

Reg H 707-93  
11:12  
p 1 of 18

Kay L. McCarthy, Ph.D.  
Product Registration Manager  
Room and Base  
Independence Mall West  
Philadelphia, PA 19105

JUN 25 1985

Dear Dr. McCarthy:

Subject: Diker Insecticide-Rodenticide  
EPA Registration No. 707-93  
Date of Submission: May 23, 1985

The labeling referred to above has been reviewed and is being accepted on the condition that you comply with the following requirements for revising your labeling.

Add the following:

When mixing/loading and spraying, wear midforearm to elbow length chemical resistant gloves and boots or overshoes, one-piece overalls which have long sleeves and long pants, and face shield or goggles. Mixer/loaders should in addition wear a chemical resistant apron.

Any article of clothing worn while applying product must be cleaned before reusing. Clothing which has been drenched or heavily contaminated should be disposed of in accordance with state or local regulations.

Instead of clothing and equipment specified above, the applicant can use an enclosed tractor cab with filtered air supply.

Sincerely yours,

Jay S. Ellenberger  
Product Manager (12)  
Insecticide-Rodenticide Branch  
Registration Division (767)

JOB:92915;Kendrick:898-1270;RD:65/34:6/18/85;DEL:6/28/85;SG

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CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							

FOR AGRICULTURAL USE ONLY OR ONLY  
FOR SALE TO, USE AND STORAGE BY SERVICE PERSONS

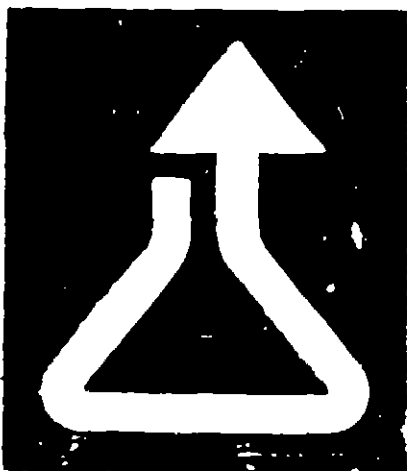
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# DIKAR®

## FUNGICIDE-MITICIDE

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Before using this product read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Precautions, and Storage and Disposal Instructions on side and back panels. 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 INGREDIENTS**

A coordination product of zinc ion and manganese ethylene bisdithio-carbamate . . . . . 72.0%

In which the ingredients are

Manganese ++ . . . . . 14.4%  
Zinc ++ . . . . . 1.8%  
Ethylene bisdithio-carbamate . . . . . 55.8%

2,4-Dinitro-6-octyl\* phenyl crotonate } . . . . . 4.4%  
2,6-Dinitro-4-octyl\* phenyl crotonate }  
Nitrooctyl\* phenols (principally dinitro) . . . . . 0.3%

**INERT INGREDIENTS** . . . . . 23.3%  
100.0%

\*A mixture of 1-methylheptyl, 1-ethylhexyl, and 1-propylpentyl isomers

EPA Reg. No. 707-93  
EPA Est. No. 707-PA-1  
U.S. Patent 3,379,610

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DIKAR is a registered trademark of Rohm and Haas Company

NET CONTENTS **5** LBS (2.268 KG)

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUN 25 1985

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended for the pesticide  
registered under EPA Reg. No.  
707-93

**BEST AVAILABLE COPY**

HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS

**CAUTION**

Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye, skin, nose and throat irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust or spray mist.

During mixing, loading and application with aerosol sprayers wear long sleeved shirt, long pants, hat, impervious gloves and boots, and goggles or face shield.

During other applications wear long sleeved shirt, long pants and hat.

Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

**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 ON SKIN:** Wash exposed areas with plenty of soap and water. If irritation persists, call a physician.

**IF IN EYES:** Flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

**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 PAMPHLET IN BOTTOM FLAP FOR USE DIRECTIONS.**

**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. **SEE USE DIRECTIONS FOR ADDITIONAL RE-ENTRY STATEMENTS.**

**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.

**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.

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# ROHM AND HAAS COMPANY

INDEPENDENCE MALL WEST  
PHILADELPHIA, PENNSYLVANIA 19106



## DIKAR<sup>R</sup> FUNGICIDE - MITICIDE EPA Reg. No. 707-93

NOTICE: 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.

### 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 DIKAR 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 DIKAR 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.

### GENERAL USE INFORMATION

DIKAR is a broad spectrum protectant fungicide and mite suppressant recommended for use on specific fruit, vegetable, turf and ornamental crops. Optimum disease control and mite suppression is achieved when a regularly scheduled preventative spray program is followed. The addition of an agricultural surfactant will improve fungicide performance by providing a more uniform spray deposit, increased foliar redistribution, and fungicide retention during periods of wet weather.

