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Ms. Alice C. Walker Riverside/Terra Corporation P.O. Box 171376 Memphis, TN 38187-1376

Dear Ms. Walker:

Subject: Alternate Formulation and Deletion of Rotational Crop

Statement

Chlorothalonil 90 DF

EPA Registration No. 9779-280

Your Submission Dated June 23, 1992

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. In the re-entry section delete "wear long sleeve shirt, long pants, and gloves..." or specify "Wear long sleeve shirt, long plants, gloves, goggles or safety glasses."
 - b. Update the Environmental Hazards Statement to read:

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

The subject alternate formula is acceptable and has been included in the files for this product.

For future submissions do not submit labeling bearing the Accepted Stamp. We had to white it out on the labeling since two accepted stamps with two different dates would cause confusion if the labeling is acceptable and the date accepted.

Sincerely yours,

/3/

Cynthia Giles-Parker Product Manager (22) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

Chlorothalonil 90DF Agricultural Turf and Ornamental Fungicida (90% water dispersible granules)

ACTIVE INGREDIENT

Total 100.0%

STOP-READ LABEL BEFORE USING.

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact your local poison control center, hospital, or physician. If the patient is unconscious, maintain breathing and heartbeat (cardiopulmonary resuscitation).

IF INHALED: Remove victim to fresh air and apply respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash with soap and water.

IF IN EYES: Flush with pleuty of water for 15 minutes. Get medical attention

if irritation persists.

FIRST AID: Note to Physician: Persons having an allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids.

See additional PRECAUTIONARY STATEMENTS on back.

EPA Reg. No. 9779-280

EPA Est. No. 9779-AR-13

Manufactured For RIVERSIDE/TERRA CORP.
Terra Centre, 600 Fourth Street, Sioux City, Iowa 51101 Riverside Serves Agriculture. Agriculture Serves Everyone.

NET CONTENTS LBS.

ACCEPTED
with COMMENTS
In BPA Letter Dated:

SEP 1 | 1902

Under the Federal Insecticide ngicide, and Rodenticide Act amended, for the pesticide agistered under EPA Reg. No.



46/1

PRECAUTIONARY STATEMENTS DANGER HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive, causes severe eye damage. May be a potential skin sensitizer. Do not get in eyes; wear goggles or eye shield when handling this product. Avoid contact with skin or clothing. Do not take internally. Avoid breathing dust or spray mist. NOTE TO USER: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water. Do not apply when weather conditions favor drift from treated areas. Apply only to areas specified on label. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

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

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.

RE-ENIRY STATEMENT

Do not enter treated area to perform hand labor within 24 hours of application unless protective clothing is worn. NOTE TO USER: Wear long sleeve shirt, long pants, and gloves while mixing, loading and applying this product. 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.

NOTICE TO CROP OWNERS

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. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Oral and written warnings must include the following information: "DANGER. Area treated with Chlorothalonil on (date of application). Do not enter without appropriate protective clothing within 24 hours of application. In case of accidental exposure, wash exposed area with plency of water and get medical attention. For further information see PRECAUTIONARY STATEMENTS on the label."

BEST AVAILABLE COPT

Apply this product only through the following types of irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Experiment Station specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

- A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank of injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of Chlorothalonil 90DF for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until Chlorothalonil 90DF has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.
- B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to fourty-five minute period. Mix desired amount of Chlorothalonil 90DF for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that Chlorothalonil 90DF will remain in suspension during the injection cycle. Chlorothalonil 90DF can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until Chlorothalonil 90DF is cleared from last sprinkler head.

SAFETY DEVICES

(1) The systems designated above must contain a functional check valve, vacuum, relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. (3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.



(5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. (6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. (7) Do not

SYSTEMS CONNECTED TO PUBLIC WATER SOURCES

apply when wind speed favors drift beyond the area intended for treatment.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of fill pipe. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

For additional instructions on safety precautions, refer to statements (2),(3), (4),(6), and (7) in the section on SAFETY DEVICES.

POSTING INSTRUCTIONS

Posting of areas to be chemigated is required when any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or when chemigated area is open to the public, such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in Figlish. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of material to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least $2\frac{1}{2}$ inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.



