



Product Compatibility BotaniGard®

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.

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

All chemistries available have not been tested. As a general 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.*

Section 1.			
Adjuvants			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
1st Choice® 2220	Alkylaryl polyoxyethylene glycols and isopropyl alcohol + sodium ethylene diamine tetra-acetate	4 fl oz/100 gal	Yes
1st Choice® 4440	Cottonseed oil and adjuvant	1 gal/100 gal	Yes
1st Choice® 9300	Cottonseed oil and adjuvant	2 gal/100 gal	Yes
1st Choice® Spreader Sticker	Alkylaryl polyoxyethylene glycols and isopropyl alcohol	1 gal/100 gal	Yes
6E	Mineral oil	1 gal/100 gal	Yes, phyto concern
7N	Mineral oil	1 gal/100 gal	Yes, phyto concern
Activate® Plus	Alkylaryl polyethylene glycols, free fatty acids & isopropyl alcohol	2 qt/100 gal	Yes
Activator® 90	Alkylphenol ethoxylate, alcohol ethoxylate, tall oil fatty Acids	2 qt/100 gal	Yes
Agicide Activator®	Petroleum Oil & polyol fatty acid esters	6 qt/100 gal	Yes
Agra Wet®	Ethoxylated soybean derived surfactants	1 qt/100 gal	Yes
Agridex®	Petroleum oil & polyol fatty acid esters	8 qt/100 gal	Yes, poor emulsion with ES
Ammonia®	Ammonia	1 pint/100 gal	Yes ES, NO 22WP
Amway APSA-80 Spreader®	Nonionic Surfactant (Alkyl Aryl Alkoxylate) 20% Free Fatty Acids	1 pint/100 gal	Yes



