## **Chemical Disease Controls for the Greenhouse Industry**



Note: An X in the table below indicates which pathogens are listed on product labels by the company selling the product. It does not guarantee that the pesticide products will provide adequate control of the pathogens listed on the label. For more information on how well pesticide products worked in research trials and for the correct rates for specific crops, contact your MSU horticultural Extension agent.



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THOME IS	Common	Comont	Veneral	12	Phyle	optimote Pything	a cylindr	adium Fusat	HIR BHILDE	solario solari	tint The	avion supply	The state of the s	S. Bally	Station Powert		NOL
4 Flowable Mancozeb	mancozeb	Lesco		24	X		X	X	X				X	X	x	X	The use of a spray adjuvant will improve performance. Do not use treated plants for food or feed purposes. Best when applied early morning or late evening when humidity is at its highest. Repeat application every 7 f
AQ 10 Alliette T/O	Ampelomyces quisqualis fosety-al	Terra		12	x	X											days. Make a miniumum of 2 sequential applications to maintain population of the AQ 10 organism. Also labeled to control downy mildew on rose. Suppresses bacterial blight caused by certain pathovars of
Banol	propamocarb	Aventis		12	X	X											Xanthomonas campestris. For use at all stages of ornamental propagation.
Banrot 8G, 40WP	hydrochloride etridiazole +	Scotts		12	x	X		x	x		x						
asamid Granular	thiophanate-methyl dazomet	TopPro		24	x	X		X	X	X	X		Х	X			Some ornamentals are very sensitive to trace amounts of gaseous product emitted during treatment. Remove all plants in the area prior to use.
Benefit	thiophanate-methyl + iprodione	Scotts		12				X	X				Х	X	X		Do not use on spathiphyllum. Do not use as drench on impatiens or pothos. Use caution when applying to cyclamen and poinsettia in bloom or color.
Bio-Trek 22G	Trichoderma harzianum	Wilbur-Ellis	0	0		X		X	X	X							<i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 to 8, at temperatures from 50 to 94 degrees F.
Bio-Trek HB	Trichoderma harzianum	Wilbur-Ellis		4		X		X	X								Bio-Trek HB is labeled as a seed treatment. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 to 8, at temperatures from 50 to 94 degrees F.
Botran 75 W Captan 80WP	dicloran captan	Gowan Micro-Flo		12 4 days								X X	X	X X		x	Also controls damping-off of cuttings (see label for specific crops). Do not spray crops listed on the label
Captec 4L	captan	Micro-Flo		4 days								X	X	x		x	beyond the point of drip from the leaf surface. Also controls damping-off of cuttings (see label for specific crops). Do not spray crops listed on the label be the point of drip from the leaf surface. Open greenhouse vents during and for at least one hour after application
Cavalier 2G,	thiophanate-methyl	Lesco		12			X	X	X	X	X			X			Cavalier G is not labeled for leaf/flower spots or blights. Cavalier 2G is labeled to control <i>Botrytis</i> rot, while Cavalier 4.4 F and 50 WSB are labeled to control <i>Botrytis</i> blight. It is not recommended to incorporate Cava
4.5 F, 50 WSB	hudewide.	A-1-1											v	X	Y		with potting mix for plug trays or seedling flats. Apply after transplanting. Also labeled for bacterial diseases on certain crops (see label). Dry prill is a formulation resulting in
Champ DP, Formula 2F Champion WP	copper hydroxide	Agtrol	0	24 48									X	x	x		virtually no dust. Also controls bacterial leaf spot on certain crops (see label) and downy mildew on pansy and snapdragon.
Chipco 26019	iprodione	Aventis		12			x	X	X			x	X	X			Do not apply to hibiscus in flower. To avoid residues on commercial plants, do not spray just before selling. Do not use as a soil drench on impatiens or pothos. A resin-based surfactant should be added to foliar spray
ipco Aliette WDG	fosety-al	Aventis		12	x	X											for use on iris, lilies and tulips. Can also be used to control downy mildew on roses and bacterial blight caused by certain pathovars of <i>Xanthomonas</i> on English ivy, schefflera, anthurium and dieffenbachia. Applications should be made prior
			-												x		to disease development. Apply in early morning or late afternoon. Not recommended on arbor, begonia, orchids or poinsettia bracts.