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NOTE: Under conditions of high temperature and humidity, DIKAR fungicide-miticide can injure the blossoms and foliage of some fruit, vegetable and ornamental crops. Do not apply to sensitive plant species when air temperature exceeds or is expected to exceed 90°F.

USE RATE DETERMINATION

Carefully read, understand, and follow label use rates and limitations.

Under low disease conditions, minimum label rates can be used while maximum label rates and shortened spray schedules are recommended for severe or threatening disease conditions.

For proper application, determine the number of acres to be treated, the recommended label use rate, and the gallonage to be applied per acre. Prepare only the amount of spray solution required to treat the measured acreage. Careful calibration of spray equipment is recommended prior to use.

When applied by hand sprayers, 1 pound DIKAR fungicide-miticide per 100 gallons per acre is equivalent to 1 level tablespoon per gallon spray solution.

MIXING

Slowly place into spray tank as it is being filled or thoroughly premix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides, insecticides, growth regulators, micronutrients, and spray adjuvants after DIKAR fungicide-miticide.

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing 1/3 to 1/2 the desired final water volume. Use spray solutions immediately and do not leave standing overnight.

COMPATIBILITY

DIKAR fungicide-miticide is compatible with most commonly used agricultural fungicides, insecticides, and growth regulators except spray oils, calcium arsenate, dinitro acaracides and mildewcides, and phosphorodithioate acaracides. When preparing tank mixes, user should consult spray compatibility charts or State Extension Service Specialists prior to actual use.

SPRAY ADJUVANTS

The addition of agricultural surfactants, to DIKAR fungicide-miticide sprays, will improve initial spray deposits, fungicide redistribution, and weatherability. The following spray adjuvants have been especially formulated to optimize the performance of foliar applied agricultural chemicals:

TRITON AG-98™ A low foam nonionic general purpose spray adjuvant. May be used in dilute or concentrate sprays applied by aircraft or ground equipment.

TRITON(R) 8-1956(R) A water-dispersible, resin-based nonionic surfactant which resists re-wetting and removal by rain. Effective with dilute sprays applied by ground equipment.

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TRITON CS-7™

A spreader-binder designed specifically for use in concentrate and low volume sprays applied by aircraft or ground equipment.

Place DIKAR fungicide-miticide into suspension prior to adding an adjuvant to the spray mixture. Read and carefully observe the precautionary statements and all other information appearing on both product labels prior to spray preparation.

DISEASE MONITORING

DIKAR is a broad spectrum protectant fungicide and mite suppressant. If not applied on a routine protectant spray schedule, crops should be scouted on a weekly basis. Application should be made, at the recommended label use rate and spray schedule, at the first sign of or report of disease or mites in the area, or during environmental conditions favorable for disease or mite development.

If the spray schedule is extended beyond the schedules recommended in the use directions, and powdery mildew and mites are especially severe, 1 or 2 sprays of KARATHANE<sup>(R)</sup> LC or KARATHANE WD agricultural fungicide-miticide should be used between or with the regular DIKAR fungicide-miticide application for added powdery mildew and mite control.

RESTRICTIONS:

Users should carefully read, understand, and follow all use restrictions prior to using DIKAR fungicide-miticide.

DIRECTIONS FOR USE:

Exp # 707-93  
 6-11-85  
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Crop	Diseases Controlled	Rate of DIKAR Fungicide-Miticide Per Application		Remarks (Also Refer to Directions For Use)	Restrictions
		lb./A	lb./100 gals.		
FRUITS:					
Apples	Bitter rot Black rot Brown rot Cedar-apple rust Fly speck Powdery mildew Scab Sooty blotch Mite suppression (European red, Schoene, two-spotted, clover)	8 to 10	1½ to 2	<p>Apply every 7 to 14 days throughout the season starting with a green tip or delayed dormant spray and continue through cover sprays. For low volume air blast sprays adjust the mixing rate accordingly.</p> <p>To avoid uneven, blotchy residues from high volume dilute sprays add 2 to 3 ounces TRITON B-1956 per 100 gallons of spray in the last 1 or 2 applications before harvest. Concentrate applications usually leave a uniform, even deposit.</p> <p>If the normal spray interval is extended to 2 weeks or more and powdery mildew and mites are especially severe, 1 or 2 sprays of KARATHANE LC or KARATHANE WD agricultural fungicide and miticide should be used, at recommended label rates, between the regular DIKAR fungicide-miticide applications for added mildew or mite control.</p> <p>NOTE: DIKAR fungicide-miticide has about 24 to 30 hours "backup" or eradicant activity against apple scab. If weather conditions or other delays interfere with the normal timing of a protective scab schedule, DIKAR fungicide-miticide may be augmented with an eradicant fungicide in one or more combinations or separate sprays.</p>	<p>Do not use within 14 days of harvest in AL, DE, GA, IL, IN, IA, KS, MD, MI, NC, OH, PA, TN, VA, WI, WV, or harvest in other states mentioned above.</p> <p>Do not graze treated areas until crops grown there are safe to animals.</p>

