



## Product Compatibility

### NemaShield®

NemaShield contains the beneficial nematode *Steinernema feltiae* that is ideally suited for the control of fungus gnat larvae (commonly *Bradysia* spp.). It will also control thrips species that spend a portion of their life cycle in the soil or potting media. A properly applied single application of NemaShield will kill fungus gnat larvae that are feeding on plant roots. NemaShield should be applied at the first sign of pests, when pest pressure is low, to prevent severe infestations. Listed below are products that have been tested for their impact on NemaShield viability when being considered for a pest management program.

| Adjuvants                                   |   |               |
|---|---|---------------|
| Active Ingredient(s)                        | Brand Name  | Compatibility |
| nonionic wetting agent                      | Affinity / Aquanova   | Yes           |
| alkylphenol ethoxylate                      | Agral 90 / Luxan non-ionic  | Yes           |
| foliar adjuvant                             | Agral Gold / Motto  | Yes           |
| soil wetting agent                          | AquaGro L / AquaSmart / Drench / Duplex / FloSmart / H2Gro / H2Pro Conserve / H2Pro Maximise / Impact / Li700 / TriSmart / Primer Choice / Primer 604 | Yes           |
| modified yucca plant extract                | Canteen   | Yes           |
| nonionic surfactant                         | Capsil  | Yes           |
| rapeseed oil                                | Celect  | Yes           |
| vegetable oil                               | Codacide  | Yes           |
| alkoxylated polyols and glucoethers         | Dispatch  | Yes           |
| ammonium laureth sulphate                   | Eco-Sc  | Yes           |
| spray dye indicator                         | Hi-light WPS  | Yes           |
| blended water modifier                      | Infiltrx  | Yes           |
| nonionic wetter/spreader                    | Kinetic HV  | Yes           |
| poly-1-p-menthene                           | Nu Film   | Yes           |
| organosilicone                              | Silwet L-77 / Zipper / Break-Thru / PBI Invigorator   | Yes           |
| polysiloxane polyether copolymer, polyether | Slither   | Yes           |
| soil conditioner                            | Transformer   | Yes           |
| 1,2 bis-ethanesulphonate                    | ZinZan  | Yes           |

| Biocides                           |                      |               |
|------------------------------------|----------------------|---------------|
| Active Ingredient                  | Brand Name           | Compatibility |
| didecyl dimethyl ammonium chloride | Kleengrow            | <b>NO</b>     |
| hydrogen peroxide                  | <b>PERpose Plus™</b> | <b>NO</b>     |
| hydrogen dioxide/peroxyacetic      | ZeroTol              | <b>NO</b>     |
| chlorine                           | Bleach               | <b>NO</b>     |

| <b>BCAs: Biological Control Agents (beneficial insects)</b> |                   |                         |
|---|-------------------|-------------------------|
| <b>Active Ingredient</b>                                    | <b>Brand Name</b> | <b>Compatibility</b>    |
| <i>Amblyseius</i> spp.                                      | Various           | <b>Apply separately</b> |
| <i>Encarsia</i> spp.  | Various           | <b>Apply separately</b> |
| <i>Orius</i> spp.   | Various           | <b>Apply separately</b> |
| <i>Phytoseiulus</i> spp.                                    | Various           | <b>Apply separately</b> |

| <b>Fertilizers</b>       |                       |                      |
|--------------------------|-----------------------|----------------------|
| <b>Active Ingredient</b> | <b>Brand Name</b>     | <b>Compatibility</b> |
| 2-0-6 fertilizer         | <b>Verdanta® PL-2</b> | Yes                  |
| compost tea              | Various               | Yes                  |
| liquid nitrogen          | Yara Nuram 37         | Yes                  |
| magnesium sulfate        | Epsom Salt            | Yes                  |