STORAGE AND DISPOSAL DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL

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STORAGE

Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. In the event of spillage, scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel useable product in a sound container. In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

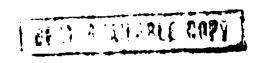
DISPOSAL

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, 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 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

Chlorothalonil 90DF is an excellent fungicile when used according to label directions for control of a broad spectrum of plant diseases. Chlorothalonil 90DF can be used effectively in dilute of concentrate sprays. Thorough, uniform coverage is essential for disease control. Do not combine Chlorothalonil 90DF in the spray tank with pesticides, surfactants or fertilizers, unless prior use has shown the combination physically compatible, effective and noninjurious under conditions of use.

Dosage rates on this label indicate pounds of Chlorothalonil 90DF per acresunless otherwise stated. Under conditions favoring disease development the high rate specified and shortest application interval should be used. Applications should be made in sufficient water to obtain adequate coverage of foliage. Gallonage to be used will vary with crop and amount of plant growth. Spray volume usually will range from 20 to 150 gallons per acre for dilute sprays and 5 to 10 gallons per acre for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application are recommended unless specific directions for ground application only are given for a crop. Application through sprinkler irrigation systems is recommended for some clops which are specified on the label below. Follow application and calibration instructions.



1711

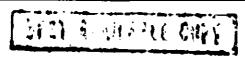
MIXING PROCEDURES: Be sure sprayer is clean and not contaminated with any other materials, or crop injury or sprayer clogging may result. Fill tank 1/4 full with clean water; start agitation. Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface. Pour product directly from atainer into tank. Let it wet and settle into water. Continue filling tank until 90% all. Increase agitation if necessary to maintain surface action. Finish filling tank. Maintain agitation during operation. Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent. Do not use on greenhouse grown crops except as directed in the Turf and Ornamental section of this label.

CROP	DISEASES	RATE PER ACRE	APPLICATION DIRECTIONS
Bean (Snap)	Rust Botrytis Blight (gray mold)	1.2-2.4 pounds 2.4 pounds	Use in sufficient water to obtain adequate coverage. Begin applications during early bloom stage or when disease first threatens and repeat at weekly intervals as necessary to maintain control. Do not apply within 7 days of harvest. Do not graze treated areas or feed treated plant parts to livestock.
Beans (Dry) Navy, Pinto, Kidney, Lima, Blackeye	Rust, Anthracnose, Downy mildew, Cercospora leaf spot (blackeye only)	1.2-1.7 pounds	Use in sufficient water to obtain adequate coverage. Begin applications during early bloom stage and repeat at 7 to 10 day intervals. For use only on beans harvested dry with pods removed. Do not apply within 6 weeks before harvest. Do not allow livestock to graze in treated areas or feed treated plant parts to livestock.
obage, _auliflower, Broccoli, Brussels sprouts	Alternaria leaf spot, Downy mildew	1.3 pounds	Use in sufficient water to obtain adequate coverage. Begin applications after transplants are set in field, or shortly after emergence of field-seeded crop, or when conditions favor disease development. Repeat at 7 to 10 day intervals or as necessary to maintain control.
	Ring spot (California only)	1.5 pounds	For field seeded Brussels sprouts, begin applications at time of early sprout development or when conditions favor disease development. Repeat at 7 to 10 day intervals or as necessary to maintain control.
Carrot	Cercospora (Early) blight, Alternaria (Late) blight	1.3-1.5 pounds	Use in sufficient water to obtain adequace coverage. Start applications, when disease threatens and repeat at 7 to 10 day intervals or as necessary to maintain control. Chlorothalonil 90DF may be applied through sprinkler irrigation equipment, See calibration directions preceding:this section.