Adjuvants (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Aquagro [®] 2000L	Ethoxylated Alkyl Phenols	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
Atplus 201 [®]	Polyoxyethylene hexitan ester	2 qt/100 gal	No
Atplus 203 [®]		2 qt/100 gal	Yes
Atplus 435 [®]		2 qt/100 gal	Yes
Atplus 530 [®]		2 qt/100 gal	Yes
AtPlus S10 [®]		2 qt/100 gal	Yes
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
Biosurf [®]	Alkyl Polyethoxy Ethers & Ethoxylated Derivatives	8 fl oz/100 gal	Yes
Blendex [®]	Alkyl Aryl Polyethoxy Ethanol Phosphate Esters (64%)	3 pints/100 gal	No
Bond [®]	Synthetic Latex (45%) & Primary Aliphatic Oxyalkylated Alcohol (10%)	1 qt/100 gal	NO , too sticky
Breakthrough [®]	Polysiloxane	8 fl oz/100 gal	Yes
Capsil 30 [®]	100% blend of polyether- polymethylsiloxane-copolymer and nonionic surfactant	16 fl oz/100 gal	Yes
Cell-U-Wet [®]	Carboxymethylcellulose	2.5 lb/100 gal	Yes
Coax [®]	Carbohydrates	1.5 gal/100 gal	Yes
Co-Spread [®]	Cotton seed oil and adjuvant	10 qt/100 gal	Yes 22WP, NO ES
Crocker's Fish Oil	Fish Oil	2 qt/100 gal	No
Crop Oil Concentrate	Light & Heavy Paraffinic Distillates	4 qt/100 gal	No
DAP-plus	Acidifiers, polyalcohols and glycols, solvents & adjuvants	13 oz/100 gal	Yes
Ecover [®] Soap	Coconut Oil derived surfactant	1 gal/100 gal	Yes 22WP, NO ES
Flood [®]		3 gal/100 gal	Yes
Flozine [®]	Polysaccharide gum (45.1%) + inerts	4 oz/100 gal	NO
Foamaster Soap L		3 qt/100 gal	Yes
Freeway [®]	Silicone-polyether copolymer & alcohol ethoxylates	1 pint/100 gal	Yes
Galactic [®]	Polydimethyl siloxane & nonionic surfactants	12 fl oz/100 gal	Yes
Hasten [®]	Esterified vegetable oil & nonionic surfactant	1 qt/100 gal	Yes
Herbicide Activator	Petroleum distillate and adjuvant	1 qt/100 gal	NO
Herbimax [®]	Pet Hydrocarbons (83%) + Mono & Diesters of Omega Hydroxypoly oxyethylene	2 qt/100 gal	Yes
Hold-UP [®]	(AL-O-Si) x	1 qt/100 gal	NO
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Adjuvants (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Hydrogen Peroxide		3%	No
Indicate-5 [®]	Alkyl Aryl Ethoxylates	24 fl oz/100 gal	Yes
Intac [®]	Polymers & Copolymers (10%)	2 qt/100 gal	No
Ivory Soap [®]		2 qt/100 gal	NO
Joint Venture [®]	Polyalkeleneoxide modified organosilicones, etc.	1 qt/100 gal	Yes
Kinetic [®]	Polyalkyleneoxide modified Polydimethylsiloxane & non-ionic Surfactants	64 fl oz/100 gal	Yes
K-tonic [®]		15 gal/100 gal	Yes
Latron Ag 44 M [®]	Octylphnoxypolyethoxyethylphosphate, Butyl Alcohol & silicon Antifoam	2 qt/100 gal	NO
Latron Ag-98 [®]	Nonylphenoxypolyethoxy Ethanol, Butyl Alcohol & silicone Antifoam	2 qt/100 gal	Yes
Latron B-1956 [®]	Modified Phthalic Glycerol Alkyd Resin (77%)	1 qt/100 gal	Yes
Latron CS-7 [®]	Blend Alkyl Aryl Polyethoxylate & Na Salt Alkylsulfonatedalkylate (60%)	1 qt/100 gal	Yes
Latron [®] B 1956	Phthalic glycerol alkyd resin	4 fl oz/100 gal	Yes
Latron [®] CS-7		1 qt/100 gal	Yes
LI Combo	Phosphatidylcholine, esters of alkyl polyoxyethylene ether, Methyacetic acis & Propyl Carbinol	3 pint/100 gal	NO
Lure [®]		1 qt/100 gal	Yes
Maximizer [®]	Oil- light Paraffinic Distillate	2 qt/100 gal	Yes
Natural Organic Oil	Vegetable oil adjuvant	2 gal/100 gal	Yes
No Foam A	Nonylphenoxypolyethoxy ethanols, isopropanols and fatty acids	1 gal/100 gal	Yes
No Foam [®] B	Octyl phenoxy polyethoxy ethanol/ Linear alkyl sulfonate	3 gal/100 gal	NO
No Foam [®] powder	Polydimethylsiloxane + carrier	0.5 oz/100 gal	Yes
NuFilm [®] 17	Di-1-p-Menthene (96%)	3 pint/100 gal	Yes
NuFilm [®] P	Poly-p-Menthene	1 pint/100 gal	Yes
Palmolive [®]	Dish Soap	1 gal/100 gal	Yes
Pen-a-trate II [®]	Alkyl Polyethoxy Ethers & Ethoxylated Derivatives (80%)		Yes
Penatron [®]		1 gal/100 gal	NO
Penetrator [®] 3	Paraffin Pet Oil & Polyol Fatty Acids Esters & Polyethoxylated Derivatives	2 qt/100 gal	Yes
Plyac [®]	Emulsifiable Oxidized Polyethylene & Ethoxylated Phenox Alcohol (27%)	4 fl oz/100 gal	Yes, wetting agent needed for WPC