| <b>Fungicides</b>                          |                             |                                     |
|--|-----------------------------|-------------------------------------|
| <b>Active Ingredient</b>                   | <b>Brand Name</b>           | <b>Compatibility</b>                |
| anilazine                                  | Dyrene                      | <b>NO</b>                           |
| azoxystrobin                               | Amistar / Abound / Heritage | Yes                                 |
| azoxystrobin + benzoindiflupyr             | Mural WG                    | Yes                                 |
| azoxystrobin + difenoconazole              | Amistar top                 | Yes                                 |
| <i>Bacillus amyloliquefasciens</i>         | Serifel                     | Yes                                 |
| <i>B. amyloliquefasciens</i> strain F727   | Stargus                     | Yes                                 |
| <i>Bacillus subtilis</i> QST 713           | <b>CEASE®</b>               | Yes                                 |
| <i>Bacillus subtilis</i> QST 713           | Serenade                    | Yes                                 |
| benomyl                                    | Benlate                     | Yes                                 |
| boscalid + pyraclostrobin                  | Pageant / Pristine / Signum | Yes                                 |
| bromine chlorine                           | Agribrom                    | Yes                                 |
| chlorothalonil                             | Bravo / Daconil / Repulse   | Yes                                 |
| cinnamaldehyde                             | Cinnamate                   | <b>NO</b>                           |
| copper hydroxide                           | Kocide / Champ / Cupro      | Yes                                 |
| copper sulphate                            | Wetcol 3                    | Yes                                 |
| cyazofamid                                 | Segway O                    | Yes                                 |
| cyprodinil + fludioxonil                   | Switch                      | <b>NO</b>                           |
| difenoconazole                             | Plover                      | Yes                                 |
| dimethomorph                               | Stature                     | Yes                                 |
| dimethomorph + ametoctradin                | Orvego                      | Yes                                 |
| dimethyl benzyl ammonium CL                | Physan 20                   | Yes                                 |
| etridiazole                                | Aaterra / Terrazole         | Yes                                 |
| Extract of <i>Reynoutria sachalinensis</i> | Regalia                     | Yes                                 |
| fenarimol                                  | Rubigan                     | <b>No (apply on 7-day interval)</b> |
| fludioxonil                                | Beret Gold / Medalion       | Yes                                 |
| fluopicolide                               | Adorn                       | Yes                                 |
| fosetyl-aluminum                           | Aliette                     | Yes                                 |
| furalaxyl                                  | Fongarid                    | Yes                                 |

| <b>Fungicides (continued)</b>  |   |                                     |
|--|---|-------------------------------------|
| <b>Active Ingredient(s)</b>  | <b>Brand Name</b>                                     | <b>Compatibility</b>                |
| halofenozide   | Mach 2  | Yes                                 |
| iprodione  | Rovral / Chipco 26019                                 | Yes                                 |
| kresoximmethyl   | Kenbyo  | Yes                                 |
| mancozeb   | Dithane   | Yes                                 |
| mefenoxam  | Subdue / Subdue Maxx / Santhal                        | Yes                                 |
| mercurous chloride   | Calo-Clor   | Yes                                 |
| neem oil   | Various   | Yes                                 |
| neem oil + Soap  | Nimbecidine   | <b>NO</b> (apply on 7-day interval) |
| oxazoidinedione  | Ornalin   | Yes                                 |
| pentachloronitrobenzene  | Terraclor   | Yes                                 |
| petroleum oil  | UltraPure Oil   | Yes                                 |
| polyoxin D Zinc salt   | Affirm, Verdanda O                                    | Yes                                 |
| prochloraz   | Octave  | Yes                                 |
| propamocarb hydrochloride  | Filex / Proplant                                      | Yes                                 |
| propiconazole  | Tilt / Bumper   | Yes                                 |
| pyraclostrobin   | Empress   | Yes                                 |
| pyraclostrobin + fluxapyroxad  | Orkestra  | Yes                                 |
| sulfur   | Various   | Yes                                 |
| tebuconazole   | Folicur / Nativo                                      | Yes                                 |
| thiophanate-methyl   | Mildothane / Fungo Flo / Banrot / Cleary's / OHP 6672 | Yes                                 |
| thiram   | Thiram  | Yes                                 |
| tolclofos-methyl   | Rizolex   | Yes                                 |
| tolyfluanide   | Eupareen M / Elvaron                                  | Yes                                 |
| triadimefon  | Bayleton  | Yes                                 |
| <i>Trichoderma harzianum</i> strain T-22                               | <b>RootShield®</b>                                    | Yes                                 |
| <i>Trichoderma harzianum</i> strain T-22, <i>T. virens</i> strain G-41 | <b>RootShield® PLUS+</b>                              | Yes                                 |
| trifloxystrobin  | Compass / Flint                                       | Yes                                 |
| trifloxystrobin + triadimefon  | Trigo   | Yes                                 |
| triflumizole   | Rocket / Terraguard / Terraguard SC                   | Yes                                 |
| triforine  | Fairy Ring Destroyer                                  | Yes                                 |
| triticonazole  | Trinity   | Yes                                 |
| vinclozolin  | Barclay Flotilla / Ronilan FL / Ornalin               | Yes                                 |