ROP	DISEASES	RATE PER ACRE	APPLICATION DIRECTIONS
elery	Cercospora	.8-1.2 pounds	Use .8-1.2 pounds per acre on a 3 to 5
•	(Early) blight,		day spray schedule or 1.7-2.4 pounds per
	Septoria		acre on a 7 day schedule. Start applica-
	(Late) blight		tions when transplants are set in the
	Basal stalk rot	1.7-2.4 pounds	field. Apply in sufficient water to
	(Rhizoctonia	•	obtain adequate coverage. Do not apply
	solani)		within 7 days of harvest. Chlorothalonil
	Pink rot	2.4 pounds	90DF may be applied through sprinkler
	(Suppresion)	_ police	irrigation equipment as directed above.
	Early blight	1.3-1.6	For calery seedbeds, apply 125 gallons per
	Late blight	=	acre twice weekly or as needed to maintain
	Date Diight	podilas, 100 gari	control. Start applications shortly after
			crop emergence. Use the higher rate under
			severe disease conditions.
	To last while a service	65 1 6 asunda	
Corn (Sweet),	Helminthosporium	.o. pounds	Use in sufficient water to obtain adequate
Corn grown	leaf blights,		coverage. Begin applications when condi-
for seed	Rust		tions favor disease development and repeat
			at 4 to 7 day intervals or as required to
			maintain control. Under severe disease
			conditions, use 1.3-1.6 pounds per acre.
			Do not apply within 14 days of harvest.
			Do not apply to sweet corn to be process-
			ed. Do not allow livestock to graze in
			treated fields. Do not ensile treated
			corn or use as livestock forage.
Cranberries	Fruit rots,	3-1/2 to $5-3/4$	Apply at late bloom and repeat at 10 to 14
	Lophodermium	pounds	day intervals. Under severe conditions,
	leaf/twig blight		use the 5-3/4 pounds/acre rate on a 10 day
			schedule. Do not apply more than 3 times
			per season, or within 50 days before
			harvest. Do not apply to bogs when
			flooded or allow release of irrigation
			water from bogs for at least 3 days
			following application.
			Chlorothalonil 90DF may be applied through
			sprinkler irrigation equipment. Use 300
			gallons of water per acre through solid
			set systems only. See calibration direc-
			tions preceding this section.
Cucumber	Target spot,	1.3-1.6 pounds	Use in sufficient water to obtain adequate
	Anthracnose,	2.5 2.0 pounds	
	Downy mildew		coverage. Begin applications when plants
		1 6-2 /	are in first leaf stage or when con lons
	Powdery mildew	1.6-2.4 pounds	
	(except south-	`	Repeat applications at 7 day intervals.
	western states	· ·	Under severe disease conditions, shorten
	Gummy stem bligh		spray interval. Chlorothalonil 90L way
	Leaf blight, Sca	10	be applied through sprinkler irrigation
			equipment as directed above.
	Fruit belly rot	6.9 pounds	Use Chlorothalonil 90DF in sufficient
	(Rhizoctonia		water to obtain runoff to soil surface.
	solani)		Make a single application then vines
			begin to form. Chlorothalonii 90DF may be
			applied through sprinkler irrigation
			equipment as directed above.

CROP	DISEASES	RATE PER ACRE	APPLICATION DIRECTIONS
Cantaloupe,	Anthracnose	1.3-1.6 pounds	Use in sufficient water to obtain adequate
iuskmelon,	Downy wildew		coverage. Begin applications when plants
Honeydew	Cercospora leaf	1.6-2.4 pounds	are in first true leaf stage or when
melon,	spot,		conditions are favorable for disease de-
Watermelon,	Gummy stem blight	:	velopment. Repeat applications at 7 day
Squash,	(black rot),		intervals. Under severe disease condi-
Pumpkin	leaf blight,		tions, shorten spray interval. Chloro-
	Scab,		thalonil 90DF may be applied through
	Powdery mildew		sprinkler irrigation equipment. See
	(except south-		calibration directions preceding this section. PRECAUTION: Certain varieties
	western states)		of melons may be sensitive to sunburn
			following applications of chlorothalonil
			during periods of high solar intensity.
Grasses	Stem rust,	.8-1.2 pounds	Use in sufficient water to obtain adequate
grown for	Leaf rust,	.o I.z podiids	coverage. Begin applications during stem
seed	Stripe rust,		elongation when conditions favor disease
5000	Selenophoma		development. Re-apply at flag (top) leaf
	(eyespot)		emergence and at head emergence. Under
			severe disease conditions, use the 1.2
			pound per acre rate and repeat applica-
			tions at 14 day intervals. Do not apply
			within 14 days of harvest. Do not allow
			livestock to graze in treated areas or
			feed treated plant parts to livestock.
Mint	Rust,	1.2 pounds	Use in sufficient water to obtain adequate
	Septoria leaf		coverage, normally 20 to 150 gallons per
	spot		acre for dilute sprays and 5 to 10 gallons
			per acre for concentrate ground and air-
			craft applications. Begin applications
			when emerging plants are 4-8 inches high. Repeat applications at 7 to 10 day inter-
			vals or as necessary to maintain control.
			Do not apply more than 3 times per season.
			Do not apply within 80 days of harvest.
			Do not feed fresh or extracted mint hay
			from treated fields to livestock. Based
			on available residue data, use of Chloro-
			thalonil 90DF on mint is restricted to
			Indiana, Michigan and Wisconsin.
Onion (dry	Botrytis leaf	1.2-1.7 pounds	Apply in sufficient water to obtain
bulb)	blight (blast),		adequate coverage. Make the first appli-
	Purple blotch		cation at first sign of disease or when
Onion (green	Botrytis leaf	·-	
bunching),	blight (blast),		intervals for as long as conditions favor
Garlic,	Purple blotch,		disease. Use the high rate and a 7-day
Leek,	Downy mildew		schedule of applications when heavy dew or
Shallot, Onion grown	(suppression)		rain persists. Do not apply within 7 days
			before harvest of dry bulb onions of
			garlic. Do not apply more than 3 times
for seed			
			per season or within 14 days of harvest or
			green bunching onions, leeks, or shallots.



