

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.

- **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.

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.*

Adjuncts			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Alkylarlpolyoxyethylene glycols and isopropyl alcohol + sodium ethylene diamine tetra-acetate	1st Choice® 2220	4 fl oz/100 gal	Yes
Cottonseed oil and adjuvant	1st Choice® 4440	1 gal/100 gal	Yes
Cottonseed oil and adjuvant	1st Choice® 9300	2 gal/100 gal	Yes
Alkylarlpolyoxyethylene glycols and isopropyl alcohol	1st Choice® Spreader Sticker	1 gal/100 gal	Yes
Mineral oil	6E	1 gal/100 gal	Yes, phyto concern
Mineral oil	7N	1 gal/100 gal	Yes, phyto concern
Alkylarlpolyethylene glycols, free fatty acids & isopropyl alcohol	Activate® Plus	2 qt/100 gal	Yes
Akylphenol ethoxylate, alcohol ethoxylate, tall oil fatty Acids	Activator® 90	2 qt/100 gal	Yes
Petroleum Oil & polyol fatty acid esters	Agicide Activator®	6 qt/100 gal	Yes
Ethoxylated soybean derived surfactants	Agra Wet®	1 qt/100 gal	Yes
Petroleum oil & polyol fatty acid esters	Agridex®	8 qt/100 gal	Yes, poor emulsion with ES
Ammonia	Ammonia®	1 pint/100 gal	Yes-ES; NO -22WP
Nonionic Surfactant (Alkyl Aryl Alkoxyate) 20% Free Fatty Acids	Amway APSA-80 Spreader®	1 pint/100 gal	Yes
Ethoxylated Alkyl Phenols	Aquagro® 2000L	1 pint/100 gal	Yes
	Aquatrol®	16 fl oz/100 gal	Yes
	Armublend 650®	3 qt/100 gal	Yes
	Atlox 775®	3 qt/100 gal	Yes
Polyoxyethylene hexitan ester	Atplus 201®	2 qt/100 gal	NO
Polyoxyethylene alcohol and urea blend	Atplus 203, Atplus 435, Atplus 530, AtPlus S10	2 qt/100 gal	Yes



Adjuvants (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Polyoxyethylene alcohol and urea blend	Basic_H®	2 qt/100 gal	Yes
	Big Wet®	1 pint/100 gal	Yes
	Biocarrier®	10 gal/100 gal	Yes
	Bionex®	1 qt/100 gal	Yes
Akyl Polyethoxy Ethers & Ethoxylated Derivatives	Biosurf®	8 fl oz/100 gal	Yes
Alkyl aryl polyethoxy ethanol phosphate esters 64%	Blendex®	3 pints/100 gal	NO
Synthetic Latex (45%) & Primary Aliphatic Oxyalkylated Alcohol (10%)	Bond®	1 qt/100 gal	NO , too sticky
Polysiloxane	Breakthrough®	8 fl oz/100 gal	Yes
100% blend of polyether- polymethylsil-oxane copolymer and nonionic surfactant	Capsil 30®	16 fl oz/100 gal	Yes
Carboxymethylcellulose	Cell-U-Wet®	2.5 lb/100 gal	Yes
Carbohydrates	Coax®	1.5 gal/100 gal	Yes
Cotton seed oil and adjuvant	Co-Spread®	10 qt/100 gal	Yes-22WP; NO -ES
Fish Oil	Crocker's Fish Oil	2 qt/100 gal	NO
Light & Heavy Paraffinic Distillates	Crop Oil Concentrate	4 qt/100 gal	NO
Acidifiers, polyalcohols and glycols, solvents & adjuvants	DAP-plus	13 oz/100 gal	Yes
Coconut Oil derived surfactant	Ecover® Soap	1 gal/100 gal	Yes-22WP; NO -ES
	Flood®	3 gal/100 gal	Yes
Polysaccharide gum (45.1%) + inerts	Flozine®	4 oz/100 gal	NO
	Foamaster Soap L	3 qt/100 gal	Yes
Silicone-polyether copolymer & alcohol ethoxylates	Freeway®	1 pint/100 gal	Yes
Polydimethyl siloxane & nonionic surfactants	Galactic®	12 fl oz/100 gal	Yes
Esterified vegetable oil & nonionic surfactant	Hasten®	1 qt/100 gal	Yes
Petroleum distillate and adjuvant	Herbicide Activator	1 qt/100 gal	NO
Pet Hydrocarbons (83%) + Mono & Diesters of Omega Hydroxypoly oxyethylene	Herbimax®	2 qt/100 gal	Yes
(AL-O-Si) x	Hold-UP®	1 qt/100 gal	NO
Alkyl Aryl Ethoxylates	Indicate-5®	24 fl oz/100 gal	Yes
Polymers & Copolymers (10%)	Intac®	2 qt/100 gal	NO
	Ivory Soap®	2 qt/100 gal	NO
Polyalkyleneoxide modified organosilicones, etc.	Joint Venture®	1 qt/100 gal	Yes
Polyalkyleneoxide modified Polydimethylsiloxane & non-ionic Surfactants	Kinetic®	64 fl oz/100 gal	Yes
	K-tonic®	15 gal/100 gal	Yes
Octylphnoxy polyethoxyethylphosphate, Butyl Alcohol & silicon Antifoam	Latron Ag 44 M®	2 qt/100 gal	NO
Nonylphenoxypolyethoxy Ethanol, Butyl Alcohol & silicone Antifoam	Latron Ag-98®	2 qt/100 gal	Yes