| <b>Herbicides</b>                      |                    |                      |
|--|--------------------|----------------------|
| <b>Active Ingredient</b>               | <b>Brand Name</b>  | <b>Compatibility</b> |
| 2,4,D                                  | Various            | <b>NO</b>            |
| DCPA-dimethyl tetrachloroterephthalate | Dacthal            | Yes                  |
| glufosinate                            | Challenge, Dacthal | <b>NO</b>            |
| glyphosate                             | Round-up           | <b>NO</b>            |
| isoproturon + diflufenican             | Javelin            | <b>NO</b>            |
| isoprotuton                            | Portman Isotop     | <b>NO</b>            |



| Herbicides (continued) |                    |               |
|------------------------|--------------------|---------------|
| Active Ingredient      | Brand Name         | Compatibility |
| oryzalin               | Surflan            | Yes           |
| paraquat               | Gramoxone          | <b>NO</b>     |
| pendimethalin          | Stomp              | <b>NO</b>     |
| propyzamide            | Kerb Flo           | <b>NO</b>     |
| triallate              | Avadex 480         | <b>NO</b>     |
| triclopyr              | Turflon / Confront | <b>NO</b>     |
| trifluralin            | Trigard            | <b>NO</b>     |

| Insecticides<br>IGR = Insect Growth Regulator     |                                  |                                      |
|---|----------------------------------|--------------------------------------|
| Active Ingredient                                 | Brand Name                       | Compatibility                        |
| abamectin   | Avid / Dynamec / Vertimec        | <b>NO</b> (apply on 7-day interval)  |
| acephate  | Orthene                          | Yes                                  |
| acetamiprid                                       | TriStar 8.5 SL                   | <b>NO</b> (apply on 14-day interval) |
| afidopyropen                                      | Ventigra                         | Yes                                  |
| aldicarb  | Temik 10G                        | <b>NO</b> (apply on 14-day interval) |
| alpha-cypermethrin                                | Fendona CS                       | Yes                                  |
| azadirachtin (IGR)                                | <b>Molt-X®</b>                   | Yes                                  |
| azadirachtin (IGR)                                | Azatin, NeemAzal-T/S             | Yes                                  |
| azinphosmethyl                                    | Guthion                          | <b>NO</b> (apply on 14-day interval) |
| <i>Bacillus thuringiensis</i>                     | Dipel DF                         | Yes                                  |
| <i>Beauveria bassiana</i> ATCC 74040              | Naturalis L                      | Yes                                  |
| <i>Beauveria bassiana</i> PPP5339                 | Velifer                          | Yes                                  |
| <i>Beauveria bassiana</i> strain GHA              | <b>BotaniGard® / Mycotrol®</b>   | Yes                                  |
| <i>Beauveria bassiana</i> strain GHA + pyrethrins | <b>BotaniGard® Maxx</b>          | Yes                                  |
| <i>Beauveria bassiana</i> strain GHA              | <b>BotaniGard® ES</b>            | Yes                                  |
| bendiocarb  | Turcam                           | <b>NO</b> (apply on 14-day interval) |
| bifenazate  | Floramite                        | Yes                                  |
| bifenthrin  | Talstar                          | Yes                                  |
| buprofezin (IGR)                                  | Applaud                          | <b>No</b>                            |
| <i>Burkholderia</i> spp. strain A396              | Venerate CG                      | Yes                                  |
| capsicum + garlic/soybean oils                    | Captiva                          | Yes                                  |
| carbaryl  | Thinsec / Sevin                  | <b>NO</b> (apply on 14-day interval) |
| carbofuran  | Furadan / Curater                | <b>NO</b> (apply on 14-day interval) |
| chlorfenapyr                                      | Pylon                            | <b>NO</b> (apply on 7-day interval)  |
| chlorpyrifos                                      | Duraguard / Durashield / Various | Yes                                  |
| chlorpyrifos (EC)                                 | Dursban                          | <b>NO</b>                            |
| <i>Chromobacterium subtsugae</i> PRAA4-1          | Grandevo                         | Yes                                  |
| cinnamaldehyde                                    | Cinnamate                        | <b>NO</b>                            |