Cinnamite	cinnamaldehyde	Mycotech	0	4											^		Apply in early morning of fate alternoon. Not recommended on arbor, begoina, orbitals of poinsetta bracts. Also controls mites, aphids, liverworts, hornworts and pearlworts. The use of a benign spreader should be used when treating for powdery mildew.
Cleary's 3336F, G, GC, WP	thiophanate-methyl	W. A. Cleary		12			X	X	X	X	X	Х	Х	X	X	Х	Cleary's 3336G, GC are not labeled for leaf/flower spots or blights. Use of a wetting agent is recommended with F and WP. Not recommended for use on Swedish ivy, Boston fern or Easter cactus.
Compass	trifloxystrobin	Olympic		12					X				Х	X	X	X	Also controls downy mildew. Applications to poinsettia after bract formation may cause injury. May cause injury to petunia, violet and New Guinea impatiens.
Consan Triple Action 20	quaternary ammonium chlorides	Parkway Research . Corp		48			X	X	X	X		X	X	X	X	X	Also controls downy mildew. Also labeled as a greenhouse disinfectant.
ConSyst WDG	chlorothalonil + thiophanate-methyl	Regal		48									Х	X	Х		Labeled as fungistatic to <i>Pythium</i> diseases when used in a regular program. Also labeled for downy mildew
ontrast 70 WSP Curalan DF, EG	flutolanil vinclozolin	Scotts TopPro		12 12					X	X		X X	Х	X		X	Use with a surfactant may improve coverage. Curalan DF not labeled for bulb/corm rot. Poinsettias: do not spray in color or after Nov. 1; some cultivars
Cygnus	kresoxim-methyl	TopPro		12											X		may be sensitive to leaf spotting, do not use on cv. V-14 Glory. Do not make more than 6 applications per season.
Daconil 2787F, ex, Weather Stik,	chlorothalonil	Syngenta		48	X		X	X	X	X			X	X	X	X	Do not apply to either green or variegated pittosporum or schefflera. Daconil Ultrex has an REI of 12 hours.
Zn Decree 50 WDG	fenhexamid	SePRO		4										X			This product should be used in a program with other fungicides to provide season-long protection. Avoid ma more than 2 consecutive applications of this product. After the 2nd application, use an alternative Botryticio
fend 10G, 75WP	quintozene	W. A. Cleary		12					X	X		x	X	X			2 consecutive sprays before reapplying this product. Defend 10G is not labeled for <i>Botrytis</i> . Defend 75WP is labeled for <i>Botrytis</i> storage rot. Do not apply to
Deny	guintozene Burkholderia cepacia	Stine Microbial	0	4		X		X	X								philodendron or pilea since injury may occur.
ithane T/O, WF	mancozeb	Rohm & Haas	-	24	X		X	X	X				X	X		X	Use with a surfactant will improve performance. Do not apply on French dwarf double or signet-type marige seedlings. Do not use for food or feed purposes. Apply twice weekly to chrysanthemums during blooming p
agon Mancozeb	mancozeb	Dragon Chemical Corp.	0	24	X		X	X	X				X	X		X	Also labeled for bacterial spot. Do not use on French dwarf double or signet-type marigold seedlings.
uosan WP, WSB	thiophanate-methyl + mancozeb	Scotts		24				X	X	X			Х	X	X	X	Also controls downy mildew. Do not use on French marigold or gloxinia.
Echo 75 WDG, IODF, 500, 720	chlorothalonil	Sipcam		12	X		X	X	X				Х	X	X	Х	Echo 90DF and 720 has an REI of 12 hours. Discoloration of azalea, hydrangea and petunia blooms has been noted on certain varieties when applications are made during flowering.
Engage 10G kotherm Termil	quintozene chlorothalonil	UHS Rigo	0	12 48					X	X		X		X			Do not use on philodendron or pilea since injury may occur. Do not apply when greenhouse temperature is above 75 degrees F. Discoloration of blooms has been noted
ore 80, WSP, XL	mancozeb	Rohm & Haas		24	x		X	X	X				X	x		X	some varieties. The addition of a spreader-sticker will improve fungicide performance. Do not apply on French dwarf double
Fungo Flo	thiophanate-methyl	Scotts		12			X	X	x	X	X	X	X	X	X		or signet-type marigold seedlings. Do not use treated plants for food or feed purposes. Also controls <i>Penicillium</i> rots when used on preplanted bulbs. Addition of surfactant improves distribution of product on hard-to-wet plants such as roses.