Adjuvants (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Modified phthalic glycerol alkyd resin 77%	Latron B-1956®	1 qt/100 gal	Yes
Blend Alkyl Aryl Polyethoxylate & Na Salt Alkylsulfonatedalkylate (60%)	Latron CS-7®	1 qt/100 gal	Yes
Phthalic glycerol alkyd resin	Latron® B 1956	4 fl oz/100 gal	Yes
	Latron® CS-7	1 qt/100 gal	Yes
Phosphatidylcholine, esters of alkyl polyoxyethylene ether, Methylacetic acid & Propyl Carbinol	LI Combo	3 pint/100 gal	NO
	Lure®	1 qt/100 gal	Yes
Oil- light Paraffinic Distillate	Maximizer®	2 qt/100 gal	Yes
Vegetable oil adjuvant	Natural Organic Oil	2 gal/100 gal	Yes
Nonylphenoxypolyethoxy ethanols, isopropanols and fatty acids	No Foam® A	1 gal/100 gal	Yes
Octyl phenoxy polyethoxy ethanol/ Linear alkyl sulfonate	No Foam® B	3 gal/100 gal	NO
Polydimethylsiloxane + carrier	No Foam® powder	0.5 oz/100 gal	Yes
Di-1-p-Menthene (96%)	NuFilm® 17	3 pint/100 gal	Yes
Poly-p-Menthene	NuFilm® P	1 pint/100 gal	Yes
Dish Soap	Palmolive®	1 gal/100 gal	Yes
Alkyl Polyethoxy Ethers & Ethoxylated Derivatives (80%)	Pen-a-trate II®		Yes
	Penatron®	1 gal/100 gal	NO
Paraffin Pet Oil & Polyol Fatty Acids Esters & Polyethoxylated Derivatives	Penetrator® 3	2 qt/100 gal	Yes
Emulsifiable Oxidized Polyethylene & Ethoxylated Phenol Alcohol (27%)	Plyac®	4 fl oz/100 gal	Yes, wetting agent needed for WP
(2R)-3-(2-hydroxy-3-methoxyphenyl)- 2-[2-methoxy-4-(3-sulfopropyl) phenoxy] propane-1-sulfonic acid	Polyfon H®		Yes
	R-11	1 qt/100 gal	Yes
A-(P-nonylphenyl)-2 hydroxypoly (oxyethylene) 40%, Poly (methylene p- nonylphenoxy) Polyoxypropylene Propanol 33%	R-56	2 qt/100 gal	Yes
Carbohydrates	Seduction®	12 gal/100 gal	Yes
Polyoxyethylene modified polydimethyl siloxane	Silfact®	5 fl oz/100 gal	Yes
Polysiloxane & related	Silken®	5 fl oz/100 gal	Yes
Polydimethylsiloxane & nonionic surfactants	Siltrate®	5 fl oz/100 gal	Yes
Nonionic organosilicone	Silwet® 408	5 fl oz/100 gal	Yes
Organo Modified Polydimethyl Siloxane	Silwet® 560	5 fl oz/100 gal	Yes



