

# WELCOME TO [ our greenhouse ]

## BOTANIGARD® PRODUCT COMPATIBILITY

All products tested for compatibility and reported in this document have been evaluated for impact on *Beauveria bassiana* strain GHA spores and physical compatibility only. Tests were not carried out to evaluate impact on the partner product integrity or for plant phytotoxicity. Compatibility has been tested at normal tank mix dilutions, not in concentrated stock tank dilutions (such as for injecting at 1:100). Physical compatibility can be impacted by your water quality, tank residues, or the addition of other materials in the spray tank. All chemistries available have not been tested. As a rule of thumb, for unlisted products, wait 4-5 days before or after a fungicide application to apply

BotaniGard. Most insecticides will not harm BotaniGard. Ask your distributor for information regarding specific products.

\*Compatibility with spores applies to BotaniGard® ES, BotaniGard® 22WP, Mycotrol® ESO and Mycotrol® WPO.

- ✓ Read and follow label directions for all tank mix materials.
- ✓ Always maintain constant agitation in your spray tank.
- ✓ Make applications of tank mix solutions as soon as possible after mixing.

## ADJUVANTS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Alcohol Ethoxylate and Alkyl Phenol Ethoxylate	Activate Plus™	4 pts/100 gal	Yes
Alkylphenol ethoxylate, alcohol ethoxylate, tall oil fatty Acids	Activator® 90	4 pts/100 gal	Yes
Paraffinic oil, Polyol fatty acid esters, and Polyethoxylated derivatives	Agridex®	2 gal/100 gal (2.0% v/v)	Yes, poor emulsion with ES
Ammonia	Various	1 pt/100 gal	Yes-ES; No-22WP
Alkylphenol ethoxylate and tall oil fatty acids	Amway APSA-80	1 pt/100 gal	Yes

## ADJUVANTS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Ethoxylated Alkyl PheNols and fatty acid esters	Aquagro® 2000L	1 pt/100 gal	Yes
Polyether Polymethylsiloxane Co-polymer	Aquatrol Capsil®	16 fl oz/100 gal	Yes
Anionic and Nonionic wetting agents	Big Wet®	1 pint/100 gal	Yes
Alkyl aryl polyethoxy ethaNol phosphate esters	Blendex® VHC	3 pints/100 gal	No
Synthetic Latex and alcohol ethoxylate	Bond®	1 qt/100 gal	No, too sticky
Fish Oil	Crocker's Fish Oil	2 qt/100 gal	No
Silicone-polyether copolymer, alcohol ethoxylates, propylene glycol, and dimethylpolysiloxan	Freeway®	1 pt/100 gal	Yes
CaNola oil fatty acids and Nonionic surfactant	Hasten®	1 qt/100 gal	Yes
Petroleum Hydrocarbons, alkylpheNol ethoxylate, and tall oil fatty acid	Herbimax®	4 pts/100 gal	Yes
Alkyl Aryl Ethoxylates	Indicate-5®	24 fl oz/100 gal	Yes
Polyethylene glycol, choline, and guar gum	Intac®	4 pts/100 gal	No
Polyalkeleneoxide modified orgaNosilicones, aryl poloxyalkane ether, and aliphatic ester	Joint Venture®	2 pts/100 gal	Yes

## ADJUVANTS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Polyalkyleneoxide modified Polydime- thylsiloxane and Non-ionic Surfactants	Kinetic®	64 fl oz/100 gal	Yes
Anionic and Nonionic wetting agents	Big Wet®	1 pint/100 gal	Yes
Alkyl aryl polyethoxy ethaNoI phosphate esters	Blendex® VHC	3 pints/100 gal	No
Synthetic Latex and alcohol ethox-ylate	Bond®	1 qt/100 gal	No, too sticky
Fish Oil	Crocker's Fish Oil	2 qt/100 gal	No
Silicone-polyether copolymer, al-cohol ethoxylates, propyl-ene gly-col, and dimethylpo-lysiloxan	Freeway®	1 pt/100 gal	Yes
CaNola oil fatty acids and Nonionic surfactant	Hasten®	1 qt/100 gal	Yes
Petroleum Hydrocarbons, al-kyIpheNoI ethoxylate, and tall oil fatty acid	Herbimax®	4 pts/100 gal	Yes
Alkyl Aryl Ethoxylates	Indicate-5®	24 fl oz/100 gal	Yes
Polyethylene glycol, choline, and guar gum	Intac®	4 pts/100 gal	No
Polyalkeleneoxide modified orga-Nosilicones, aryl poloxy-alkane ether, and aliphatic ester	Joint Venture®	2 pts/100 gal	Yes
Polyalkyleneoxide modified Poly-dime- thylsiloxane and Non-ionic Surfactants	Kinetic®	64 fl oz/100 gal	Yes