Green-Shield	quaternary ammonium chlorides	Whitmire Micro-Gen		12			X	X	X	X	X			X			Labeled as a greenhouse disinfectant to reduce cross contamination of such diseases as root rot, crown rot, Botrytis, downy mildew and tobacco mosaic virus.
Heritage	azoxystrobin	Syngenta		4	X			X	X				X	X	X	X	The addition of a non-silicone based wetter-sticker is recommended to enhance coverage. Also controls do mildew on rose. To reduce possible resistance, do not make more than 3 sequential applications before all
Junction	mancozeb	Griffin		24	x								X	x	x	X	with a fungicide with a different mode of action. Do not apply in a spray solution of pH less than 6.0. Also controls certain bacterial diseases (see label).
											1						Avoid spraying azaleas, carnations, chrysanthemums and roses just prior to selling season due to possible and/or bloom discoloration. Not recommended for use on French marigold. Do not use treated plants for fo
ide 4.5LF, 101, LF	copper hydroxide	Griffin	0	24	X								X	x	X		feed purposes. Do not use in a spray solution of pH less than 6.5. Also controls bacterial leaf spot on certain crops. Disco of foliage and/or blooms of some crops has been noted. To prevent residues on commercial plants, do not
Kocide 2000	copper hydroxide	Griffin	0	24	×								X	x	x		just before selling season. Kocide 2000 T/N/O is not labeled for use on vegetables. Also controls bacterial leaf spot on certain crops (s
T/N/O, DF OP-Hydroxide 50	copper hydroxide	Drexel		48								x	X	X	X		and downy mildew on pansy. Discoloration of foliage and/or blooms of some crops has been noted. Do not use in a spray solution of pH less than 6.5 or greater than 9.0. Also controls bacterial leaf spot on c
																	cultivars. Discoloration of azalea, carnation, chrysanthemum, ivy and rose foliage and/or blooms has been some varieties. To prevent residues on commercial plants, do not spray just before selling season.
ancozeb 4F, DG icure 6 Flowable,	mancozeb chlorothalonil	Lesco Lesco		24 48	X X		X X	X X	X X	X			X	X X	X	X X	The use of a spray adjuvant will improve performance. Do not use treated plants for food or feed purposes. Do not use on green or variegated pittosporum or schefflera due to possible phytotoxicity. Discontinue use
Ultrex Medallion	fludioxonil	Syngenta		12			X	X	X		X		X	X			poinsettia bract formation due to possible phytotoxicity. Drench or at-seedling applications to impatiens or New Guinea impatiens may cause stunting and/or chloros
Micro Sulf	sulfur	Agtrol	0	24									Х		X		Greenhouse-grown crops may be much more sensitive to sulfur injury, so the lowest rate should be tried init Also controls two-spotted mite.
Mycostop	Streptomyces griseoviridis	AgBio	0	4	X	X		X	X					X			
I-Cop 3L, 50 DF Ornalin FL	copper hydroxide vinclozolin	Micro-Flo Scotts	0	24 12	X					X		X	X	X X	X		Also labeled for downy mildew and bacterial leaf spot on certain crops (see label). Ensure that plants dry off quickly after treatment. Do not spray stressed plants. Do not drench growth medi
	11 11 11 11			10			×			x			X	v	v	x	not spray seedlings until formation of 3 true leaves. Do not spray poinsettias in color or after Nov. 1. Some cultivars may be sensitive to leaf spotting. Do not use on poinsettia cv. V-14 Glory.