Adjuvants (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Polyalkyleneoxide modified heptamethyl trisiloxane	Silwet® 806	5 fl oz/100 gal	Yes
	Silwet® Gold	0.015%	Yes
	Silwet® L-7500	5 fl oz/100 gal	NO
	Silwet® L-77	5 fl oz/100 gal	Yes
Butyl naphthalene sulfonate	Sorbit BNS®		Yes
Soybean Derived Surfactant	Soy Wet	1 qt/100 gal	Yes
Vegetable Oil + spray adjuvant	Spraytech® Organic Oil	2 gal/100 gal	Yes
Alkyl Polyethoxy Ethers & Ethoxylated Derivatives	Spreader 80 HF	1 pint/100 gal	Yes
Polyvinyl Polymer	Staput®	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
Calcium and secret ingredient	Stomafeast®	25 oz/100 gal	Yes
Acrylic polymers	Stress-guard		Yes
	Sureguard® Dormant	1 qt/100 gal	Yes
Alkyl & Alkylaryl Polyethoxyethanol	Surf-Ac® 820	1 qt/100 gal	Yes
Alkyl & Alkylaryl Polyethoxyethylene Glycol (90%)	Surf-Ac® 910	1 qt/100 gal	Yes
	Surfacid®	2 gal/100 gal	Yes
Block polymer of carbonyldiamide polyoxyalklated glycol complex	Syfactant-fine & granular	16 lb/100 gal	Yes
2 (3--Hydroxypropyl) Heptamethyltrisi-loxane, Ethoxylated Acetate Polysiloxane	Sylgard® 309	1 qt/100 gal	Yes
SodiumTripolyphosphate (3.92%), glycol ethers (3.82%), alkyloxypoly (ethyleneoxy) ethanol (3.80%)	Terminator®	2 qt/100 gal	Yes
Yucca extract	Therm X™ 70	2 fl oz/100 gal	Yes
	T-Mulz® AO2	5 gal/100 gal	NO
	T-Mulz® COE	5 gal/100 gal	NO
	T-Mulz® FGO	5 gal/100 gal	Yes
	Turfwetter®	2 qt/100 gal	Yes
	Tween® 80	1 pint/100 gal	Yes
Alkylaryl polyoxethylene glycols & isopropanol	Unifilm® 707	4 fl oz/100 gal	Yes
	Urea	1 gal/100 gal	Yes
	VK I® fogger carrier		NO
	Weco organics	1 gal/100 gal	Yes, but poor emulsion
Alcohol Ethoxylate	Wetcit	0.8% v/v	Yes
	WFSI 2220 (First Choice)	2 qt/100 gal	Yes
Alkyl polyoxyethylene, free fatty acid, glycerol & isopropanol	X-77®	8 fl oz/100 gal	Yes



Adjuvants (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Alkyl polyoxyethylene, glycols, free fatty acids, & isopropanol	X-90®	2 fl oz/100 gal	NO
Canola oil, surfactant, others	Xtend®	0.25 fl oz/gal	Yes

