



# Greenhouse Peppers

BioWorks delivers a full line of biological solutions to control pests, prevent disease and improve plant health. For organic and conventional production, BioWorks products help you improve yield and grow the highest quality peppers.

| PEST/DEFICIENCY        | CROP STAGE                                   |                                     |                                |                                  |
|------------------------|--|-------------------------------------|--------------------------------|----------------------------------|
|                        | SEED   | SEEDLING (3-5 LEAVES)               | VEGETATIVE STAGE               | FRUIT PRODUCTION STAGE           |
| <b>DISEASES</b>        | Soilborne Diseases                           | RootShield PLUS <sup>+</sup> WP     |                                |                                  |
|                        | Powdery Mildew                               |                                     | CEASE, MilStop SP              | MilStop SP + CEASE, PERpose Plus |
|                        | Botrytis                                     |                                     |                                | MilStop SP + CEASE, BotryStop    |
|                        | White Mold                                   |                                     | CEASE                          | CEASE                            |
|                        | Fusarium Fruit Rot, Bacterial Soft Fruit Rot |                                     |                                | CEASE, PERpose Plus              |
| <b>INSECTS / MITES</b> | Aphids, Whiteflies                           |                                     | BotaniGard + Molt-X, SuffOil-X |                                  |
|                        | Thrips                                       |                                     |                                |                                  |
|                        | Lepidopterans                                | Molt-X, BotaniGard                  |                                |                                  |
|                        | Pepper Weevils                               | BotaniGard, Molt-X                  |                                |                                  |
|                        | Tarnished Plant Bugs                         |                                     |                                |                                  |
|                        | Fungus Gnats, Shore Flies                    | NemaShield, Molt-X, BotaniGard MAXX |                                |                                  |
|                        | Spider Mites, Broad Mites                    | SuffOil-X                           |                                |                                  |
|                        | Efficient nutrient use and stress reduction  | ON-Gard                             |                                |                                  |
|                        | Base fertilization or top dressing           | Verdanta EcoVita or N-Vita          |                                |                                  |
|                        | Iron (Fe) deficiency                         |                                     | Verdanta OFE                   |                                  |
| <b>NUTRITION</b>       | Potassium (K) deficiency                     |                                     |                                | Verdanta K-Vita, Verdanta PL-2   |
|                        | Calcium (Ca) deficiency                      |                                     |                                | ON-Gard CALCIUM                  |

|                 | PRODUCT                            | REI      | PHI   | PEST/DEFICIENCY   | RECOMMENDED RATE                             | TYPE OF APPLICATION  |
|-----------------|------------------------------------|----------|-------|---|--|--|
| DISEASES        | RootShield® PLUS <sup>+</sup> WP*  | 4-hour   | 0-day | Damping Off, Pythium, Fusarium, Phytophthora                      | 4-8 oz/100 gal                               | Drench at seeding and transplant; reapply at 4-6 week intervals.   |
|                 | CEASE®*                            | 4-hour   | 0-day | Powdery Mildew, Botrytis  | 4-6 qt/100 gal                               | Foliar application every 7-14 days.  |
|                 | MilStop® SP*                       | 1-hour   | 0-day |   | 1.25-5 lb/100 gal                            | Foliar application every week. Tank mix rates: CEASE 4-6 qt/100 gal + MilStop SP 1.25-3 lb/100 gal.                        |
|                 | PERpose Plus®*                     | 0-1-hour | 0-day |   | 1/3-1 fl oz/gal                              | 1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application.                                    |
|                 | BotryStop®*                        | 4-hour   | 0-day | Botrytis  | 2-4 lb/100 gal                               | Foliar application every 7-10 days.  |
|                 | PERpose Plus®*                     | 0-1-hour | 0-day | Bacterial Soft Fruit Rot  | 1/3-1 fl oz/gal                              | 1/3 fl oz/gal preventative foliar application weekly   |
| INSECTS / MITES | BotaniGard® MAXX                   | 12-hour  | 0-day | Aphids, Thrips, Lepidopterans, Tarnished Plant Bug, Pepper Weevil | 0.5-1 qt/100 gal                             | Foliar application every 5-10 days.  |
|                 | BotaniGard®/Mycotrol®†             | 4-hour   | 0-day |   | WP: 0.5-2 lb/100 gal<br>ES: 0.5-2 qt/100 gal | Foliar application every 5-10 days. For thrips use 1-2 lb or 1-2 qt/100 gal.   |
|                 | Molt-X®*                           | 4-hour   | 0-day |   | 8-10 fl oz/100 gal                           | For foliar application. In tank mix, use 1/2 rate.   |
|                 | NemaShield®                        | N/A      | N/A   | Fungus Gnats, Shore Flies   | 100-300 million/100 gal                      | Apply as a drench to the substrate as needed.  |
|                 | Molt-X®*                           | 4-hour   | 0-day |   | 8 fl oz/100 gal                              | Apply as a drench. In tank mix, use 1/2 rate.  |
|                 | BotaniGard® MAXX                   | 12-hour  | 0-day |   | 0.5-1 qt/100 gal                             | Foliar application every 7-10 days to eliminate adults.  |
|                 | SuffOil-X®*                        | 4-hour   | 0-day | Mites   | 1-2% v/v                                     | Foliar application every 7 days. Suppresses powdery mildew.  |
| NUTRITION       | ON-Gard®* (5-0-0)                  | N/A      | N/A   | Nutrition supplement and stress reduction                         | 1 qt-2 gal/100 gal                           | Weekly foliar spray: 1 qt in seedling stage to 2 gal in vegetative & fruiting stages. Fog rates: 6.4-11.2 fl oz/3 L water. |
|                 | Verdanta® EcoVita®* (7-5-10)       |          |       | Base or top-dressing fertilization                                | 10-40 lb/1000 ft <sup>2</sup>                | Incorporate in substrate at 6-9 lb/yd <sup>3</sup> ; or apply as a top dress, placing product near drip emitters.          |
|                 | Verdanta® N-Vita®* (9-4-3)         |          |       |   | 10-20 lb/1000 ft <sup>2</sup>                |  |
|                 | Verdanta® K-Vita®* (2-0-20)        |          |       | Potassium (K) deficiency  | 10-16 lb/1000 ft <sup>2</sup>                | Optional top dress every 6-8 weeks.  |
|                 | Verdanta® PL-2®* (2-0-6)           |          |       |   | 30-40 fl oz/100 gal                          | Apply 2 times weekly as a K supplement with low salt index.  |
|                 | ON-Gard® CALCIUM®* (1-0-0 + 5% Ca) |          |       | Calcium (Ca) deficiency   | 8-16 fl oz/100 gal                           | Weekly foliar spray: 8 fl oz in seedling stage to 16 fl oz in vegetative & fruiting stages.                                |
|                 | Verdanta® OFE (3-0-0 + 3% Fe)      |          |       | Iron (Fe) deficiency  | 1 qt/100 gal                                 | Foliar application as needed.  |

Please refer to product labels for complete application instructions. Always read and follow label directions.



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