

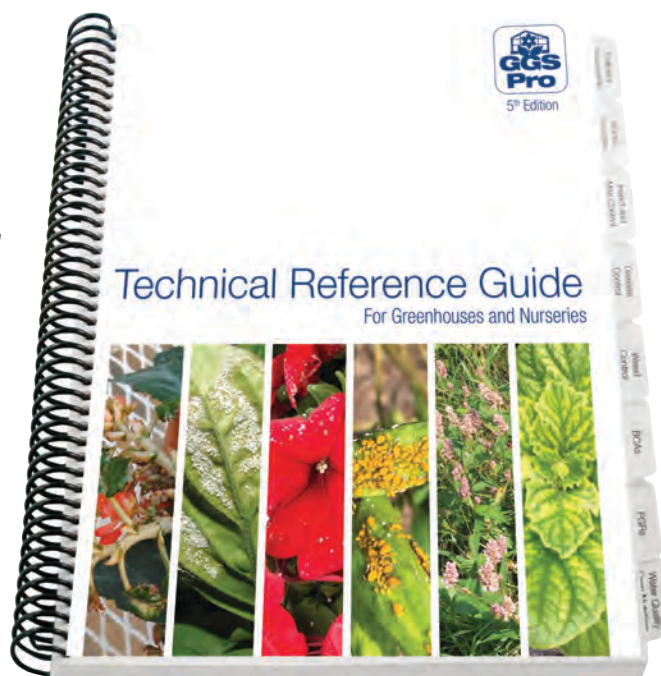


CROP PROTECTION AND SANITATION



GGSPRO TECHNICAL REFERENCE GUIDE 5TH EDITION

2021



The GGSPRO Reference Guide is packed full of color pictures, detailed product information as well as easy to use charts and tables. These charts provide Mode of Action, Active Ingredient, REI, Application Rates and Measurement Conversion Tables.

The 5th edition of the Reference Guide includes:

- New! Lighting chapter- supplemental and photoperiodic lighting
- New! Scouting chapter- detailed information on how to identify and track insects, mites and diseases
- The latest GGSPRO product recommendations with updated rates and other important information is included throughout the guide.

The GGSPRO Reference Guide has heavy-duty water-resistant pages allowing growers to keep it where it is needed the most. Use it inside the greenhouse or outside in the field. It is a great resource for all employees from IPM scouts to those responsible for fertilizer and pest control decisions.

Item: 98-405

Visit www.griffins.com/ggspro for more information.



IMPORTANT CHEMICAL USAGE INFORMATION

Labels & Registration

Pesticide information in this catalog is believed to be correct but it is the responsibility of the applicator to read and follow all label directions!!! Labels do change without notice, including state registrations and restricted use status. Regulations for application to cannabis vary by state. Final responsibility for compliance rests with the applicator.

Storage

Your storage areas should be clean, well-ventilated and maintained at temperatures between 45° - 90°F. The floor should be covered with a non-absorbent material. All pesticides should be stored in their original containers. Pesticides have shelf lives and should be marked with the date of purchase. Unsafe pesticide storage can lead to serious accidents. Be sure the storage area can be locked and is clearly marked with appropriate pesticide storage signage.

Griffin's Pesticide Permit Policy

Chemicals that have been designated by law as restricted use pesticides require Griffin to only sell to growers that have a current/valid Pesticide Applicators Permit. We are required to record your license to use these products and report that information on demand. No restricted products can or will be allowed out of our warehouse until that copy is on file.

Chemical Shipping

- No chemicals will be left without a customer's signature.** If there isn't anybody there at time of delivery, the chemical materials will NOT be delivered.
- Transportation during extremely cold weather is not possible for many of our liquid chemicals.
- There are certain chemicals that cannot be shipped via commercial carrier, (or there is an upcharge for handling) due to hazardous chemical shipping laws. Please plan ahead for our truck delivery.
- MSDS/SDS - Material Safety Data Sheets for all the different pesticides we carry may often be obtained directly from the manufacturer's website or from our Customer Service Dept.

Restricted-Entry Interval (REI)

All EPA registered pesticides have a REI assigned to them. This is expressed in either hours or days and is included in the descriptions of all pesticides in the Griffin catalog except those labeled for retail purposes. Growers must abide by all re-entry restrictions and personal protection equipment (PPE) requirements as listed on the label for the duration of the REI.

Mode of Action Groups (MOA's)

The mechanism by which a pesticide controls a pest is known as its mode of action. In order to rotate pesticides to reduce the chance of resistance it is necessary to use pesticides that utilize different modes of action. Descriptions of insecticides, fungicides and herbicides in the Griffin catalog include the industry accepted mode of action group. Griffin's GGSPRO technical team is available to help create responsible pesticide rotation programs.