Biocides			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Hydrogen dioxide 27%	Zero Tol®	1 gal/100 gal	NO (Apply 1 day before or 4 days after)
Hydrogen peroxide	Hydrogen Peroxide	3%	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 Microbes®	1 pint/100 gal	Yes
Magnesium sulfate	Epsom Salts	5 lb/100 gal	Yes
1.5-0-0 chemical and organic + microbes	Microbe Plus™ Calcium, Growgreen	2 fl oz/gal	Yes
8.1-0-0 chemical and organic + microbes	Microbe Plus™ High NS, Growgreen	2 fl oz/gal	Yes
5-1-3 chemical and organic + microbes	Microbe Plus™ NPK, Growgreen	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 - + 0.125%, 0.5% -Yes; + 1% - OK; + 3% - NO
0-5-0 chemical and organic + microbes	Phoscal, Growgreen	2 fl oz/gal	Yes
0-0-25	Potassium carbonate	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
3-0-0	Verdanta OFE		Yes
2-0-6	Verdanta PL-2		Yes
35.5% Zn	ZnSO4	0.10%	Yes



Fungicides			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
<i>Ampelomyces quisqualis</i>	AQ10®	3.3 oz/100 gal	Yes
Azoxystrobin and benzovindiflupyr	Mural®	7 fl oz/100 gal	NO (Apply 4 days apart)
Azoxystrobin	Heritage®	40 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> strain 3086, indole-3-butyric acid	Ecogard GN®	64 fl oz/100 gal	NO (Apply 4 days apart)
<i>Bacillus subtilis</i> strain QST 713	CEASE®	4 qt/100 gal	Yes
<i>Bacillus subtilis</i> strain QST 713 + Potassium bicarbonate + <i>Beauveria bassiana</i> strain GHA	CEASE® + MilStop® + BotaniGard 22WP	4 qt + 2.5 lb + 2 lb/100 gal	Yes
<i>Bacillus subtilis</i> strain QST 713	CEASE®	8 qt/100 gal	NO (Apply 1 day apart)
<i>Bacillus amyloliquefaciens</i>	Double Nickel , Stargus®	6 qt/ 100 gal	Yes
<i>Bacillus pumilus</i> strain QST 2808	Sonata®	4 qt/ 100 gal	Yes
Boscalid and Pyraclostrobin	Pageant Intrinsic®	18 fl oz/100 gal	Yes
Bromoxynil	Combine®	3 gal/100 gal	Yes
Captan	Captan® 4000	20 oz/100 gal	NO (Apply 4 days apart)
Chlorothalonil	Bravo 720®	10 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 linoleate	Tenn-Cop 5E®	5 qt/100 gal	Yes
Copper sulphate pentahydrate	Phyton 27®	25 fl oz/100 gal	Yes
Cyprodinil + Fludioxonil	Switch® 62.5 WG		NO (Apply 4 days apart)
Didecylmethyl ammonium chloride, isopropyl alcohol, ethanol (quaternary ammonium compound)	KleenGrow®	25.6 - 51 fl oz/ 100 gal	NO (Apply 3 days apart)
Dimethomorph	Acrobat®	20 oz/100 gal	Yes
Dodemorph-acetate	Meltatox®		Yes
Etridiazole	Terrazole®		Yes
Extract of <i>Reynoutria sachalinensis</i>	Regalia®	1 qt/ 100 gal	Yes
Extract of <i>Reynoutria sachalinensis</i>	Regalia®	4 qt/100 gal	NO (Apply 7 days apart with Regalia rates above 1 qt/100 gal)
Extract of <i>Swinglea glutinosa</i>	EcoSwing®	2 pints/A	Yes
Fenamidone	Fenstop®	28 fl oz/100 gal	Yes
Fenarimol	Rubigan®	12 fl oz/100 gal	Yes
Fenhexamid	Decree®, Elevate® 50 WDG		Yes
Fenpyroximate	Portal® XLO	32 fl oz/100 gal	Yes