Adjuvants (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Polyfon H [®]	(2R)-3-(2-hydroxy-3-methoxyphenyl)- 2-[2-methoxy-4-(3-sulfopropyl) phenoxy] propane-1-sulfonic acid		Yes
R-11		1 qt/100 gal	Yes
R-56	A-(P-nonylphenyl)-2 hydroxypoly (oxyethylene) 40%, Poly (methylene p- nonylphenoxy) Polyoxypropylene Propanol 33%	2 qt/100 gal	Yes
Seduction [®]	Carbohydrates	12 gal/100 gal	Yes
Silfact [®]	Polyoxyethylene modified polydimethyl siloxane	5 fl oz/100 gal	Yes
Silken [®]	Polysiloxane & related	5 fl oz/100 gal	Yes
Siltrate [®]	Polydimethylsiloxane & nonionic surfactants	5 fl oz/100 gal	Yes
Silwet [®] 408	Nonionic organosilicone	5 fl oz/100 gal	Yes
Silwet [®] 560	Organo Modified Polydimethyl Siloxane	5 fl oz/100 gal	Yes
Silwet [®] 806	Polyalkyleneoxide modified heptamethyl trisiloxane	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
Sorbit BNS [®]	Butyl naphthalene sulfonate		Yes
Soy Wet	Soybean Derived Surfactant	1 qt/100 gal	Yes
Spraytech [®] Organic Oil	Vegetable Oil + spray adjuvant	2 gal/100 gal	Yes
Spreader 80 HF	Alkyl Polyethoxy Ethers & Ethoxylated Derivatives	1 pint/100 gal	Yes
Staput [®]	Polyvinyl Polymer	3 qt/100 gal	Yes
Stepwet [®] DF-90	Sodium Dodecylbenzene Sulfonate	20 oz/100 gal	Yes
Stepwet [®] DF-95	Sodium Lauryl Sulfate	20 oz/100 gal	Yes
Stomafeast [®]	Calcium and secret ingredient	25 oz/100 gal	Yes
Stress-guard	Acrylic polymers		Yes
Sureguard [®] Dormant		1 qt/100 gal	Yes
Surf-Ac [®] 820	Alkyl & Alkylaryl Polyethoxyethanol	1 qt/100 gal	Yes
Surf-Ac [®] 910	Alkyl & Alkylaryl Polyethoxyethylene Glycol (90%)	1 qt/100 gal	Yes
Surfacid [®]		2 gal/100 gal	Yes
Syfactant-fine & granular	Block polymer of carbonyldiamide polyoxyalklated glycol complex	16 lb/100 gal	Yes
Sylgard [®] 309	2 (3--Hydroxypropyl) Heptamethyltrisiloxane, Ethoxylated Acetate Polysiloxane	1 qt/100 gal	Yes
Terminator [®]	Sodium Tripolyphosphate (3.92%), glycol ethers (3.82%), alkyloxypoly (ethyleneoxy) ethanol (3.80%)	2 qt/100 gal	Yes
Therm X™ 70	Yucca extract	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



Adjuvants (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Turfwetter®		2 qt/100 gal	Yes
Tween® 80	Polyoxyethylene (20) sorbitan monooleate	1 pint/100 gal	Yes
Unifilm® 707	Alkylaryl polyoxethylene glycols & isopropanol	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
Wetcit	Alcohol Ethoxylate	0.8% v/v	Yes
WFSI 2220 (First Choice)		2 qt/100 gal	Yes
X-77®	Alkyl polyoxyethylene, free fatty acid, glycerol & isopropanol	8 fl oz/100 gal	Yes
X-90®	Alkyl polyoxyethylene, glycols, free fatty acids, & isopropanol	2 fl oz/100 gal	NO
Xtend®	Canola oil, surfactant, others	0.25 fl oz/gal	Yes

Section 2.

Fertilizers			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Amino Elite™, Growgreen	3-0-0 chemical and organic + microbes	2 fl oz/gal	Yes
Biozyme®		25 gal/100 gal	Yes
Effective Microbes®		1 pint/100 gal	Yes
Magnesium sulfate/Epsom Salts	Magnesium sulfate	5 lb/100 gal	Yes
Microbe Plus™ Calcium, Growgreen	1.5-0-0 chemical and organic + microbes	2 fl oz/gal	Yes
Microbe Plus™ High NS, Growgreen	8.1-0-0 chemical and organic + microbes	2 fl oz/gal	Yes
Microbe Plus™ NPK, Growgreen	5-1-3 chemical and organic + microbes	2 fl oz/gal	Yes
Nature's Source	10-4-3 oilseed extract + chemical fertilizer	1:4, 1:7 1:12	Yes
Nutra-Phos 24®	Calcium phosphorus	12 lb/100 gal	Yes
NutriFOG®	10-3-3 Fertilizer and stabilizer, proprietary	1:4, 1:7 1:12	Yes
Nutri-Phite®	Phosphorous acid	6 qt/100 gal	Yes



Fertilizers (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
On-Gard®	5-0-0	3% v/v (3 gal/100 gal)	<ul style="list-style-type: none"> • BotaniGard ES, Yes • BotaniGard 22WP + 1% OK, 3%, NO • BotaniGard 22WP + 0.125% and 0.5%, Yes
Phoscal, Growgreen	0-5-0 chemical and organic + microbes	2 fl oz/gal	Yes
Potassium carbonate	0-0-25	2.5 lb/100 gal	Yes
Trisert® Foliar Fertilizer	13-3-4	Up to 10%	Yes
Urea	46-0-0	1 gal/100 gal	Yes
Verdanta OFE	3-0-0		Yes
Verdanta PL-2	2-0-6		Yes
ZnSO ₄	35.5% Zn	0.10%	Yes

Section 3.