| <b>Insecticides (continued)</b>       |                                     |                                      |
|---------------------------------------|-------------------------------------|--------------------------------------|
| <b>Active Ingredient</b>              | <b>Brand Name</b>                   | <b>Compatibility</b>                 |
| citric acid                           | Nuke Em                             | <b>NO</b> (apply on 7-day interval)  |
| cyantraniliprole                      | Mainspring                          | Yes                                  |
| cyflumetofen                          | Sultan, Nealta                      | Yes                                  |
| cyfluthrin                            | Decathlon / Tempo                   | Yes                                  |
| cypermethrin                          | Various                             | Yes                                  |
| cyromazine (IGR)                      | Neporex 2SG, Trigard, Citation      | Yes                                  |
| deltamethrin                          | Decis                               | Yes                                  |
| diazinon                              | Knox-out                            | Yes                                  |
| dichlorvos                            | Dichlorvos                          | Yes                                  |
| dienochlor                            | Pentac                              | Yes                                  |
| diflubenzuron (IGR)                   | Dimilin / Adept                     | <b>NO</b>                            |
| dinotefuran                           | Safari                              | Yes                                  |
| dodemorph-acetate                     | Meltatox                            | <b>NO</b>                            |
| endosulfan                            | Thiodan                             | Yes                                  |
| esfenvalerate                         | Asana                               | Yes                                  |
| ethoprop                              | Mocap                               | <b>NO</b> (apply on 14-day interval) |
| fenbutatin oxide                      | Torq                                | Yes                                  |
| fenoxycarb (IGR)                      | Insegar / Logic                     | Yes                                  |
| flonicamid                            | Aria WDG / Beleaf / Teppeki         | Yes                                  |
| flupyradifurone                       | Altus                               | <b>NO</b> (apply on 7-day interval)  |
| fluvalinate                           | Mavrik                              | Yes                                  |
| hexythiazox                           | Hexygon DF / Nissorun Liquid        | <b>NO</b>                            |
| idoxacarb                             | Steward                             | Yes                                  |
| imidacloprid                          | Admire / Intercept / Merit          | Yes                                  |
| insecticidal soap                     | Safer Soap                          | Yes                                  |
| <i>Isaria fumosorosea</i> Apopka (97) | Preferal                            | <b>NO</b>                            |
| isazophos                             | Triumph                             | <b>NO</b> (apply on 14-day interval) |
| isofenphos                            | Oftanol                             | Yes                                  |
| kinoprene (IGR)                       | Enstar                              | Yes                                  |
| lufenuron (IGR)                       | Match                               | Yes                                  |
| Malathion                             | Malathion, Cythion                  | Yes                                  |
| maltodextrin                          | Eradicoat-T                         | Yes                                  |
| methidathion                          | Supracide                           | Yes                                  |
| methomyl                              | Lannate                             | <b>NO</b> (apply on 7-day interval)  |
| methoprene (IGR)                      | Apex / Mirex / Precor               | Yes                                  |
| milbemectin                           | Ultifora / Mibleknocks              | Yes                                  |
| nicotine                              | Black Leaf 40                       | <b>No</b> (apply on 7-day interval)  |
| organic fatty acids                   | Bioshower                           | Yes                                  |
| permethrin                            | Permasect 25 EC / Pounce / Permacap | Yes                                  |