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10-11

Crop	Diseases Controlled	Rate of DIKAR Fungicide-Miticide Per Application		Remarks (Also Refer to Directions For Use)	Restrictions
		lb./A	lb./100 gals.		
Grapes	Black rot Bunch rot Deadarm Downy mildew Powdery mildew Mite suppression	1½ to 4	-	Apply in sufficient water to provide thorough coverage starting when new shoots are ½ to 1½ inches long. Repeat when shoots are 3 to 5 inches long, when shoots are 8 to 10 inches long, and then at 10 to 14 day intervals until fruit is set. <u>NOTE: Do not use DIKAR fungicide-miticide on grape varieties known to be sensitive to KARATHANE agricultural fungicide-miticide.</u> For further information, consult State Agricultural Experiment Station or State Extension Service specialists.	Do not apply within 66 days of harvest.  Do not use in California.
Pears	Refer to apples				Do not apply with 21 days of harvest.  Do not graze live stock in treated areas or feed cover crops grown in treated orchards to animals.
	Pear psylla nymphs	8 to 10	1½	Effective control of young nymphs can be obtained by using 2 to 3 consecutive 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. Timing of sprays should coincide with the initial appearance of pear psylla nymphs. Specific timing of sprays should be obtained from State Agricultural Experiment Station workers or State Extension Service specialists.	

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Reg # 707-43  
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 70512

Crop	Diseases Controlled (Postharvest sprays)	Rate of DIKAR Fungicide-Miticide Per Application		Remarks (Also Refer to Directions For Use)	Restrictions
		lb./A	lb./100 gals.		
		12 to 20	1 1/2 to 2	Use a full coverage spray of 800 to 1000 gallons spray per acre. Timing of spray should be under direction of State Agricultural or Extension Service workers.	
<b>VEGETABLES:</b>					
Cantaloupes	Alternaria leaf spot	1 1/2 to 2 1/2	-	Start application when plants are in the 2 leaf stage and repeat at 5 to 10 day intervals.	Do not apply within 7 days of harvest.
Cucumbers	Anthrachnose				
Melons	Cercospora leaf spot				
Pumpkins	Downy mildew				
Squash	Gummy stem blight			Direct spray for thorough coverage of both upper and lower leaf surfaces.	Do not use in California.
	Powdery mildew			Do not apply to crops grown in greenhouses or when field air temperatures are expected to reach or exceed 90°F.	
	Scab				

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 (192011/2722)  
 1/4/85

Crop	Diseases Controlled	Rate of BITMARE M-45 DF/75 Fungicide Per Application oz./1000 Sq. Ft.	Remarks (Also Refer to Directions For Use)	Restrictions
TURF:	Helminthosporium melting-out Rust (leaf, stem, stripe)	4	GENERAL USE DIRECTIONS: Start application when grass greens-up in spring or when disease first appears and repeat at 7 to 14 day intervals or until disease threat is past.	Do not graze treated areas.
ASSORTED GRASSES	Copper Spot Fusarium blight Powdery mildew Red thread Slime mold	4 to 8	When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 7-day spray schedule.	Do not feed clippings to livestock.
	Algae	6	Apply in sufficient water to provide adequate coverage.	
	Dollar spot	6 to 8		
	Rhizoctonia brown patch	4	Apply on a 7-day spray schedule.	
	Pythium blight	8	Apply at 5-day intervals, or more frequently, if conditions are especially favorable for disease development.	
	Fusarium snow mold	6 to 8	Apply at 2 to 6 week intervals during winter.	

(012611/327Z)



Crop	Diseases Controlled	Remarks (Also Refer to Directions For Use)	Restrictions
Ash, white	Anthracnose Cylindrosporium leaf spot		
Aster, perennial	Puccinia rusts		
Accuba Japonica	Alternaria leaf spot Anthracnose		
Azalea	Petal blight Cylindrocladium rot Phytophthora twig and bud blight	Apply in a full coverage spray, 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.	
Begonia	Botrytis blight		
Buffaloberry	Cylindrosporium leaf spot		Do not use fruit for food or feed purposes.
Camellias	Petal blight	Refer to azalea	
Carnation	Rust Septoria leaf spot		
Cedar, red (Juniper)	Cercospora blight Phomopsis blight		
Chrysanthemum	Ascochyta blight Botrytis petal spot Rust	Apply twice weekly during blooming period.	