hGuard 6F, 90DF Pentathlon	chlorothalonil maneb	Whitmire Micro-Gen Griffin		12 24	X X		X X	X	X	×			X	X	^	X	Do not use on french dwarf double or signet-type marigold seedlings. Also controls Cylindrocladium on aza
Pentathlon DF Physan 20	maneb & zinc ion quaternary	Griffin Maril		24 12	x	X	X	X X	X X			X	X X	X X	X	X X	This product is not recommended for use on marigolds due to highly variable plant responses. Also labeled for downy mildew and certain bacterial diseases (see label). Also labeled for use as a disinfe
	ammonium chlorides	0												Y	v	x	greenhouse work areas and equipment to prevent cross-contamination of fungal and bacterial pathogens, a mildews and TMV. Also controls <i>Erwinia</i> on a variety of ornamental plants (see label). <i>Pseudomonas</i> on geranium and impatie
Phyton 27	copper complex	Source Technology SePRO		24	X		X		X					^	^ X	^	Also controls <i>Erwinia</i> on a variety of ornamental plants (see label), <i>Pseudomonas</i> on geranium and impatie <i>Xanthomonas</i> on begonia and geranium, and downy mildew on snapdragons. Use caution when applying to poinsettia bracts and begonias. Do not treat hydrangea after flower buds are
Pipron 84.4 LC Plant Shield	piperalin Trichoderma harzianum	SePRO Bioworks, Inc.	0	240		X	x	x	X	X	X	X	/	X	X		Use with a non-ionic spreader-sticker is recommended when applying to foliage or stem. Can be applied in hydroponic systems and subirrigation. Also labeled for <i>Myrothecium</i> and downy mildew. <i>Trichoderma harz</i>
J	1	Dioworks, inc.														x	strain T-22 will colonize roots in all types of growing media, at pH 5 to 8, at temperatures from 50 to 94 deg Do not mix with insecticides and acaricides since plant injury may occur.
Plantvax 75W	oxycarboxin	Uniroyal		12		X											Also controls downy mildew on rose and suppresses bacterial blight caused by certain pathovars of Xanthor campestris.
	oxycarboxin fosetyl-Al	,		12	X	^					1.1			1		X	Also labelled for downy mildew. The addition of a spreader-sticker will improve fungicide performance.
Prodigy 80 DG		Uniroyal			X X X	X	X		X				X	X		X	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a
Prodigy 80 DG otect T/O 80WSP Quell	fosetyl-Al mancozeb mefenoxam	Uniroyal Lesco W. A. Cleary Uniroyal		12 24 48	^		X						X	X		×	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a
Revere 10G Revere WSP T/O	fosetyl-Al mancozeb mefenoxam quintozene quintozene	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco		12 24	^	X	X		X X X X	X		X	X	X		X	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. I apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur.
Prodigy 80 DG otect T/O 80WSP Quell Revere 10G	fosetyl-Al mancozeb mefenoxam quintozene	Uniroyal Lesco W. A. Cleary Uniroyal Lesco	0	12 24 48 12	^	X	X	X	X	X	X	X		X		×	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. I apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when tem remains cold. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5
Prodigy 80 DG otect T/O 80WSP Quell Revere 10G Revere WSP T/O RootShield Rubigan EC	fosetyI-AI mancozeb mefenoxam quintozene quintozene <i>Trichoderma harzianum</i> fenarimol	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc. SePRO	0	12 24 48 12	X	X X X X	X	X	X	X	X	×X		X	X	*	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. I apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when tem remains cold. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F.
Prodigy 80 DG Dtect T/O 80WSP Quell Revere 10G Revere WSP T/O RootShield Rubigan EC	fosetyI-AI mancozeb mefenoxam quintozene quintozene <i>Trichoderma harzianum</i>	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc.	0	12 24 48 12 12 0	^	X	X	X	X	X	x	x		X	X	×	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when tem remains cold. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F. Will control <i>Phytophthora</i> only at 1.5 lb./cu. yd. Will control <i>Theilaviopsis</i> only with the addition of sulfur t media. Wait 24 hours before planting seed, cutting, or other unrooted plant material. Plants with establist
Prodigy 80 DG otect T/O 80WSP Quell Revere 10G Revere WSP T/O RootShield Rubigan EC SoilGard 12G	fosetyI-AI mancozeb mefenoxam quintozene quintozene <i>Trichoderma harzianum</i> fenarimol	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc. SePRO	0	12 24 48 12 12 0	X	X X X X	X X X	X X X	X	X X X X X	x	X		X	X	x	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when tem remains cold. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F. Will control <i>Phytophthora</i> only at 1.5 lb./cu. yd. Will control <i>Theilaviopsis</i> only with the addition of sulfur t media. Wait 24 hours before planting seed, cutting, or other unrooted plant material. Plants with establist can be directly transplanted into treated media.