	•	,
CROP	DISEASES RATE PER ACRE	APPLICATION DIRECTIONS
apaya	Alternaria fruit 1.7-3.3 pounds	Apply with ground equipment only, in
	spot,	sufficient water to obtain adequate cover
	Anthracnose,	age of fruit and leaves. Begin treatment
	Stem end rot	when conditions favor development of
		disease and continue treatments at 14 day
		intervals until weather conditions no
		longer favor disease development. Do not
		graze livestock in treated area or feed
		processing by-products to livestock.
Danasia	Alternaria leaf 1.2-1.7 pounds	Apply in sufficient water to obtain
Parsnip	•	adequate coverage. Make the first appli-
	spot,	
	bowny mildew,	cation at the first sign of disease or when conditions are favorable for infec-
	Anthracnose,	
	Botrytis blight	tion. Continue applications on a 7 to 10
	(gray mold),	day schedule. Do not apply more than 4
	Bottom rot	times per season or within 10 days of
	(Rhizoctonia)	harvest. Do not feed treated plant parts
		to livestock.
Passion Fruit	Alternaria fruit 1.6 pounds	Apply with ground equipment in sufficient
(Hawaii only)	and leaf spot	water to obtain adequate coverage of frui
	(passion fruit	and leaves. Begin treatment when fruit
	brown spot)	spots appear (April to July) and continue
		treatments at 14 day intervals until
		weather conditions no longer favor
		disease development. Do not graze in
		treated area or feed vines or processing
		by-product to livestock used for food.
Peanut	Cercospora .8-1.2 pounds	Apply in sufficient water for coverage
	(early) leaf-	when leaf wetness first occurs or 30 to
	spot	40 days after planting. Repeat at 10 to
	Cercosporidium	14 day intervals. When conditions favor
	(late) leafspot	late leafspot or when rust or web blotch
	Rust, 1.2 pounds	occur, apply 1.2 pounds per acre at 10
	Web blotch	day intervals for the remainder of the
		season. Do not apply within 14 days of
		harvest. Do not allow livestock to graz-
		in treated areas. Do not feed hay or
		threshings from treated fields to live-
		stock. Chlorothalonil 90DF may be appli-
		through sprinkler irrigation equipment.
		See calibration directions preceding thi
		section.
Potato	Early blight .8-1.2 pounds	Use in sufficient water to obtain adequa
rocaco	Late blight	-
	Botrytis vine	coverage. Begin applications when plant
		are 6 to 8 inches high or when disease
	rot (Botrytis spp.)	threatens and continue at 7 to 10 day
	Dryland culture .65-1.2 pounds	·
	only:	control. Under severe disease condition
	Early blight	use 1.2 pounds per acre on a: 7 day
	Late blight	schedule. Chlorothalonil 90DF, may be
		applied through sprinkler pringation
		•
		equipment. See calibration directions
		preceding this section. Do not exceed a

Soybean DISEASES
Anthracnose,
Diaporthe pod

RATE PER ACRE 1.2-2 pounds or

and stem .8-1.6 pounds blight,
Frogeye leaf spot (Cercospora sojina),
Purple seed stain (Cercospora kikuchii),
Septoria brown spot

applications are scheduled. Use the three application program in areas having a history of moderate to severe disease intensity. Applications should be made at 14 day intervals. Apply in sufficient water to obtain complete coverage. A minimum of five gallons of water per acre should be used for aerial applications. Chlorothalonil 90DF may be applied through sprinkler irrigation equipment. Follow calibration directions preceding this section.

