

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 (meth-ylene 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 ₄ | 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 <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 at rates > 1 qt/100 gal) |
| Extract of <i>Swinglea glutinosa</i> | 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 WDG® | 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 clabber1 |
| <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 |
| Fenprothrin, pyrethroid | Tame® | 24 fl oz/100 gal | Yes |
| Fenprothrin, 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 or from your Certis Biologicals representative.