rodigy 80 DG tect T/O 80WSP Quell Revere 10G evere WSP T/O RootShield Rubigan EC SoilGard 12G pectro 90 WDG Strike 25WDG Subdue 2E, II,	fosetyI-AI mancozeb mefenoxam quintozene quintozene <i>Trichoderma harzianum</i> fenarimol <i>Gliocladium virens</i>	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc. SePRO Olympic	0	12 24 48 12 12 0 12 0	X	X X X X	X X X	-	X X X X	X	X	X X		x	X X X X	x x x	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when tem remains cold. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F. Will control <i>Phytophthora</i> only at 1.5 lb./cu. yd. Will control <i>Theilaviopsis</i> only with the addition of sulfur to media. Wait 24 hours before planting seed, cutting, or other unrooted plant material. Plants with establish can be directly transplanted into treated media. Do not use on green or variegated pittosporum or schefflera more than one time. Not recommended for Sw Boston fern, or Easter cactus.
rodigy 80 DG tect T/O 80WSP Quell Revere 10G evere WSP T/O RootShield Rubigan EC SoilGard 12G pectro 90 WDG Strike 25WDG Subdue 2E, II, Granular 2% ubdue 2X WSP,	fosetyI-AI mancozeb mefenoxam quintozene quintozene <i>Trichoderma harzianum</i> fenarimol <i>Gliocladium virens</i> chlorothalonil triadimefon	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc. SePRO Olympic W. A. Cleary Olympic	0	12 24 48 12 12 0 12 0 12 12 12 12	X	X X X X X	X X X	-	X X X X	X	X	× ×	X X	X	X X X X	X	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when tem remains cold. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F. Will control <i>Phytophthora</i> only at 1.5 lb./cu. yd. Will control <i>Theilaviopsis</i> only with the addition of sulfur to media. Wait 24 hours before planting seed, cutting, or other unrooted plant material. Plants with establish can be directly transplanted into treated media. Do not use on green or variegated pittosporum or schefflera more than one time. Not recommended for Sw Boston fern, or Easter cactus.
rodigy 80 DG tect T/O 80WSP Quell Revere 10G evere WSP T/O RootShield Rubigan EC SoilGard 12G pectro 90 WDG Strike 25WDG Subdue 2E, II, Granular 2% ubdue 2X WSP, GR, MAXX SysTec 1998,	fosetyI-AI mancozeb mefenoxam quintozene quintozene <i>Trichoderma harzianum</i> fenarimol <i>Gliocladium virens</i> chlorothalonil triadimefon metalaxyl	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc. SePRO Olympic W. A. Cleary Olympic Syngenta	0	12 24 48 12 12 0 12 0 12 12 12 12	X	X X X X X	X X X	-	X X X X	X	X	X X	X X	X	X X X X	X	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. apply to English ivy more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when tem remains cold. <i>Trichoderma harzianum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F. Will control <i>Phytophthora</i> only at 1.5 lb./cu. yd. Will control <i>Theilaviopsis</i> only with the addition of sulfur to media. Wait 24 hours before planting seed, cutting, or other unrooted plant material. Plants with establish can be directly transplanted into treated media. Do not use on green or variegated pittosporum or schefflera more than one time. Not recommended for Sw Boston fern, or Easter cactus.
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Prodigy 80 DG otect T/O 80WSP Quell Revere 10G Revere WSP T/O RootShield Rubigan EC SoilGard 12G Spectro 90 WDG Strike 25WDG Subdue 2E, II, Granular 2% Subdue 2X WSP, GR, MAXX SysTec 1998, 1998 WDG Systhane WSP rraclor 75WP, 400 Terraguard 50W Terranil 6L rrazole 5G, 35 WP Thalonil Excel Touche EG Triact 70 Triathlon	fosetyI-AI mancozeb mefenoxam quintozene quintozene <i>Trichoderma harzianum</i> <i>fenarimol</i> <i>Gliocladium virens</i> chlorothalonil triadimefon metalaxyI mefenoxam thiophanate-methyl myclobutanil quintozene triflumizole chlorothalonil etridiazole chlorothalonil vinclozolin neem oil quaternary ammonium chlorides	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc. SePRO Olympic W. A. Cleary Olympic Syngenta Syngenta Syngenta Syngenta Regal Rohm & Haas Uniroyal Uniroyal Terra Uniroyal Terra Lesco Olympic Olympic	0	12         24         48         12         12         0         12         12         0         12         13          14          12	X X X X X X X X X X			X X X X	X X X X X X	X X X X	X		X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X	X X X X X X X X X	x x x x x x x x	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilles and only make one application at the time of transplanting. D every to English ity more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when temp remains cold. <i>Trichoderma harizanum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F. Will control <i>Phytophthora</i> only at 1.5 lb./cu. yd. Will control <i>Theilaviopsis</i> only with the addition of sulfur to media. Wail 24 hours before planting seed, cutting, or other unrooted plant material. Plants with establish can be directly transplanted into treated media. Do not use on green or variegated pittosporum or schefflera more than one time. Not recommended for Sw Boston fern, or Easter cactus. See label for special instructions for azalea, pothos and Easter Iily. Do not apply to English ivy more than o every 6 months, or injury may occur. Check label for precautions concerning specific crops.
