. Apply to soil underneath the bushes and immediate surrounding area. Begin application prior to opening of buds. Repeat every 3 to 4 weeks through				
CAMELLIAS	Camellia Flower Blight (Sclerotina camelline)		bloom period.				
BEDDING PLANTS, FLOWERING PLANTS, FOLIAGE PLANTS, TROPICAL PLANTS, and WOODY PLANTS such as, but not limited	Root/Stern Rot Damping Off (Rhizoctonia solani) (Pelicularia filamentosa) Black Rot (Scierotina scierotiorum)	6 to 12 fl. oz.	follows:		H, CONTAINER & FIE	gallons of water and apply as	
			Depth of Soil (inches)		Quantity of BLOCK Fl. Oz/Sq. Ft.	(ER 4F Drench Solution • • • • • (Sq. Ft/100 gals of soin)	
to: Ajuga, Anthurium, Aphelandra, Azalea			≤ 2 3		16 24	530	
Chrysanthemum, Dianthus, Dieffenbachia, Dracaena,			≥4		32 POTTED PLAN	400 TS	
Ficus, Fittonia, Gardenia, Gynura, Hoya, Impatiens, Lilies, Marigold, Pansy,			Pot Diame (inches		Minimum Q	uantity of BLOCKER 4F Solution (Fl. Oz/Pot)	
Peperomia, Petunia, Poinsettia, Pathos, Rhododendron, Schefflera,			4 5			1.5 3	
Spathiphyllum, Syngonium Tradescantia			6 8			4 7	
Do not apply to Philodendron or Pilde as injury may occur.			10 12			13 18	
			If necessary, one repeat application may be made 4 to 6 weeks following the first application.				
		5 pts.	BROADCAST APPLICATION: Apply as a pre-plant broadcast spray prior to planting to 1,000 square feet of soil. Apply in sufficient water for uniform coverage. Thoroughly incorporate to a depth of 4 inches.				
CUT FLOWERS such as, but not limited to:	Storage Rot (Botrytis cinerea)	1 to 3 pts.			prior to storage. Mix t be maintained in dip	specified amount in 100 gallons tanks.	
Camations, Chrysanthemums, Roses			SPRAY APPLICATION: Thoroughly spray plants prior to storage. Mix specified amount in 100 gallons of water.				
HYACINTHS BULBOUS IRIS NARCISSUS TULIPS	Bultu/Root/Stern Rot (Rhizoctonia solania) (Pellicularia solania) Bultu/Crown Rot (Sclerotium rotisii) (Pellicularia rotisii) Black Rot (Sclerotinia sclerotiorum)	5 to 10 pts.	BROADCAST APPLICATION: Apply as a pre-plant broadcast spray prior to planting to 1,000 square feet of soil. Apply in sufficient water for uniform coverage. Thoroughly incorporate to a depth of 6 inches. "For Bulbous Irises, use 5 to 7 pints and incorporate to a depth of 2 to 3 inches.				
		6 to 9 pts.	IN-FURROW APPLICATION: Apply as an in-furrow spray at planting time. Apply in 5 to 10 gallons of water to 1,000 linear feet of row. Direct spray into open furrow so that it covers entire furrow and bulbs. Close furrow in normal manner. For Black Rot control, always use the higher rate.				
		3 pts.	BULB DIP: Use before planting or storing. It is important to maintain continuous agitation of dip solution to assure uniform application. Add 1% sticker to the solution. Utilize wire mesh for dipping and drain boards to return excess solution to dip tank. Dispose of unused dip solution according to "Storage and Disposal" section on this labet. Mix in 3.2 gallons of water (7.5% solution) and soak bulbs for 5 minutes.				
		12 ff. oz.	BAND APPLICATION: Mix in sufficient water for good coverage of soil. Spray a 10-inch band centered on row at planting time. Apply to 1,000 linear feet of row. Follow with 3 additional applications at 15-day intervals.				
GLADIOLUS	Dry Rot (Stromatinia gladfoli) (Sclerotinia gladfoli)	6 pts.	BROADCAST / planting to 1,00 coverage. Tho	BROADCAST APPLICATION: Apply as a pre-plant broadcast spray prior to planting to 1,000 square feet of soil. Apply in sufficient water for uniform coverage. Thoroughly incorporate to a depth of 4 to 6 inches. Bulbs may be planted immediately after planting.			
		å pts.	BAND APPLICATION: Mix in sufficient water for good coverage of soil. Spray a 12-inch band centered on row at planting time. Apply to 1,000 linear feet of row. Thoroughly incorporate to a depth of 4 to 6 inches. Bulbs may be planted immediately after incorporation.				

	C	RNAMENTAL	S (Cont'd)				
CROP	DISEASE	QTY OF BLOCKER 4F	RECOMMENDED APPLICATION				
LILIUM (Lilies)	Root/Stem Rot (Rhizoctonia solani) (Pellicularia filamentosa)	5 to 10 pts.	BROADCAST APPLICATION: Apply as a pre-plant broadcast spray prior to planting to 1,000 square feet of soil. Apply in sufficient water for uniform coverage. Thoroughly incorporate to a depth of 6 to 7 inches.				
(Sc) (Pe Ste	Bulb/Crown Rot (Scierotium rolfsil) (Pelilcularia rolfsil) Stem/Stack Rot	7 to 9 pts.	IN-FURROW APPLICATION: Apply as an in-furrow spray at planting time. Apply in 5 to 10 gallions of water to 1,000 linear feet of row. Direct spray into open furrow so that it covers entire furrow and bulbs. Close furrow in normal manner. For Black Rot control, always use the higher rate,				
	(Scierolina scieroliorum)	6 to 9 pts.	BULB DIP: Use before planting or storing. It is important to main continuous agitation of dip solution to assure uniform application, Add sticker to the solution. Utilize wire mesh for dipping and drain board return excess solution to dip tank. Dispose of unused dip solution according to "Storage and Disposal" section on container label. Mix in gallons of water and soak bulbs for 5 to 15 minutes.				
SOUTHERN PINE SEEDLINGS	Root/Stem Rot Damping Off (Rhizocionia spp.) (Pellicularia lilamentosa) Southern Pine Needle Blight (Dothistroma pini)	2 pts.	BROADCAST APPLICATION: Apply as a pre-plant broadcast spray prior to planting to 1,000 square feet of soil. Apply in sufficients water for uniform coverage. An additional ½ inch of water should be applied by irrigation prior to planting. Seed may be planted immediately after irrigation or within one week of this date.				
VEGETABLE BEDOING Root/Stem Rot PLANTS (Limited to only (Rhizoctonia solani)		6 to 12 fl. oz.	SOIL DRENCH APPLICATION: For use in nurseries or greenhouses first in 100 gallons of water and apply per the chart below.				
container-grown) Broccoli Brussels Sprouts Cabbage	(Pellicularia filamentosa)		CONTAINER GROWN PLANTS				
			Depth of Soil		e of Drench Mix.		
			(inches)	Fl. Oz/Sq. Ft.	(Sq. Ft./100 gals of soin)		
Cauliflower	1		≤2	16	800		
Peppers Tomatoes			3 ≥4	24 32	530 400		
			If necessary, one repeat application may be made 4 to 6 weeks later.				

BLOCKER is a trademark of AMVAC Chemical Corporation.

Registrant:

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