Subsection a. Tank Mix Compatible

Fungicides – Tank Mix Compatible

Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Acrobat®	Dimethomorph	20 oz/100 gal	Yes
Actinovate SP®	<i>Streptomyces lydicus</i> WYEC 108	24 oz/100 gal	Yes
Aliette WDG®	Fosetyl-Al	5 lb/100 gal	Yes
AQ10®	<i>Ampelomyces quisqualis</i>	3.3 oz/100 gal	Yes
CEASE®	<i>Bacillus subtilis</i> strain QST 713	8 qt/100 gal	NO 1 day B/A ²
CEASE®	<i>Bacillus subtilis</i> strain QST 713	4 qt/100 gal	Yes
CEASE® + MilStop®+ BotaniGard 22WP	<i>Bacillus subtilis</i> strain QST 713 + Potassium bicarbonate + <i>Beauveria bassiana</i> strain GHA	4 qt + 2.5 lb + 2 lb/100 gal	Yes
Cleary's 3336 WP®	Thiophanate-methyl	6 lb/100 gal	Yes
Combine®	Bromoxynil	3 gal/100 gal	Yes
Decree®	Fenhexamid		Yes
Double Nickel	<i>Bacillus amyloliquefaciens</i>	6 qt/ 100 gal	Yes
Elevate® 50 WDG	Fenhexamid		Yes
Fenstop®	Fenamidone	28 fl oz/100 gal	Yes
Kocide® 3000	Copper Hydroxide	16 lb/100 gal	Yes



Fungicides – Tank Mix Compatible (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Luna Privilege®	Fluopyram		Yes
Luna Tranquility®	Fluopyram and pymethanil	27 fl oz/100 gal	Yes
Meltatox®	Dodemorph-acetate		Yes
MilStop®	Potassium bicarbonate	2.5 lb/100 gal	Yes
MilStop®	Potassium bicarbonate	5.0 lb/100 gal	NO 4 Days B/A ²
Pageant Intrinsic®	Boscalid and Pyraclostrobin	18 fl oz/100 gal	Yes
Phyton 27®	Copper sulphate pentahydrate	25 fl oz/100 gal	Yes
Portal® XLO	Fenpyroximate	32 fl oz/100 gal	Yes
Previcur® Energy	Propamocarb	38.4 fl oz/100 gal	Yes
Quintec®	Quinoxifen		Yes
Regalia®	Extract of <i>Reynoutria sachalinensis</i>	1 qt/ 100 gal	Yes
Ridomil® Gold	Mefenoxam		Yes
Rizolex®	Tolclofos-methyl		Yes
RootShield® HC (Canada)	<i>Trichoderma harzianum</i> Rifai strain T-22	10 g/L	Yes (all formulations)
RootShield® PLUS+ WP (when drenched)	<i>Trichoderma harzianum</i> Rifai strain T-22, <i>Trichoderma virens</i> strain G-41	8 oz/100 gal	Yes (all formulations)
RootShield® WP (when drenched)	<i>Trichoderma harzianum</i> Rifai strain T-22	5 oz/100 gal	Yes (all formulations)
Rovral®	Iprodione	2 lb/100 gal	Yes
Rubigan®	Fenarimol	12 fl oz/100 gal	Yes
Scala SC®	Pyrimethanil	7 fl oz/100 gal	Yes
Sonata®	<i>Bacillus pumilus</i> strain QST 2808	4 qt/ 100 gal	Yes
Stargus®	<i>Bacillus amyloliquefaciens</i>	6 qt/ 100 gal	Yes
Subdue®	Mefanoxam		Yes
Tenn-Cop 5E®	Copper linoleate	5 qt/100 gal	Yes
Terrazole®	Etridiazole		Yes
Tersus®	Pyrethrins	17 fl oz/100 gal	Yes
Topsin® M	Thiophanate-methyl		Yes
Vivando®	Metrafenone		Yes