## ADJUVANTS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Alylaryl polyoxethylene glycol phosphate ester surfactants	Latron Ag 44 M®	4 pts/100 gal	No
Modified phthalic glycerol alkyd resin	Latron B-1956®	1 qt/100 gal	Yes
Paraffinic Base petroleum oil, tall oil fatty acids, and alkyl-pheNol ethoxylate	Maximizer®	2 qt/100 gal	Yes
Alkyl pheNol ethoxylate, propylene glycol, and tall oil fatty acids	No Foam® A	1 gal/100 gal	Yes
Alcohol alkoxyate, benzene-sul-fonic acid, and isopropyl alcohol	No Foam® B	3 gal/100 gal	No
Pinene polymers, petrolatum, and tallow alkyl amines ethoxylated	NuFilm® 17	3 pint/100 gal	Yes
Pinene polymers, petrolatum, and alkyl amines ethoxylated	NuFilm® P	1 pint/100 gal	Yes
Alkyl amine ethoxylate and poly-ethylene glycol	Penetron®	1 gal/100 gal	No
Paraffin oil, polyol fatty acids esters and polyethoxylated esters	Penetrator® 3	2 qt/100 gal	Yes
(2R)-3-(2-hydroxy-3-methoxyphenyl)- 2-[2-methoxy-4-(3-sulfopropyl) phe-Noxy] propane-1- sulfonic acid	Polyfon H®	-	Yes
A-(P-Nonylphenyl)-2 hydroxypoly (oxyethylene) and poly (methylene p- Nonyl-phe-Noxy) polyoxy-propylene propaNoI	R-56	2 qt/100 gal	Yes

## ADJUVANTS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
OrgaNosilicone surfactant and alcohol ethoxylates	Sil-fact®	5 fl oz/100 gal	Yes
AlkylpheNol ethoxylate, poly-ether-modified polysiloxan, and propyl-ene glycol	Silkin®	5 fl oz/100 gal	Yes
Polyether polydimethyl silox-ane copolymers	Siltrate Advanced	6 fl oz/100 gal	Yes
Siloxane polyalkyleneoxide co-polmer and polyalkyleneoxide	Silwet® 408	5 fl oz/100 gal	Yes
OrgaNo Modified Polydimethyl Silox-ane	Silwet® 560	5 fl oz/100 gal	Yes
Polyalkyleneoxide modified heptame-thyl trisiloxane	Silwet® 806	5 fl oz/100 gal	Yes
Polyalkyleneoxide modified heptame-thyltrisiloxane	Silwet® L-77	5 fl oz/100 gal	Yes
Polyvinyl Polymer	Staput® Plus	3 qt/100 gal	Yes
Sodium Dodecylbenzene Sulfonate	Stepwet® DF-90	20 oz/100 gal	Yes
Sodium Lauryl Sulfate	Stepwet® DF-95	20 oz/100 gal	Yes
Alcohols, C10-16 ethoxylated, poly-ethylene glycol	Surf-Ac® 820	1 qt/100 gal	Yes
Polyethylene glycol Nonyl-phenyl ether, alcohols, C10-16, and ethox-ylated	Surf-Ac® 910	1 qt/100 gal	Yes