(012611/3277)

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<u>Crop</u>	<u>Diseases Controlled</u>	<u>Remarks</u> (Also Refer to Directions For Use)	<u>Restrictions</u>
Conifers	Lophoderium needle c st 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		
Crabapple (Ornamental)	Cedar - apple rust Scab Sphaeropsis leaf spot		
Cypress, Arizona (Cupressus sp.)	Cercospora blight Monochaetia canker		
Dahlia	Botrytis blight		
Dieffenbachia	Leptosphaeria brown spot		
Dogwood, flowering	Anthracnose Elsone 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.	

(0126H/3277)

<u>Crop</u>	<u>Diseases Controlled</u>	<u>Remarks</u> <u>(Also Refer to Directions For Use)</u>	<u>Restrictions</u>
Dracaena	Fusarium leaf spot		
Elm	Black Leaf spot		
Euonymus	Anthraxnose		
Fatsia	Anthraxnose		
Fern	Rhizoctonia blight		
Ficus	Cercospora leaf spot		
Firethorn (Pyracantha)	Fusicladium scab		
Fir, Douglas	Swiss needle cast		
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 concentration to 3/4 lb. per 100 gals.	

(012611/3277)

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<u>Crop</u>	<u>Diseases Controlled</u>	<u>Remarks</u> <u>(Also Refer to Directions For Use)</u>	<u>Restrictions</u>
Hawthorn	Cedar - apple rust Fabraea leaf spot Frogeye leaf spot Hawthorn rust Scab		
Holly	Purple spot		
Hollyhock	Anthracnose Cercospora leaf spot Puccinia rusts		
Honeysuckle	Herpobasidium blight		
Horsechestnut, Buckeye	Alternaria leaf spot Guignardia leaf blotch		
Hydrangea	Botrytis blight Cercospora leaf spot		
Iris	Didymellina leaf spot Myrosporium ink spot		
Juniper	Phomopsis blight		

(012611/3272)

W. H. 7-7-75  
C.M.T.  
10/18

<u>Crop</u>	<u>Diseases Controlled</u>	<u>Remarks</u> <u>(Also Refer to Directions For Use)</u>	<u>Restrictions</u>
Laurel, mountain	Cercospora leaf spot Petal blight	Refer to azalea	
Ligustrum	Cercospora leaf spot		
Lily	Botrytis blight		
Magnolia	Gloeosporium leaf spot		
Maple	Alternaria leaf spot Phylllosticta leaf spot		Do not use on sugar maples intended for the production of maple syrup.
Marigold	Botrytis blossom blight		
Narcissus	Botrytis blight (fire) Smoulder		
Oak	Actinopelte leaf spot Taphrina leaf spot		
Orchid (Dendrobium)	Botrytis blossom blight		
Pachysandra	Volutella blight	Use a drenching spray of 2 lbs. per 50 gallons of water per 5,000 sq. ft. of bed. Start application at first sign of disease and apply at least 5 applications at 10 to 14 day intervals.	

(012611/3272)



17018

<u>Crop</u>	<u>Diseases Controlled</u>	<u>Remarks</u> <u>(Also Refer to Directions For Use)</u>	<u>Restrictions</u>
Pansy	Anthracnose	Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts.	
Peony	Botrytis blossom blight Phytophthora blight		
Peperomia	Cercospora leaf spot		
Philodendron	Dactylaria leaf spot Phytophthora leaf spot		
Photinia	Entomosporium leaf spot		
Plumele	Fusarium leaf spot		
Poinsettia	Sphaceloma scab		
Rhododendron	Cercospora leaf spot Discosia leaf spot Petal blight	Refer to azalea	
Rose	Black spot Cercospora leaf spot Rust		
Schefflera	Alternaria blight		
Skunkbush sumac	Cylindrosporium leaf spot		
Snapdragon	Rust		

(0126H/3272)

71 707-13  
11-18-58

<u>Crop</u>	<u>Diseases Controlled</u>	<u>Remarks</u> <u>(Also Refer to Directions For Use)</u>	<u>Restrictions</u>
Statice	Cercospora frogeye		
Syngonium	Cephalosporium leaf spot		
Tulip	Botrytis blight (fire)		
Venus Flytrap	Anthracnose		
Viburnum	Downy Mildew Ramularia leaf spot		
Walnut	Anthracnose		Do not use treated walnuts for food or feed purposes.
Zinnia	Alternaria leaf blight		

(01264/3272)

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