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Prodigy 80 DG otect T/O 80WSP Quell Revere 10G levere WSP T/O RootShield Rubigan EC SoilGard 12G pectro 90 WDG Strike 25WDG Subdue 2E, II, Granular 2% ubdue 2X WSP, GR, MAXX SysTec 1998, 1998 WDG Systhane WSP raclor 75WP, 400 ferraguard 50W Terranil 6L razole 5G, 35 WP Thalonil Excel Touche EG Triact 70 Triathlon ruban 5G, 25EC, 30WP Turfcide 10G Ultra-fine oil Vorlan EG	fosetyI-AI mancozeb mefenoxam quintozene quintozene Trichoderma harzianum fenarimol Gliocladium virens chlorothalonil triadimefon metalaxyl chlorothalonil thiophanate-methyl mefenoxam thiophanate-methyl myclobutanil quintozene triflumizole chlorothalonil etridiazole chlorothalonil vinclozolin neem oil quaternary ammonium chlorides etridiazole quintozene jaraffinic oil	Uniroyal Lesco W. A. Cleary Uniroyal Lesco Lesco Bioworks, Inc. SePRO Olympic W. A. Cleary Olympic Syngenta Syngenta Syngenta Syngenta Regal Rohm & Haas Uniroyal Uniroyal Terra Uniroyal Terra Lesco Olympic Olympic Scotts Uniroyal Whitmire Micro-Gen	0	12 24 48 12 12 0 12 0 12 12 12 12 12 12 12 48 12 12 48 12 48 12 12 48 12 12 48 12 12 12 12 12 12 12 12 12 12	X X X X X X X X X X			X X X X	X X X X X X X X X X X		X		X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X	x x x x x x x x	Do not apply more than 0.38 fl. oz./100 gals. to pothos and do not make more than 3 applications. Do not a more than 0.5 fl. oz./100 gals. to Easter lilies and only make one application at the time of transplanting. D every to English ity more than once every 6 months. Do not apply to philodendron or pilea since injury may occur. Also labeled for <i>Myrothecium</i> . Granules become active above 50 degrees F and are not effective when temp remains cold. <i>Trichoderma harizanum</i> strain T-22 will colonize roots in all types of growing media, at pH 5 temperatures from 50 to 94 degrees F. Will control <i>Phytophthora</i> only at 1.5 lb./cu. yd. Will control <i>Theilaviopsis</i> only with the addition of sulfur to media. Wail 24 hours before planting seed, cutting, or other unrooted plant material. Plants with establish can be directly transplanted into treated media. Do not use on green or variegated pittosporum or schefflera more than one time. Not recommended for Swe Boston fern, or Easter cactus. See label for special instructions for azalea, pothos and Easter lily. Do not apply to English ivy more than or every 6 months, or injury may occur. Check label for precautions concerning specific crops.