Subsection b. Pre- and Post-Application

Fungicides – Pre- and Post-Application Compatible

Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Alude®	Mono- and di-potassium salts of phosphorous acid	12.75 fl oz /100 gal	4 days B/A ²
Banner Maxx®	Propiconazole	16 fl oz/100 gal	2 days B/A ²
Banol®	Propamocarb	4 lb/100 gal	4 days B/A ²
Bayleton®	Triadimefon	20 oz/100 gal	2 days B/A ²
Bravo 720®	Chlorothalonil	10 pt/100 gal	4 days B/A ²
Captan® 4000	Captan	20 oz/100 gal	4 days B/A ²
CEASE®	<i>Bacillus subtilis</i> strain QST 713	8 qt/100 gal	NO 1 day B/A ²
CEASE®	<i>Bacillus subtilis</i> strain QST 713	4 qt/100 gal	Yes, compatible at the 4 qt/100 gal. rate
Chipco 26019®	Iprodione	2 lb/100 gal	2 days B/A ²
Copper Count-N®	Copper ammonium carbonate	3 qt/100 gal	2 days B/A ²
Curalan®	Vinclozolin		2 days B/A ²
Daconil®	Chlorothalonil	2 qt/100 gal	4 days B/A ²
Dithane F-45®	Mancozeb	8 qt/100 gal	4 days B/A ²
Eagle®	Myclobutanil	16 oz/100 gal	2 days B/A ²
Ecogard GN®	<i>Bacillus licheniformis</i> strain 3086, indole-3-butyric acid	64 fl oz /100 gal	4 days B/A ²
Endorse®, Affirm® WDG	Polyoxin D zinc salt	2.2 lb/100 gal	4 days B/A ²
Flint®	Trifloxystrobin		2 days B/A ²
Folicur®	Tebuconazole	7.7 fl oz	4 days B/A ²
Funginex®	Triforine	50 fl oz/ 100 gal	2 days B/A ²
Heritage®	Azoxystrobin	40 oz/100 gal	4 days B/A ²
Hurricane®	Mefanoxam and fludioxonil	1.5 oz/100 gal	4 days B/A ²
Insignia®	Pyraclostrobin	16 fl oz / 100 gal	4 days B/A ²
KleenGrow®	Didecyldimethyl ammonium chloride, isopropyl alcohol, ethanol (quaternary ammonium compound)	25.6 - 51 fl oz/100 gal	3 days B/A ²
Maneb 80®	Maneb	5 lb/100 gal	4 days B/A ²



Fungicides – Pre- and Post-Application Compatible			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Medallion®	Fludioxonil	16 oz/100 gal	4 days B/A ²
Microthiol®	Sulfur 80%	2 oz/100 gal	2 days B/A ²
MilStop®	Potassium bicarbonate	2.5 lb/100 gal	Yes
MilStop®	Potassium bicarbonate	5.0 lb/100 gal	4 days B/A ²
Ornalin®	Vinclozolin		2 days B/A ²
Pipron®	Piperalin	8 fl oz/100 gal	2 days B/A ²
Previcur®	Propamocarb	4 lb/100 gal	4 days B/A ²
Pristine®	Pyraclostrobin and Boscalid		Can use same day, but not tank mixed
Quadris®	Azoxystrobin	15.5 fl oz/100 gal	4 days B/A ²
Rally 40W®	Myclobutanil	1 pint/100 gal	Same day, not mixed
Regalia®	Extract of <i>Reynoutria sachalinensis</i>	4 qt/100 gal	7-day interval with Regalia rates above 1 qt/100 gal
Ridomil® Gold Bravo	Mefenoxam + Chlorothalonil	9 lb/100 gal	4 days B/A ²
Ronilan 50DF®	Vinclozolin	6.7 lb/100 gal	2 hours B/A ²
Spotrete®	Thiram	2 lb/100 gal	4 days B/A ²
Subdue® & Daconil®	Metalaxyl & Chlorothalonil	2 gal/100 gal	3 days B/A ²
Sulfur - liquid	Sulfur		2 days Before/3 days After
Sulfur volatilized (burn pots)	Sulfur		2 days Before/3 days After
Switch	Cyprodinil + Fludioxonil		4 days B/A ²
Terraguard 50W®	Triflumizole	24 oz/100 gal	4 days B/A ²
Thiram	Thiram		4 days B/A ²
Tilt 45W	Propiconazole		2 days B/A ²
Touché®	Vinclozolin		2 days B/A ²
Zero To!®	27% hydrogen dioxide	1 gal/100 gal	1 day before, 4 days after
Zyban®	Thiophanate-methyl + Zinc + Manganese + ethylene bisdithiocarbamate/Mancozeb	24 oz/100 gal	4 days B/A ²