Determinate (southern) soybean varieties:

APPLICATION DIRECTIONS

Chlorothalonil 90DF at 1.2-2 pounds per

acre if two applications are scheduled

or .8-1.6 pounds per acre if three

Two application program-Make the first application at early pod set (R3 stage, when majority of pods are 1/8 to 3/8 inch in length) and the second at beginning of seed formation (R5), which occurs about 14 days later. Three application program-Make the first application at the beginning of flowering (R1), and second at early pod set (R3), and the third at beginning of seed formation (R5). Indeterminate (northern) soybean varieties: Two application program-Make the first application when the largest pods are 1 to 12 inches in length and make the second application 14 days later. Three application program-Make the first application one week after the first flowering and continue applications at 14 day intervals. Chlorothalonil 90DF may be co-applied with Benlate*50WP as a tank mix for disease control on indeterminate (northern) soybeans. Use 1.2 pounds of Chlorothalonil 90DF plus 8 ounces of Benlate 50WP per acre. Make the first application when pods near the top of plants are 2-1 inch in length and a second application 14 days later. Do, not apply Chlorothalonil 90DF within 6 weeks of harvest. Do not allow livestock to graze treated areas. Do not feed sugbean hay or threshings from treated fields to livestock.

*Benlate is a registered trademark of E. I. DuFont de Nemours and Co., Inc:

Anthracnose, 1.2-2 pounds
Diaporthe pod or
and stem .8-1.6 pounds
blight,
Frogeye leaf spot
(Cercospora sojina),
Purple seed stain
(Cercospora kikuchii),
Septoria brown spot

Do not exceed a total of three applications per_season.

APPLICATION DIRECTIONS DISEASES RATE PER ACRE)P 1.2-1.7 pounds Apply in sufficient water to obtain ade-.nato FOLIAGE: quate coverage. Begin applications when (apply every 7 dew or rain occur and disease threatens. to 10 days): Use the highest rate and shortest interval Early blight, specified when disease conditions are Late blight, Gray leafspot, severe. Chlorothalonil 90DF may be Gray leaf mold, combined in the spray tank with EPA-Septoria leafspot registered pesticide products that claim copper as the active ingredient and are FRUIT: 1.7-2.3 pounds labeled for control of bacterial diseases (apply every 7 of tomatoes. Check the copper manuto 14 days facturer's label for specific beginning at instructions, precautions and limitations fruit set): prior to mixing with Chlorothalonil 90DF. Do not use with Copper-Count*N in concen-Anthracnose. Alternaria fruit rot trated spray suspensions. Chlorothalonil (black mold). 90DF may be applied through sprinkler Rhizoctonia fruit rot, irrigation. See calibration directions Botrytis gray mold, preceding this section. Late blight fruit rot *Copper-Count is a registered trademark of Mineral Research & Development Corporation

TREE FRUITS

ply Chlorothalonil 90DF in sufficent water ad with proper calibration to obtain uniform coverage of tree canopy. Application with ground equipment is preferable to aerial application because ground applications generally give better coverage of the tree canopy. If application with ground equipment is not feasible, Chlorothalonil SODF may be applied with aircraft using at least 20 gallons per acre. When concentrate sprays are used or when treating non-bearing or immature trees, the lower rate of Chlorothalonil 90DF listed may be used. Do not allow livestock to graze in treated areas. The following spray volumes are recommended as gallons of spray per ACTA:

	SPRAY VOLUME	(Gallons per Acre)
CROP	Dilute	Concentrate
Peach,	300	20 to 150
Nectarine,	. •	
Apricot,		
Tart Cherry	,	
Plum,		
Prune		
Sweet Cherr	y 400	20 to 200