Fungicides (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Fludioxonil	Medallion®	16 oz/100 gal	NO (Apply 4 days apart)
Fluopyram	Luna Privilege®		Yes
Fluopyram and pyimethanil	Luna Tranquility®	27 fl oz/100 gal	Yes
Fosetyl-Al	Aliette WDG®	5 lb/100 gal	Yes
Iprodione	Rovral®	2 lb/100 gal	Yes
Iprodione	Chipco 26019®	2 lb/100 gal	NO (Apply 2 days apart)
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)
Mefanoxam	Subdue®		Yes
Mefanoxam 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)
Mefenoxam	Ridomil® Gold		Yes
Metalaxyl & Chlorothalonil	Subdue® & Daconil®	2 gal/100 gal	NO (Apply 3 days apart)
Metrafenone	Vivando®		Yes
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/A	Yes
Myclobutanil	Eagle®	16 oz/100 gal	NO (Apply 2 days apart)
Myclobutanil	Rally 40W®	1 pint/100 gal	Can use same day, but not tank mixed
Oxathiapiprolin	Segovis®	3.2 fl oz/A	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®	2.5 lb/100 gal	Yes
Potassium bicarbonate	MilStop®	5.0 lb/100 gal	NO (Apply 4 days apart)
Propamocarb	Previcur® Energy	38.4 fl oz/100 gal	Yes
Propamocarb	Banol®, Previcur®	4 lb/100 gal	NO (Apply 4 days apart)
Propiconazole	Banner Maxx®	16 fl oz/100 gal	NO (Apply 2 days apart)
Propiconazole	Tilt 45W		NO (Apply 2 days apart)
Pyraclostrobin	Insignia®	16 fl oz /100 gal	NO (Apply 4 days apart)
Pyraclostrobin and Boscalid	Pristine®		Can use same day, but not tank mixed
Pyrethrins	Tersus®	17 fl oz/100 gal	Yes
Pyrimethanil	Scala SC®	7 fl oz/100 gal	Yes
Quinoxifen	Quintec®		Yes
Streptomyces lydicus WYEC 108	Actinovate SP®	24 oz/100 gal	Yes
Sulfur 80%	Microthiol®	2 oz/100 gal	NO (Apply 2 days apart)



Fungicides (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Sulfur	Sulfur - liquid		NO (Apply 2 days before or 3 days after)
Sulfur	Sulfur volatilized (burn pots)		NO (Apply 2 days before or 3 days after)
Tebuconazole	Folicur®	7.7 fl oz	NO (Apply 4 days apart)
Thiophanate-methyl + Zinc + Manganese + ethylene bisdithiocarbamate/Mancozeb	Zyban®	24 oz/100 gal	NO (Apply 4 days apart)
Thiophanate-methyl	Cleary's 3336 WP®	6 lb/100 gal	Yes
Thiophanate-methyl	Topsin® M		Yes
Thiram	Spotrete®	2 lb/100 gal	NO (Apply 4 days apart)
Thiram	Thiram		NO (Apply 4 days apart)
Tolclofos-methyl	Rizalex®		Yes
Triadimefon	Bayleton®	20 oz/100 gal	NO (Apply 2 days apart)
<i>Trichoderma harzianum</i> Rifai strain T-22	RootShield® HC (Canada)	10 g/L	Yes (all formulations)
<i>Trichoderma harzianum</i> Rifai strain T-22	RootShield® WP (when drenched)	5 oz/100 gal	Yes (all formulations)
<i>Trichoderma harzianum</i> Rifai strain T-22, <i>Trichoderma virens</i> strain G-41	RootShield® PLUS+ WP (when drenched)	8 oz/100 gal	Yes (all formulations)
Trifloxystrobin	Flint®		NO (Apply 2 days apart)
Triflumizole	Terraguard 50W®	24 oz/100 gal	NO (Apply 4 days apart)
Triforine	Funginex®	50 fl oz/100 gal	NO (Apply 2 days apart)
Vinclozolin	Curalan®, Ornalin®, Touché®		NO (Apply 2 days apart)
Vinclozolin	Ronilan 50DF®	6.7 lb/100 gal	NO (Apply 2 days apart)

Insecticides / Miticides			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Abamectin	Avid®	24 fl oz/100 gal	Yes, some clabber ¹
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