Section 4. Insecticides / Miticides

Subsection a. Tank Mix Compatible

Insecticides / Miticides – Tank Mix Compatible			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Acephate	Acephate	1 qt/100 gal	Yes
Adept®	Diflubenzuron	8 oz/100 gal	Yes
Ambush®	Permethrin, pyrethroid	42 fl oz/100 gal	Yes
Applaud® 70% WP	Buprofezin	20 oz/100 gal	Yes
Asana® XL	Esfenvalerate	30 fl oz/100 gal	Yes, some clabber ¹
Avid®	Abamectin	24 fl oz/100 gal	Yes, some clabber ¹
Avid®	Abamectin	240 ml/400 L	Yes, mix and spray immediately
Azatin® XL	Azadirachtin	70 oz/100 gal	Yes
Azatin® XL	Azadirachtin	630 ml/400 L	Yes
Baythroid®	Cyfluthrin, pyrethroid	20 lb/100 gal	Yes
Butacide®	Piperonyl butoxide, pyrethroid	12 gal/100 gal	Yes
Citation®	Cyromazine	2 gal/100 gal	Yes
Conserve®SC	Spinosad (Spinosyn A & Spinosyn D)	32 fl oz/100 gal	Yes
Cygon®	Dimethoate	24 fl oz/100 gal	Yes, with ES; NO 22WP
Cymbush®	Cypermethrin	14 oz/100 gal	Yes
Danitol® 2.4ES	Fenpropathrin, pyrethroid	38 oz/100 gal	Yes - WP 5% viability loss
Decathlon®	Baythroid, pyrethroid	1.9 oz/100 gal	Yes
Decathlon®	Baythroid, pyrethroid	57 ml/400 L	Yes
Delegate	Spinetoram	5 fl oz/ 30 gal	Yes
Diazinon® 4E	Diazinon	24 oz/100 gal	Yes
Diazinon® 4E	Diazinon	480 ml/400 L	Yes
Dimilin® 25W, 2F	Diflubenzuron	26 oz/100 gal	Yes
Dipel®	<i>Bacillus thuringiensis</i> spp. <i>kurstaki</i>		Yes
Dursban® 50W	Chlorpyrifos	32 oz/100 gal	Yes
Dursban® 50W	Chlorpyrifos	960 ml/400 L	Yes
Empower®	Garlic extract	25 gal/100 gal	Yes
Endeavor®	Pymetrozine	1.5 lb/100 gal	Yes
Enstar® II	S-Kinoprene	20 fl oz/100 gal	Yes
Entrust	Spinosad	10 fl oz/100 gal	Yes
EverGreen® Crop Protection 60-6	Pyrethrin, Piperonyl butoxide	53 fl oz/100 gal	Yes, mix BotaniGard ^{1st}



Insecticides / Miticides – Tank Mix Compatible (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Flagship 25 WG	Thiamethoxam	8.5 oz/ 100 gal	Yes
Fyfanon® ULV	Malathion	79 oz/100 gal	Yes, some clabber ¹
Garlic Barrier	Garlic extract	11 gal/100 gal	Yes
Grandevo®	<i>Chromobacterium subtsugae</i>	1 lb/100 gal	Yes
Guthion® 2L	Azinphos-methyl	32 oz/100 gal	Yes
Hexygon®	Hexythiazox	6 oz/100 gal	Yes
Hexygon®	Hexythiazox	60 ml/400 L	Yes
Hot Pepper Wax	Capsicum	3 gal/100 gal	Yes
Hot Pepper Wax	Capsicum oleoresin	3% by volume/400 L	Yes, spray immediately
Incite®	Piperonyl butoxide, pyrethroid	26 fl oz/100 gal	Yes
JMS Stylet-Oil®	Mineral Oil	1 qt/100 gal	Yes, some clabber ¹
Judo®	Spiromesifen	4 fl oz/100 gal	Yes, 2-hour max tank life
Karate®	Lambda-cyhalothrin, pyrethroid	20 fl oz/100 gal	Yes
Kelthane EC®	Dicofol	128 fl oz/100 gal	Yes
Kontos®	Spirotetramat	2.4 oz/100 gal	Yes
Lannate®	Methomyl	24 fl oz/100 gal	Yes
Lorsban EC®	Chlorpyrifos	52 fl oz/100 gal	Yes, some clabber ¹
Mainspring	Cyantranilprole	16 fl oz/ 100 gal	Yes
Malathion	Malathion	79 fl oz/100 gal	Yes, some clabber ¹
Marathon®	Imidacloprid	50 ml & 100 ml/100 gal	Yes
Mavrik®	Tau-fluvalinate	10 fl oz/100 gal	Yes
Mavrik®	Tau-fluvalinate	300 ml/400 L	Yes
Merit®	Imidacloprid	50 ml & 100 ml/100 gal	Yes
Mesuro®	Methiocarb	50 lb/100 gal	Yes
Molt-X®	Azadirachtin	10 fl oz, 20 fl oz/100 gal	Yes
Monitor 4®	Methamidophos	32 fl oz/100 gal	Yes
Movento	spirotetramat	10 fl oz/100 gal	Yes
M-Pede®	Potassium salts of fatty acids	2 gal/ 100 gal 8 L/400 L	Yes, mix BotaniGard 1 st
Mustang® 1.5EC	Zeta-cypermethrin, pyrethroid	10 fl oz/100 gal	Yes
Natur'l Oil	Soybean oil with surfactant	1 qt/100 gal	Yes