		CHLOROTHALONIL 9		
CROP	DISEASES	ACRE	100 GAL* .8-1.2	APPLICATION DIRECTIONS
ach, ctarine Apricot Cherry Plum Prune	Leaf curl, Coryneum blight (shothole)	2.6-3.4 pounds	pounds	For best control of both diseases apply at leaf fall in late autumn, using sufficient water and proper sprayer calibration to obtain uniform coverage. When conditions favor high disease levels, use the high rate of application and apply once or twice more in mid to late winter before budswell. If the leaf fall application is not practical, application of Chlorothalonil 90DF for control of leaf curl may be made at any time prior to budswell the following spring. Where Coryneum blight (shothole) occurs, also apply at budbreak to protect newly emerging leaves and at shuck split to prevent fruit infections.
	Brown rot	2.6-4.6	.8-1.2	Use 3.4-4.6 pounds per acre on
	blossom blight	pounds	pounds	trees taller than 20 ft. and 2.6 to 3.4 pounds per acre on smalle trees. Make one application at popcorn (pink, red, or early white bud) and a second application at full bloom. If weather conditions favor disease development, make an additional application at petal fall.
	Cherry leaf-	2.6-3.4	.8-1.2	In addition to the bloom appli-
	spot; peach, nectarine, apricot scab	pounds	pounds	cations listed above, make one application at shuck-split. Do not apply Chlorothalonil 90DF after shuck-split and before harvest. If additional disease control is needed before hatvest, use another registered fungicide. For control of cherry leafspot after harvest, make one application to foliage within 7 days after fruit is removed. In orchards with a history of high leafspot incidence, make a second application 10-14 days later.

^{*}Volumetric rates to be used only with full dilute spray volume specified on this label for tree fruits.

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Chlorothalonil 90DF is formulated for use on golf course tees, greens and fairways, ornamental turfgrass and ornamental herbs, shrubs and trees. It is highly effective for the control of a broad spectrum of turf and ornamental plant diseases when it is used according to the directions on this product label. Thorough, uniform coverage of plant surfaces is essential for good disease control.

fURF: Do not mow or water after treatment until spray deposit on turfgrass is thoroughly dry; Chlorothalonil 90DF should always be used in conjunction with good turf management practices.

Golf Course Fairways: Apply in 30 to 40 gallons of water per acre. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Under severe disease conditions, use the highest rate and shortest interval corresponding with the application schedule selected from the table below.

DISEASE	APPLICATION INTERVAL	APPLICATION RATES PER ACRE
Scleratinia	7-10 days	2 1/4 to 4 1/2 lbs.
Dollar Spot	14-21 days	4 1/2 to 8 lbs.
Helminthosporium	7-10 days	4 1/2 1bs.
Leafspot	14-21 days	4 1/2 to 3 lbs.
Rhizoctonia brown patch	7-14 days	4 1/2 to 8 lbs.
Anthracnose	7-14 days	7 to 14 lbs.

Golf Course Tees and Greens and Ornamental Turfgrass: Apply in an adequate amount of water to provide complete coverage. This amount may vary from 2 to 10 gallons per 1,000 square feet. See below for suggested rates and timing. Under severe disease conditions, use the curative rates and spray on a 7 day schedule.

Do not use Chlorothalonil 90DF through sprinkler irrigation equipment on golf courses.

		RATE		
DISEASE A	APPLICATION INTERVAL	Ounces Per 1,00 Preventive*	Square Feet Curative**	
Anthracnose	7-14 days	2 1/2 to 5	_	
Copper spot	7-10 days	3 1/2 to 5	5 to 6 1/2	
Curvularia leaf spot	7-10 days	1 3/4 to 3 1/2	3 1/2 to 6 1/2	
Dollar spot	7-14 days	1 3/4 to 3 1/2	3 1/2 tc 6 1/2	
Gray leafspot	7-10 days	1 3/4 to 3 1/2	3 1/2 to 6 1/2	
Helminthosporium leafspot and	·			
melting out	7-10 days	1 3/4 to 3 1/2	3 1/2 tc 6 1/2	
Large brown patch	7-10 days	1 3/4 to 3 1/2	3 1/2 to 6 1/2	
Red thread	7-10 days	1 3/4 to 5	5 to 6 1/2	
Stem rust of bluegras	ss 7-14 days	3 1/2 to 5	5 to 6 1/2	
Dichondra: Alternaria leafspot	• • •			
(California only)	7-14 days	3 1/2 to 5	5 to 6 1/2	

^{*}Recommended rates for preventing disease establishment; use lower rate when disease conditions are light to moderate, higher indicated rates when conditions are severe.

^{**}Rates for use on a 7 day schedule when disease is present. Higher indicated rate should e applied under severe conditions.