## ADJUVANTS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
3-(3-Hydroxypropyl) Hep-tamethyltri-si-loxane, Ethoxyl-ated Acetate Pol-ysiloxane	Sylgard® 309	1 qt/100 gal	Yes
Synthetic latex, 1,2-propanedi-ol, Al-cohol ethoxylate, silicone polyether copolymer	Tactic	16 fl oz/100 gal	Yes
Saponin extract - Yucca	Therm X™ 70	2 fl oz/100 gal	Yes
Polyoxyethylene (20) sorbitan moNooleate	Tween® 80	1 pint/100 gal	Yes
Alcohol Ethoxylate	Wetcit	0.8% v/v	Yes
AlkylpheNol ethoxylate, alco-hol eth-oxylate, tall oil fatty acid, 2,2' Dihy-droxydiethyl ether, and dime-thylpolsilox-ane	X-77®	8 fl oz/100 gal	Yes

## BIOCIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Hydrogen dioxide 27%	ZeroTol®	1 gal/100 gal	No (Apply 4 days after)
Hydrogen peroxide/Hydrogen diox-ide	PERpose Plus®	3 gal/100 gal	No

## FERTILIZERS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
3-0-0 chemical and organic + microbes	AmiNo Elite™, Growgreen	2 fl oz/gal	Yes
-	Biozyme®	25 gal/100 gal	Yes
-	Effective Mi-crobes®	1 pint/100 gal	Yes
1.5-0-0 chemical and organic + microbes	Microbe Plus™ Calcium, Grow-green	2 fl oz/gal	Yes
8.1-0-0 chemical and organic + microbes	Microbe Plus™ High NS, Grow-green	2 fl oz/gal	Yes
5-1-3 chemical and organic + microbes	Microbe Plus™ NPK, Grow-green	2 fl oz/gal	Yes
10-4-3 oilseed extract + chemical fertilizer	Nature's Source	1:4, 1:7, 1:12	Yes
Calcium phosphorus	Nutra-Phos 24®	12 lb/100 gal	Yes
10-3-3 Fertilizer and stabilizer, proprietary	NutriFOG®	1:4, 1:7, 1:12	Yes
Phosphorous acid	Nutri-Phite®	6 qt/100 gal	Yes
5-0-0	ON-Gard®	3% v/v (3 gal/100 gal)	ES - Yes; 22WP - No
0-5-0 chemical and organic + microbes	Phoscal, Growgreen	2 fl oz/gal	Yes

## FERTILIZERS

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
0-0-25	Potassium car-bonate	2.5 lb/100 gal	Yes
13-3-4	Trisert® Foliar Fertilizer	Up to 10%	Yes
46-0-0	Urea	1 gal/100 gal	Yes
35.5% Zn	ZnSO <sub>4</sub>	0.10%	Yes

## FUNGICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Azoxystrobin and ben-zovin-diflupyr	Mural®	7 oz/100 gal	No (Apply 4 days apart)
Azoxystrobin	Heritage®	4 oz/100 gal	No (Apply 4 days apart)
Azoxystrobin	Quadris®	15.5 fl oz/100 gal	No (Apply 4 days apart)
<i>Bacillus licheniformis</i> SB3086, indole-3-butyric acid	EcoGuard	64 fl oz/100 gal	No (Apply 4 days apart)
<i>Bacillus subtilis</i> strain QST 713	Cease®	8 qt/100 gal	No (Apply 1 day apart)
<i>Bacillus amyloliquefaciens</i> strain D747	Double Nickel	6 qt/100 gal	No



## FUNGICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Bacillus pumilus strain QST 2808	Sonata®	4 qt/100 gal	Yes
Boscalid and Pyraclostrobin	Pageant Intrinsic® & Pristine®	18 oz/100 gal	Yes
Captan	Captan® 4000	20 oz/100 gal	No (Apply 4 days apart)
Chlorothalonil	Bravo 720®	1 pt/100 gal	No (Apply 4 days apart)
Chlorothalonil	Daconil®	2 qt/100 gal	No (Apply 4 days apart)
Citric and Acetic Acid	Cyclone	2.5%	No
Copper ammonium carbonate	Copper Count-N®	3 qt/100 gal	No (Apply 2 days apart)
Copper Hydroxide	Kocide® 3000	16 lb/100 gal	Yes
Copper oxychloride, copper hydroxide	Badge®X2 & Badge®SC	2.5 lbs/100 gal	Yes
Copper linoleate	Tenn-Cop 5E®	5 qt/100 gal	Yes
Copper sulphate pentahydrate	Phyton 27®	25 fl oz/100 gal	Yes
Dimethomorph	Acrobat®	20 oz/100 gal	Yes

## FUNGICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Extract of ReyNoutria sachalinensis	Regalia®	1 qt/100 gal	Yes
Extract of ReyNoutria sachalinensis	Regalia®	4 qt/100 gal	No (Apply 7 days apart at rates > 1 qt/100 gal)
Extract of Swinglea glutinosa	EcoSwing®	2 pts/100 gal	Yes
Fenamidone	Fenstop®	28 fl oz/100 gal	Yes
Fenarimol	Rubigan®	12 fl oz/100 gal	Yes
Fenpyroximate	Portal® XLO	32 fl oz/100 gal	Yes
Fludioxonil	Medallion®	16 oz/100 gal	No (Apply 4 days apart)
Fluopyram and pyimethanil	Luna Tanquil-ity®	27 fl oz/100 gal	Yes
Fosetyl-Al	Aliette WDC®	5 lb/100 gal	Yes
Iprodione	Rovral®	2 lb/100 gal	No (Apply 2 days apart)
Iprodione	Chipco 26019®	2 lb/100 gal	No (Apply 2 days apart)
Isofetamid	Astun	17 fl oz/100 gal	Yes

## FUNGICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Mancozeb	Dithane F-45®	8 qt/100 gal	No (Apply 4 days apart)
Maneb	Maneb 80®	5 lb/100 gal	No (Apply 4 days apart)
Mandipropamid	Revus	16 fl oz/50 gal	Yes
MefeNoxam and fludioxonil	Hurricane®	1.5 oz/100 gal	No (Apply 4 days apart)
MefeNoxam + Chlorothalonil	Ridomil® Gold Bravo	9 lb/100 gal	No (Apply 4 days apart)
Metalaxyl & Chlorothalonil	Subdue® & Daconil®	2 gal/100 gal	No (Apply 3 days apart)
MoNo- and di-potassium salts of phosphorous acid	Alude®	12.75 fl oz /100 gal	No (Apply 4 days apart)
MoNo-potassium salts of phosphorous acid	Rampart	3 qt/50 gal	Yes
Myclobutanil	Eagle®	16 oz/100 gal	No (Apply 2 days apart)
Myclobutanil	Rally 40W®	1 pt/100 gal	No (Apply 2 days apart)
Oxathiapiprolin	Segovis®	3.2 fl oz/100 gal	Yes
Oxathiapiprolin + Mandipropamid	Orondis Ultra	7 fl oz/50 gal	Yes

## FUNGICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Piperalin	Pipron®	8 fl oz/100 gal	No (Apply 2 days apart)
Polyoxin D zinc salt	Endorse® & Affirm® WDG	2.2 lb/100 gal	No (Apply 4 days apart)
Potassium bicarbonate	MilStop® SP	5.0 lb/100 gal	No (Apply 4 days apart)
Propamocarb	BaNol® & Previcur® Flex	4 lb/100 gal	No (Apply 4 days apart)
Propiconazole	Banner Maxx®	16 fl oz/100 gal	No (Apply 2 days apart)
Myclobutanil	Eagle®	16 oz/100 gal	No (Apply 2 days apart)
Myclobutanil	Rally 40W®	1 pt/100 gal	No (Apply 2 days apart)
Oxathiapiprolin	Segovis®	3.2 fl oz/100 gal	Yes
Oxathiapiprolin + Mandipro-pamid	Orondis Ultra	7 fl oz/50 gal	Yes
Piperalin	Pipron®	8 fl oz/100 gal	No (Apply 2 days apart)
Polyoxin D zinc salt	Endorse® & Affirm® WDG	2.2 lb/100 gal	No (Apply 4 days apart)
Potassium bicarbonate	MilStop® SP	5.0 lb/100 gal	No (Apply 4 days apart)

## FUNGICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Propamocarb	BaNol® & Previcur® Flex	4 lb/100 gal	No (Apply 4 days apart)
Propiconazole	Banner Maxx®	16 fl oz/100 gal	No (Apply 2 days apart)
Pyraclostrobin	Insignia®	16 fl oz /100 gal	No (Apply 4 days apart)
Pyrimethanil	Scala SC®	7 fl oz/100 gal	Yes
Streptomyces lydicus WYEC 108	ActiNovate SP®	24 oz/100 gal	Yes
Sulfur 80%	Microthiol®	2 oz/100 gal	No (Apply 2 days apart)
Sulfur	Various	-	No (Apply 3 days apart)
Tebuconazole	Folicur®	7.7 fl oz /100 gal	No (Apply 4 days apart)
Thiophanate-methyl + Zinc + Manganese + ethylene bis-dithiocarbamate/Mancozeb	Zyban®	24 oz/100 gal	No (Apply 4 days apart)
Thiophanate-methyl	Cleary's 3336 WP®	6 lb/100 gal	Yes
Thiram	Spotrete®	2 lb/100 gal	No (Apply 4 days apart)
Triadimefon	Bayleton®	20 oz/100 gal	No (Apply 2 days apart)

## FUNGICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
<i>Trichoderma harzianum</i> Rifai strain T-22	RootShield® HC (Canada)	10 g/L	Yes
<i>Trichoderma harzianum</i> Rifai strain T-22	RootShield® WP (drench)	5 oz/100 gal	Yes
<i>Trichoderma harzianum</i> Rifai strain T-22, <i>Trichoderma virens</i> strain G-41	RootShield® PLUS+ WP (drench)	8 oz/100 gal	Yes
Triflumizole	Terraguard 50W®	24 oz/100 gal	No (Apply 4 days apart)
Triforine	Funginex®	50 fl oz/100 gal	No (Apply 2 days apart)
<i>Ulocladium oudemansii</i> strain U3	BotryStop®	3 lbs/100 gal	Yes
Vinclozolin	Ronilan 50DF®	6.7 lb/100 gal	No (Apply 2 days apart)
Fluxapyroxad and Pyraclostrobin	Priaxor®	7.14 fl oz/100 gal	No (apply 4 days apart)

## HERBICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Glyphosate	Roundup®	5 pts/50 gal	Yes
-	-	-	-

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Abamectin	Avid®	24 fl oz/100 gal	Yes, some clabber!
Abamectin	Avid®	240 ml/400 L	Yes, mix and spray immediately
Acephate	Orthene®	630 ml/400 L	Yes
Acephate	Orthene® 75S	2.5 lb/100 gal	Yes
Acephate	Acephate	1 qt/100 gal	Yes
Amitraz	Ovasyn®	64 fl oz/100 gal	Yes
Azadirachtin	Azatin® XL	70 oz/100 gal	Yes
Azadirachtin	Molt-X®	20 fl oz/100 gal	Yes
Azadirachtin	Neemix 4.5®	2 qt/100 gal	Yes
Azadirachtin	Neemix 4.5®	1 gal/100 gal	No (Apply 4 days apart)
Azadirachtin	Triact® & Trilogy®	2% by volume	Yes
Azinphos-methyl	Guthion® 2L	32 oz/100 gal	Yes