Insecticides / Miticides – Tank Mix Compatible (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Neemix 4.5®	Azadirachtin	2 qt/100 gal	Yes
Omite®	Propargite	44 lb/100 gal	Yes
Orchex® 692	Mineral oil	2 gal/100 gal	Yes, phyto concern
Orchex® 796	Mineral oil	2 gal/100 gal	Yes, phyto concern
Orthene®	Acephate	630 ml/400 L	Yes
Orthene® 75S	Acephate	2.5 lb/100 gal	Yes
Ovasyn®	Amitraz	64 fl oz/100 gal	Yes
Palmolive® soap	Soap	2.9 L/400 L	Yes
PBO	Piperonyl butoxide, pyrethroid	16 fl oz/100 gal	Yes
PBO	Piperonyl butoxide, pyrethroid	480 ml/400 L	Yes
Precision®	Fenoxycarb	4 oz/100 gal	Yes
Preferal®	<i>Isaria fumosorosae</i> Apopka Strain 97	28 oz/100 gal	Yes
Provado® 1.6F	Imidacloprid	6 gal/100 gal	Yes
Pyganic EC 1.4	Pyrethrins	64 fl oz/100 gal	Yes
Pyganic EC 5.0	Pyrethrins	17 fl oz/100 gal	Yes
Pyrenone®	Piperonyl butoxide, pyrethroid	5 gal/100 gal	Yes
Pyrenone®	Piperonyl butoxide, pyrethroid	360 ml/400 L	Yes
Pyronyl® Crop Spray	Pyrethrins, Piperonyl butoxide	24 fl oz/100 gal	Yes
Safari®	Dinotefuran	8 oz/100 gal	Yes
Sanmite®	Pyridaben	25 lb/100 gal	Yes
Savey®	Hexythiazox	10 oz/100 gal	Yes, mix and spray immediately
Scimitar®	Lambda-cyhalothrin, pyrethroid	20 fl oz/100 gal	Yes
Sevin® 80S	Carbaryl	48 oz/100 gal	Yes
Sevin® 80S	Carbaryl	1.4 L/400 L	Yes
Success®	Spinosad	6 gal/100 gal	Yes
SuffOil-X®	Mineral oil	1 gal/100 gal	Yes, with constant agitation
SuffOil-X®	Mineral oil	2 gal/100 gal	Yes WP, Phyto concern with ES
SuffOil-X®	Mineral oil	1 gal/100 gal	Yes, constant agitation
Sun Oil 11N	Petroleum Oil	2 gal/100 gal	Yes, be aware of potential phytotoxicity