Turfgrasses - Gray snow mold caused by Typhula spp.: Apply in sufficient water to obtain lequate coverage (2 to 10 gallons per 1,000 square feet). Apply 4 1/2 to 9 ounces of lorothalonil 90DF per 1,000 square feet of turf area. Application must be made before now cover in autumn. Use the higher rate if turf layer remains frozen prior to snow cover. If snow cover is intermittent or lacking during the winter, re-apply at 4 1/2 ounces per 1,000 square feet at monthly interals until gray snow mold conditions no longer prevail. In areas where pink snow mold (Gerlachia or Fusarium patch) is likely to occur, apply at 4 1/2 ounces per 1,000 square feet in combination with either Tersan* 1991 50WP at 2 ounces per 1,000 square feet or Chipco** 26019 50WP at 4 ounces per 1,000 square feet of turf area.

*Tersan is a registered trademark of E. I. DuPont de Nemours & Company, Inc. **Chipco is a registered trademark of Rhone-Poulenc, Inc.

Fusarium (Gerlachia) Patch: For control of Fusarium patch only in areas where snow cover is intermittent or lacking during the winter, apply 4 1/2 to 8 ounces per 1,000 square feet of turf area. Begin applications in late autumn and re-apply at 21 to 28 day intervals until conditions favorable for Fusarium patch no longer prevail.

ORNAMENTALS AND CONFIFERS: Apply Chlorothalonil 90DF at a rate of 1 1/4 pounds per 100 gallons of water unless other directions are given in the tables below. Begin applications as directed for each species and disease condition cited and repeat on a 7 to 14 day schedule until conditions are no longer favorable for disease development. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, use the higher rate specified and the shortest indicated interval between applications.

rial application to conifers is permitted although ground applications generally give tter coverage. If application with ground equipment is not feasible, Chlorothalonil 90DF may be applied aerially to forest stands in 10-20 gallons of water and to Christmas trees in 10-50 gallons of water.

Chlorothalonil 90DF may be used in greenhouses. Applicators and attending personnel should wear protective clothing including long sleeves, gloves, goggles or face shield, plus a face-fitting respirator specifically designed to remove organic pesticide vapors and particulates. Do not use mistblowers or high pressure spray equipment when making applications in greenhouses.

ORNAMENTALS

SPECIES DISEASES CONTROLLED SUGGESTED FIRST APPLICATION

BROADLEAF SHRUBS AND TREES:

Ash (Fraxinus)

Azalea*
Rhododendron*
Buckeye, Horsechestnut
Cherry-Laurel
Crabapple

ywood -Euonymus Firethorn Cercospora, Cercosporidium,
Cylindrosporium leafspots
Phytophthora die-back,
Ovulinia flower blight
Leaf blotch, Anthracnose
Cercospora leafspot
Scab, Cedar-apple rust,
Sphaeropsis leafspot
Septoria leafspot
Anthracnose
Scab

Spring bud break

New leaf emergence; Early bloom Spring bud oreak Petal fall Spring bud break

Early bloom Spring bud break Spring bud break



SPECIES	DISEASES CONTROLLED	SUGGESTED FIRST APPLICATION
Flowering almond, Quince, Sand Cherry	Monilinia blossom/ branch blight	Early bloom
wthorn	Rust, Fabraea leafspot	Pre-bloom
Holly	Rhizoctonia web blight	Warm, moist conditions
Mountain Laurel	Cercospora leafspot	Spring bud break
Oak (red group only)	Taphrina blister, Actinopelte leafspot, Anthracnose	Dormant budswell
Oregon-Grape (Mahonia)	Rust	Spring bud break
Photinia	Fabrea (Entomosporium) leafspot	Spring bud oreak
Pieris (Andromeda)	Phytophthora die-back	New leaf emergence
Poplar	Marssonina leafspot	Spring bud break
Privet	Cercospora leafspot	Prolonged wet conditions
Sycamore, Planetree	Anthracnose	Spring bud break
Viburnum	Powdery mildew_	Mid-summer
BULBS AND FLOWERING PLA	NTS:	
Carnation	Alternaria leafspot/branch rot	Transplant of cuttings
Chrysanthemum/Daisy	Botrytis flower-blight Mycosphaerella ray blight, Septoria leafspot	Cool, maist conditions Transplant of cuttings
	Botrytis flower blight (gray mold)	Pre-bloom
Geranium	Botrytis blight, rust	Cool, moist conditions
Cladiolus	Curvularia leaf/flower spot, Botrytis leaf/flower spot	Early propagation
ıllyhock	Rust	Early seedling stage
Hydrangea* (foliage onl	y) Cercospora and Septoria leafspots, Rust	Early propagation
Iris	Botrytis blossom blight, Didymellina leafspot, Ink spot	Cool, moist conditions
Lily, Crocus, Daffodil, Narcissus, Tulip	-	Pre-bloom
Petunia*	Phytophthora blight (foliar phase),	Pre-bloom