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
<i>Bacillus thuringiensis, subsp. israelensis</i> , strain AM 65-52	Gnatrol® WDG	26 oz/100 gal	No (Apply 4 days apart)
Bifenthrin	Talstar®	40 fl oz/100 gal	Yes
Buprofezin	Talus®	18 fl oz/100 gal	Yes
Buprofezin	Applaud® 70% WP	20 oz/100 gal	Yes
<i>Burkholderia spp.</i> strain A396	Venerate	4 qt/100 gal	Yes
Capsicum oleoresin extract, garlic oil, caNola oil	Captiva Prime®	1 qt/100 gal	Yes
Capsicum oleoresin	Hot Pepper Wax	3% by volume	Yes
Carbaryl	Sevin® 80S	48 oz/100 gal	Yes
Chlorpyrifos	Dursban® 50W	32 oz/100 gal	Yes
Chlorpyrifos	Lorsban EC®	52 fl oz/100 gal	Yes, some clabber <sup>1</sup>
<i>Chromobacterium subtsugae</i>	Grandevo®	1 lb/100 gal	Yes
Cyantraniliprole	Mainspring	16 fl oz/100 gal	Yes



## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Cyfluthrin	Baythroid® & Tempo®	20 lb/100 gal	Yes
Cyfluthrin	Decathlon®	1.9 oz/100 gal	Yes
Cypermethrin	Cymbush®	14 oz/100 gal	Yes
Cyromazine	Citation®	2 gal/100 gal	Yes
DiaziNon	DiaziNon® 4E	24 oz/100 gal	Yes
Dicofol	Kelthane EC®	1 gal /100 gal	Yes
Diflubenzuron	Adept®	8 oz/100 gal	Yes
Diflubenzuron	Dimilin® 25W, 2F	26 oz/100 gal	Yes
Dimethoate	Cygon®	24 fl oz/100 gal	Yes-ES; No -22WP
DiNotefuran	Safari®	8 oz/100 gal	Yes
Endosulfan	Thiodan® 3EC	22 fl oz/100 gal	Yes
Endosulfan	Thiodan® 3EC	1.9 L/400 L	No (Apply 4 days apart)

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Esfenvalerate	Asana® XL	30 fl oz/100 gal	Yes, some clabber1
Etoxazole	Zeal SC	4 oz/100 gal	Yes
Fenbutatin oxide	Vendex®	16 oz/100 gal	Yes
FeNoxycarb	Precision®	4 oz/100 gal	Yes
Fenpropathrin, pyrethroid	Tame®	24 fl oz/100 gal	Yes
Fenpropathrin, pyrethroid	Danitol® 2.4ES	38 oz/100 gal	Yes - WP 5% viability loss
Fenpyroximate	Akari	32 fl oz/100 gal	Yes
Flonicamid	Beleaf	4.8 oz/100 gal	Yes
Flupyradifurone	Altus	14 oz/100 gal	Yes
Garlic extract	Empower®	25 gal/100 gal	Yes
Garlic extract	Garlic Barrier	11 gal/100 gal	Yes
Hexythiazox	Savey®	10 oz/100 gal	Yes, mix and spray immediately

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Hexythiazox	Hexygon®	6 oz/100 gal	Yes
Imidacloprid	Provado® 1.6F	6 gal/100 gal	Yes
Imidacloprid	Marathon® & Merit®	100 ml/100 gal	Yes
<i>Isaria fumosorosae</i> Apopka Strain 97	Preferal®	28 oz/100 gal	Yes
Lambda-cyhalothrin	Karate® & Scimitar®	20 fl oz/100 gal	Yes
Malathion	FyfaNon® ULV	79 fl oz/100 gal	Yes, some clabber1
Methamidophos	Monitor 4®	32 fl oz/100 gal	Yes
Methiocarb	Mesuro1®	50 lb/100 gal	Yes
Methomyl	Lannate®	24 fl oz/100 gal	Yes
Mineral oil	Orchex® 692 & 796	2 gal/100 gal	Yes, phyto concerns
Mineral oil	SuffOil-X®	2 gal/100 gal	Yes-WP, with agitation ES - Phyto concern
Mineral Oil	JMS Stylet-Oil®	1 qt/100 gal	Yes, some clabber1