| <b>Insecticides (continued)</b> |                                       |                                      |
|---------------------------------|---------------------------------------|--------------------------------------|
| <b>Active Ingredient</b>        | <b>Brand Name</b>                     | <b>Compatibility</b>                 |
| mineral oil                     | SuffOil-X®                            | Yes                                  |
| mineral oil                     | UltraPure Oil                         | Yes                                  |
| potassium salts of fatty acids  | Kopa                                  | <b>NO</b> (apply on 7-day interval)  |
| pymetrozine                     | Plenum 25 WP / Chess / Endeavor 50 WG | Yes                                  |
| pyrethrins                      | Spruzit / Various                     | Yes                                  |
| pyrethrins + canola oil         | Pycana                                | Yes                                  |
| pyridaben                       | Aseptacarex / Dino-Mite / San-Mite    | <b>NO</b> (apply on 14-day interval) |
| pyridalyl                       | Overture                              | Yes                                  |
| pyrifluquinazon                 | Rycar SC                              | Yes                                  |
| pyriproxyfen (IGR)              | Admiral / Distance                    | <b>NO</b>                            |
| rosemary oil                    | TetraCURB                             | <b>NO</b> (apply on 7-day interval)  |
| rotenone                        | Various                               | Yes                                  |
| SB Plant Invigorator            | SB Plant Invigorator                  | Yes                                  |
| spinosad                        | Conserve SC / Success / Entrust SC    | Yes                                  |
| spiromesifen                    | Oberon / Forbid 4 F / Judo            | Yes                                  |
| spirotetramat                   | Kontos / Movento 240 SC               | Yes                                  |
| tebufenpyrad                    | Masai                                 | Yes                                  |
| teflubenzuron (IGR)             | Nemolt                                | Yes                                  |
| thiacloprid                     | Provado / Calypso 4 F                 | Yes                                  |
| thiamethoxam                    | Meridian 25 WP / Flagship             | Yes                                  |
| triazamaat                      | Aztec                                 | <b>NO</b>                            |

| <b>Nematicides</b>                       |                   |                                      |
|--|-------------------|--------------------------------------|
| <b>Active Ingredient</b>                 | <b>Brand Name</b> | <b>Compatibility</b>                 |
| heat killed <i>Burkholderia</i> sp. A396 | Majestene         | Yes                                  |
| fenamiphos                               | Nemacur           | <b>NO</b> (apply on 14-day interval) |
| oxamyl                                   | Vydate            | <b>NO</b> (apply on 14-day interval) |

| <b>Plant Growth Regulators</b> |                   |                      |
|--------------------------------|-------------------|----------------------|
| <b>Active Ingredient</b>       | <b>Brand Name</b> | <b>Compatibility</b> |
| daminozide                     | Dazide / B-Nine   | Yes                  |
| paclobutrazol                  | Bonzi / Cultar    | Yes                  |

Refer to product labels for complete application details. Always read and follow label directions. Additional technical information is available on our website ([bioworksinc.com](http://bioworksinc.com)) or from your BioWorks Solutions Advisor.