Insecticides / Miticides (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
Azadirachtin	Neemix 4.5®	2 qt/100 gal	Yes
Azadirachtin	Triact®, Trilogy® 90EC	2% by volume	Yes
Azadirachtin	Triact®, Trilogy® 90EC	2% by volume	Yes
Azadirachtin	Neemazad 1% EC		NO (Apply 4 days apart)
Azadirachtin	Neemix 4.5®	1 gal/100 gal	NO (Apply 4 days apart)
Azadirachtin	Azatin® XL	70 oz/100 gal	Yes
Azadirachtin	Molt-X®	10 fl oz, 20 fl oz/100 gal	Yes
Azinphos-methyl	Guthion® 2L	32 oz/100 gal	Yes
<i>Bacillus thuringiensis subsp. kurstaki</i>	Dipel®		Yes
<i>Bacillus thuringiensis, subsp. israelensis, strain AM 65-52</i>	Gnatrol® WDG	26 oz/100 gal	NO (Apply BotaniGard 4 days after)
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. strain A396</i>	Venerate	4 qt/100 gal	Yes
Capsicum oleoresin extract, garlic oil, soybean oil	Captiva Prime®	1qt/100 gal	Yes
Capsicum oleoresin	Hot Pepper Wax	3% by volume	Yes, spray immediately
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 ¹
<i>Chromobacterium subtsugae</i>	Grandevo®	1 lb/100 gal	Yes
Cyantraniliprole	Mainspring	16 fl oz/ 100 gal	Yes
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®	128 fl oz/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)
Esfenvalerate	Asana® XL	30 fl oz/100 gal	Yes, some clabber ¹



Insecticides / Miticides (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
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
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
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 Apopka Strain 97</i>	Preferal®	28 oz/100 gal	Yes
Lambda-cyhalothrin	Karate®, Scimitar®	20 fl oz/100 gal	Yes
Lambda-cyhalothrin	Matadore 120EC		Yes
Malathion	Fyfanon® ULV, Malathion	79 fl oz/100 gal	Yes, some clabber ¹
Methamidophos	Monitor 4®	32 fl oz/100 gal	Yes
Methiocarb	Mesuroil®	50 lb/100 gal	Yes
Methomyl	Lannate®	24 fl oz/100 gal	Yes
Mineral oil	Orchex® 692, Orchex® 796	2 gal/100 gal	Yes, phyto concern
Mineral oil	SuffOil-X®	2 gal/100 gal	Yes-WP, with constant agitation; ES - Phyto concern
Mineral oil	SunSpray®	2%/400 L	Yes
Mineral Oil	JMS Stylet-Oil®	1 qt/100 gal	Yes, some clabber ¹
Naled (62%)	Dibrom® 8E	1 pint/100 gal	NO (Apply BotaniGard 2 days before)
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 11N, Sun Oil 6E	2 gal/100 gal	Yes, potential phytotoxicity
Piperonyl butoxide	PBO	16 fl oz/100 gal	Yes



Insecticides / Miticides (continued)			
Active Ingredient(s)	Brand Name	Maximum Tested Rate	Compatibility
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
Pyrethrins	Pyganic EC 1.4	64 fl oz/100 gal	Yes
Pyrethrins	Pyganic EC 5.0	17 fl oz/100 gal	Yes
Pyrethrins, Piperonyl butoxide	Pyronyl® Crop Spray	24 fl oz/100 gal	Yes
Pyrethrins, Piperonyl butoxide	EverGreen® Crop Protection 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
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 (Spinosyn A & Spinosyn D)	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 max 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
Thiamethoxam	Flagship 25 WG	8.5 oz/ 100 gal	Yes
Zeta-cypermethrin, pyrethroid	Mustang® 1.5EC	8 L/400 L	Yes

Microbial Inoculants			
Active Ingredient(s)	Brand Name		Compatibility
Microbial Inoculants	EM-1		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 pint/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
Uniconazole-P	Sumagic®		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 bioworksinc.com or from your BioWorks Biological Solutions Advisor.