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Naled (62%)	Dibrom® 8E	1 pt/100 gal	No (Apply 2 days apart)
Oxamyl	Vydate®	2 qts/100 gal	Yes
Oxydemeton-methyl	Metasystox R-2®	3 qts/100 gal	No (Apply 4 days apart)
Permethrin, pyrethroid	Ambush®	42 fl oz/100 gal	Yes
Petroleum Oil	Sun Oil 6E & 11N	2 gal/100 gal	Yes, phyto concerns
Piperonyl butoxide	PBO	16 fl oz/100 gal	Yes
Piperonyl butoxide, pyrethrins	PyreNone®	5 gal/100 gal	Yes
Piperonyl butoxide	Butacide®	12 gal/100 gal	Yes
Piperonyl butoxide	Incite®	26 fl oz/100 gal	Yes
Potassium salts of fatty acids	M-Pede®, Safer & Kopa	2 gal/100 gal	Yes, mix BotaniGard 1st
Propargite	Omite®	44 lb/100 gal	Yes
Pymetrozine	Endeavor®	1.5 lb/100 gal	Yes

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Pyrethrins	Pyganic EC 1.4	64 fl oz/100 gal	Yes
Pyrethrins	Pyganic EC 5.0, Tersus®	17 fl oz/100 gal	Yes
Pyrethrins, Piperonyl butoxide	Pyronyl® Crop Spray	24 fl oz/100 gal	Yes
Pyrethrins, Piperonyl butoxide	EverGreen® Crop Protec-tion 60-6	53 fl oz/100 gal	Yes, mix BotaniGard 1st
Pyridaben	Sanmite®	25 lb/100 gal	Yes
Pyridalyl	Overture 35 WP	8 oz/100 gal	Yes
Pyriproxyfen	Distance®	12 fl oz/100 gal	No (Apply 3 days apart)
Refined petroleum distillate	SunSpray® Oil	2 gal/100 gal	Yes
Rosemary oil	TetraCURB®	8 qt/100 gal	Yes
S-KiNoprene	Enstar® AQ	32 fl oz/100 gal	No (Apply 1 day apart)
S-KiNoprene	Enstar® II	20 fl oz/100 gal	Yes
Soap	Palmolive® soap	2.9 L/400 L	Yes

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
S-KiNoprene	Enstar® II	20 fl oz/100 gal	Yes
Soap	Palmolive® soap	2.9 L/400 L	Yes
Soybean oil with surfactant	Natur'l Oil	10 fl oz/100 gal	Yes
Spinetoram	Delegate	5 fl oz/ 30 gal	Yes
SpiNosad	Success®	6 gal/100 gal	Yes
SpiNosad	Conserve®SC	32 fl oz/100 gal	Yes
SpiNosad	Entrust	10 fl oz/100 gal	Yes
Spiromesifen	Judo®	4 fl oz/100 gal	Yes, 2-hour tank life
Spirotetramat	Kontos®	2.4 fl oz/100 gal	Yes
Spirotetramat	Movento®	10 fl oz/100 gal	Yes
Sulfur 80%	Microthiol®	2 oz/100 gal	No (Apply 2 days apart)
Tau-fluvalinate	Mavrik®	10 fl oz/100 gal	Yes

## INSECTICIDES / MITICIDES

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Thiamethoxam	Flagship 25 WG	8.5 oz/100 gal	Yes
Zeta-cypermethrin, pyrethroid	Mustang® 1.5EC	8 L/400 L	Yes

## PLANT GROWTH REGULATORS (PGRS)

ACTIVE INGREDIENT(S)	BRAND NAME	MAXIMUM TESTED RATE	COMPATIBILITY
Ancymidol	A-Rest®	2 fl oz/100 gal	Yes
Chlorocholine chloride	Cycocel®	3 pts/100 gal	Yes
DamiNozide	B-Nine®	2 gal/100 gal	Yes
Gibberillic acid	Gib Gro®	24 fl oz/100 gal	Yes
Paclobutrazol	Bonzi®	2.6 oz/100 gal	Yes

1 Clabber is the development of a cottage cheese or sour milk consistency (thickening or curdling). Refer to product labels for complete application details and always follow label directions. Additional technical information is available on our website at [certisbio.com](http://certisbio.com) or from your Certis Biologicals representative.