for any type of an energency involuing a mandacy contact the following emandacy for marked in a sof August 2000       Current as of August 2000         Current as of August 2000       Hurman Pestificide Poisoning         MICHIGAN POISON CONTROL SYSTEM         From anywhere in Michigan, call         1 - 8       0       - 7       6       1         2 - 7       6       1       1       1         2 - 7       6       1       1       1         2 - 7       6       1       1       1         2 - 7       6       1       1       1         2 - 7       6       1       1       1       1         2 - 7       6       1 <th>on centers for assistance.</th> <th></th> <th>STEM</th> <th>5</th> <th>Pesticide Disposal Information</th> <th>Michigan Department of Environmental Quality. Waste Management Division. Monday – Friday: 8 a.m.–5 p.m. (517) 373-2730</th> <th></th> <th>National Pesticide Telecommunications Network Provides advice on recognizing and managing pesticide poisoning, toxicology, general pesticide information and emergency response assistance. Funded by EPA, based at Oregon State University</th> <th>7 days a week; excluding holidays 6:30 a.m. – 4:30 p.m. Pacific Time Zone <b>1-800-858-7378</b> FAX: 1-541-737-0761</th>	on centers for assistance.		STEM	5	Pesticide Disposal Information	Michigan Department of Environmental Quality. Waste Management Division. Monday – Friday: 8 a.m.–5 p.m. (517) 373-2730		National Pesticide Telecommunications Network Provides advice on recognizing and managing pesticide poisoning, toxicology, general pesticide information and emergency response assistance. Funded by EPA, based at Oregon State University	7 days a week; excluding holidays 6:30 a.m. – 4:30 p.m. Pacific Time Zone <b>1-800-858-7378</b> FAX: 1-541-737-0761
<ul> <li>v type of an emergency involving a pesticide, immediately contact <b>Current as of Aug</b></li> <li><b>Human Pesticid</b></li> <li><b>MICHIGAN POISON C</b></li> <li><b>From anywhere in Mid</b></li> <li><b>From anywhere in Mid</b></li> <li><b>B</b></li> <li><b>B</b></li> <li><b>C</b></li> <li><b>P</b></li> <li><b>B</b></li> <li><b>C</b></li> <li><b>P</b></li> <li< b=""></li<></ul>	ne following emergency informatic LIST 2000	e Poisoning	ONTROL SY chigan, call <b>I S O N 1</b> 4 - 7 6 6 1	Emergencie	Environmental Pollution	Pollution Emergency Alerting System (PEAS), Michigan Department of Environmental Quality:	District MDEQ Office Phone No.	For environmental emergencies: <b>*1-800-292-4706</b> also <b>*1-800-405-0101</b> Michigan Department of Agriculture Spill Response	
N I C H I G A N N I C H I G A N J - 8 Pesticide Fire Prone Number * Telephone Number	a pesticide, immediately contact t Current as of Aug		_		Traffic Accident	Local police department or sheriff's department:	Phone No.	Operations Division, Michigan State Police: <b>*(517) 336-6605</b> <b>Operated 24 Hours</b>	
	y type of an emergency involving	Hum	м сн - с - С	Speci	Pesticide Fire	Local fire department:	Phone No.	Fire Marshal Division, Michigan State Police: M - F: 8 - 12, 1 - 5 (517) 322-1924 * Telephone Number	

## **Chemical Disease Controls for the Greenhouse Industry**

## Extension Bulletin E-2750, Major Revision, February 2001 (destroy previous editions)

By Mary K. Hausbeck and Nicole A. Werner Department of Botany and Plant Pathology Michigan State University

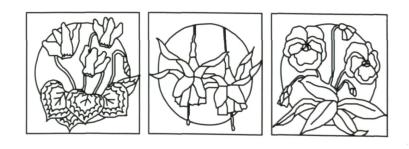
The Michigan Department of Agriculture (MDA) Always check the label for updated information. requires that chemicals used in the greenhouse Labels change often. Some chemicals listed in must have Worker Protection Standards and list this bulletin may be dropped by the manufactur-"greenhouse" or "glasshouse" in a location on er or distributor after publication of this bulletin. the label other than the "Agricultural Use If you have questions about the legality and/or Requirements" box. the registration status of pesticides, contact your county Extension office, pesticide dealer The MDA has also ruled that if the site, host or manufacturer.

plant and chemical are listed on the label, insects not on the label may be treated. Any Do not apply chemicals to plants that are other use inconsistent with the label can lead to stressed (by water, high temperatures or high injury of crops, humans, animals and the envihumidity) because this increases the possibility ronment and can lead to fines and/or condemof phytotoxicity. Always treat a small portion of nation of the crop. plants of each variety with any new chemical (or combination of chemicals) and check them Vegetables include any plants being used as for damage 7 days later — before treating the food or that will be transplanted as food crops whole crop. Chemicals that may not cause later. phytotoxicity when applied by themselves may cause damage when mixed together.

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