Insecticides / Miticides – Tank Mix Compatible (continued)			
Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Sun Oil 11N	Petroleum Oil	2 gal/100 gal	Yes, be aware of potential phytotoxicity
Sun Oil 11N	Petroleum Oil	2 gal/100 gal	Yes, be aware of potential phytotoxicity
Sun Oil 6E	Petroleum Oil	2 gal/100 gal	Yes, be aware of potential phytotoxicity
Sun Oil 6E	Petroleum Oil	2 gal/100 gal	Yes, be aware of potential phytotoxicity
Sun Oil 6E	Petroleum Oil	2 gal/100 gal	Yes, be aware of potential phytotoxicity
SunSpray®	Mineral oil	2%/400 L	Yes
SunSpray®	Mineral oil	2%/400 L	Yes
SunSpray®	Mineral oil	2%/400 L	Yes
SunSpray® Oil	Refined petroleum distillate	2 gal/100 gal	Yes
SunSpray® Oil	Refined petroleum distillate	2 gal/100 gal	Yes
Talstar®	Bifenthrin, pyrethroid	40 fl oz/100 gal	Yes
Talstar®	Bifenthrin, pyrethroid	1.2 L/400 L	Yes
Talstar®	Bifenthrin, pyrethroid	40 oz/100 gal	Yes
Talstar®	Bifenthrin, pyrethroid	1.2 L/400 L	Yes
Talstar®	Bifenthrin, pyrethroid	40 oz/100 gal	Yes
Talstar®	Bifenthrin, pyrethroid	1.2 L/400 L	Yes
Talus®	Buprofezin	18 fl oz/100 gal	Yes
Tame®	Fenpropathrin, pyrethroid	24 fl oz/100 gal	Yes
Tame®	Fenpropathrin, pyrethroid	24 oz/100 gal	Yes
Tame®	Fenpropathrin, pyrethroid	24 oz/100 gal	Yes
Tempo®	Cyfluthrin, pyrethroid	20 lb/100 gal	Yes
Tempo®	Cyfluthrin, pyrethroid	20 lb/100 gal	Yes
Tempo®	Cyfluthrin, pyrethroid	20 lb/100 gal	Yes
TetraCURB®	Rosemary oil	8 qt/100 gal	Yes
Thiodan® 3EC	Endosulfan	22 fl oz/100 gal	Yes
Thiodan® 3EC	Endosulfan	660 ml/400 L	Yes
Triact®	Azadirachtin	2% by volume	Yes
Trilogy® 90EC	Azadirachtin	2 gal/100 gal	Yes
Vendex®	Fenbutatin oxide	16 oz/100 gal	Yes
Vendex®	Fenbutatin oxide	480 ml/400 L	Yes
Venerate	<i>Burkholderia</i> spp. strain A396	4 qt/100 gal	Yes
Vydate®	Oxamyl	2 qts/100 gal	Yes



Section 4. Insecticides / Miticides

Subsection b. Pre- and Post-Application

Insecticides / Miticides – Pre- and Post-Application

Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
Dibrom® 8E	Naled (62%)	1 pint/100 gal	2 days before
Distance®	Pyriproxyfen	12 fl oz/100 gal	3 days B/A ²
Enstar® AQ	S-Kinoprene	32 fl oz/100 gal	1 day B/A ²
Gnatrol® WDG	<i>Bacillus thuringiensis</i> , subsp. <i>Israelensis</i> , strain AM 65-52	26 oz/100 gal	Apply BotaniGard 4 days after
Metasystox R-2®	Oxydemeton-methyl	3 qts/100 gal	4 days B/A ²
Metasystox-R®	Oxydemeton-methyl	3.3 L/400 L	4 days B/A ²
Microthiol®	Sulfur 80%	2 oz/100 gal	2 days B/A ²
Monitor 4®	Methamidophos	32 oz/100 gal	Yes
Neemazad 1% EC	Azadirachtin		4 days B/A ²
Neemix 4.5®	Azadirachtin	1 gal/100 gal	4 days B/A ²
SuffOil-X®	Mineral oil	2 gal/100 gal	4 days B/A ²
Thiodan® 3EC	Endosulfan	1.9 L/400 L	4 days B/A ²

Section 5.

Microbial Inoculants

Brand Name	Compatibility
EM-1	Yes

Section 6.

Plant Growth Regulators

Brand Name	Active Ingredient	Maximum Tested Rate	Compatibility Comment
A-Rest®	Ancymidol	2 fl oz/100 gal	Yes
B-Nine®	Daminozide	2 gal/100 gal	Yes
Bonzi®	Paclobutrazol	2.6 oz/100 gal	Yes
Cycocel®	Chlorocholine chloride	3 pint/100 gal	Yes
Gib Gro®	Gibberillic acid	24 fl oz/100 gal	Yes
Sumagic®	Uniconazole-P	50 gal/100 gal	Yes

¹Clabber is the development of a cottage cheese or sour milk consistency (thickening or curdling).

²B/A = Before/After

Refer to product labels for complete application details. Additional technical information is available on our website (bioworksinc.com) or from your BioWorks technical sales representative. Always read and follow label directions.