Botrytis leaf blights Zinnia Powdery mildew First sign of disease *Discol-ration of blooms has been noted on certain varieties when applications are made during flowering.

Anthracnose, Cercospora, Alternaria, Spring budbreak

FOLIAGE PLANTS:

Dracaena Pachysandra (Use 2 1/4 lbs. per 100 gallons) Leatherleaf fern

Rose (Use 7/8 lb. per

100 gallons)

Statice

Fusarium leafspot Volutella leaf blight

Botrytis blight

Black spot, Botrytis blight

Spring budbreak

Ascochyta blight, Cercospora leafspot, Cylindrocladium leafspot, Rhizoctonia blight

Spring budbreak

Pre-transplant

Spring budbresk

BEST AVAILABLE COPT

SPECIES	DISEASES CONTROLLED	SUGGESTED FIRST APPLICATION
Parlor palm	Bipolaris (Helminthosporium)	Cool, moist conditions
•	leafspot	
ayer plant (Maranta)	Helminthosporium leafspot	Early propagation
ster plant (Rhoeo)	Tan leafspot	Early propagation
Syngonium	Cephalosporium leafspot	Warm, moist conditions
Philodendron	Phytophthora blight,	Moist conditions
	Dactylaria leafspot	
CONIFERS:		
CONTI BRD.	CHLOROTHALONIL 90DF	
DISEASES CONTROLLED	RATE/ACRE	APPLICATION DIRECTIONS
Rhabdocline needlecast	1 1/8 to 2 1/4 1bs.	Apply at budbreak and repeat at 3 to 4 week intervals until needles are
(Douglas-fir)		fully enlongated and conditions no
		longer favor disease development.
		In plantations of mixed provenance,
		or when irregular budbreak occurs,
		apply weekly until all trees have
		broken bud, then every 3 to 4 weeks
		as specified above. In nursery
		beds, use the high rate on a 3 week
		schedule.
Swiss needlecast	2 1/4 to 4 1/2 lbs.	Single application technique: In
Swiss needlecast	2 1/4 00 4 1/2 1001	Christmas tree plantations or forest
		stands, make one application in the
		spring when new shoot growth is 1/2
		to 2 inches in length.
.leroderris	1 1/8 to 2 1/4 lbs.	Make first application in spring
Canker (pines), Swiss		when new shoot growth is 1/2 to 2
Needlecast (Douglas-		inches in length. Make additional
fir)		applications at 3 to 4 week inter-
Sirococcus Tip Blight	1 3/4 to 3 lbs.	vals until conditions no longer
Rhizosphaera Needlecast	4 1/2 1bs.	favor disease development. In
(sprv.es), Scirrhia		nursery beds, apply the highest rate
brown spot (pines)		specified on a 3 week schedule.
Cyclaneu ma and Lopho-	2 1/4 to 4 1/2 lbs.	Apply in early spring prior to bud-
dermium needlecasts		break. Repeat applications at
(pines)		approximately 6 to 8 week intervals
		until spore release ceases in late
		fall. Apply monthly during periods
		of frequent rainfall, and where
		Lophodermium infections occur durin
		dormancy (Pacific Northwest).
		During drought periods, application
		may be suspended, then resumed upon next occurrence of needle wetness.
Botrytis seedling bligh	t. 1 1/8 to 2 1/4 1hs.	Begin applications in nursery, beds
Phoma twig blight	-, - 2,	when seedlings are 4 inches tall an
THOME THIS DIEGHT		when cool, moist conditions favor
		disease development. Make addi-
		tional applications at 7 to 14 day
		intervals as long as favorable

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NOTICE: Seller warrants that the product conforms to its chemical description of is reasonably fit for the purposes stated on the label when used in accortice with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller and Buyer assumes the risk of any such use.