2021

LOOK FOR THIS SYMBOL FOR:
TOTAL + TIMED RELEASE



Chemicals with this icon are aerosol cans

Nationwide Poison Control Center
800-222-1222

CHEMICAL CONVERSION TABLE

Equivalent quantities of liquid materials (Emulsion concentrates, etc.) for various quantities of water based on volume per 100 gal

American Fluid Measure

80 drops = 1 teaspoon (tsp)
3 teaspoons = 1 tablespoon (Tbts)
2 tablespoons = 1 fluid ounce (fl oz)
8 fluid ounces = 1 cup
2 cups = 1 pint (pt)
2 pints = 1 quart (qt)
4 quarts = 1 gallon (gal)

American Dry Measure

3 tsp = 1 Tbts
16 Tbts = 1 cup
28 gm = 1 oz
454 gm = 1 lb

Water	Liquid Chemicals, Smaller Volume Conversions					
100 gal	2 oz	4oz	8 fl oz	16 fl oz	1 qt	2 qt
25 gal	1 Tbts	1 oz	2 fl oz	4 fl oz	8 fl oz	1 pt
5 gal	0.6 tsp	1.25 tsp	2.5 tsp	5 tsp	1.66 fl oz	3.33 fl oz
1 gal	0.12 tsp	0.25 tsp	0.5 tsp	1 tsp	2 tsp	4 tsp

Understanding the GGSPro Bee Safety Codes



Responsible applicators consider bee safety when making their product choices. GGSPro is well versed in managing chemical use for minimizing impacts to biological control agents (BCAs) and now extends this knowledge to bees that can come in contact with pesticides both in greenhouses and outdoors. Our Bee Safety Codes will help you quickly determine which pesticide choices are most appropriate for your specific situation. From there, the GGSPro team can further help you narrow the options and develop strategies that will help you control your pests while minimizing risks to area bee populations.

The GGSPro Bee Safety Codes summarize existing EPA bee caution label content into a simple icon system in which a color and a number provide information on both toxicity and exposure routes. Please note that some application methods (ex. granular) and some product classes (ex. fungicides, surfactants) are not currently subject to bee hazard evaluation by the EPA. Therefore, the lack of a Bee Safety Code should not be considered an indication of complete lack of risk. The GGSPro team is available to discuss your specific concerns. Bee Safety Codes indicate the need to plan pesticide applications carefully to minimize the risk to bees. Products toxic to bees might still be part of a pest control program if the proper precautions are taken. It's all about wise and effective use of pesticides, and GGSPro is here to help you, every step of the way.

All Bee Safety information presented by Griffin Greenhouse Supplies is intended to serve as a reference for growers. It does not replace the need to read and follow the directions on entire pesticide labels or supersede any applicable law, rule, regulation or standard. While every effort has been made to ensure its accuracy, human error is possible and labels do change without notice. Pesticides other than those listed may be safe, legal and effective.

EXPOSURE KEY

1 Toxicity risk through direct exposure only:

avoid treatment when bees are actively visiting or actively foraging in the treatment area. Actively visiting the treatment area refers to bees you see on the plants and pertains to products that do not show residual effect. Bees are protected when bees are absent during treatment.*



Highly Toxic

EPA describes as very highly toxic, highly toxic or very toxic to bees

2 Toxicity risk through residual exposure only:

avoid treatment when bees are visiting the treatment area. Visiting the treatment area refers to bees that may visit the plants after treatment. Bees are protected when bees are absent from the area following treatment. Avoid use of these products when crops and/or weeds are in bloom.*



Toxic

EPA describes as toxic to bees

3 Toxicity risk through both direct exposure and residual exposure:

avoid treatment when bees are visiting the treatment area. Visiting the treatment area refers to bees that may visit the plants after treatment. Bees are protected when bees are absent from the treatment area both during and following treatment. Avoid use of these products when crops and/or weeds are in bloom.*



Special case

Special use notes per label; contact GGSPro for more information.

THE NEW EPA BEE ADVISORY BOX
On EPA's new and strengthened pesticide label to protect pollinators

PROTECTION OF POLLINATORS

APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators. Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar. Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat.
- Minimize drift of this product onto beehives can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: <http://pesticideenvironmentalstewardship.org/pollinatorprotection/Pages/default.aspx>

Pesticide incidents (for example, bee kills) should immediately be reported to the state/local lead agency. For contact information for your state/region, go to: www.epa.gov. Pesticide incidents can also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: bee@epa.gov

Alerts users to separate restrictions on the label. These prohibit certain pesticide use when bees are present.

The new bee icon helps signal the pesticide's potential hazard to bees.

Makes clear that pesticide products can kill bees and pollinators.

Bees are often present and foraging when plants and trees flower. EPA's new label makes it clear that pesticides cannot be applied until all petals have fallen.

Warns users that direct contact and ingestion could harm pollinators. EPA is working with beekeepers, growers, pesticide companies, and others to advance pesticide management practices.

Highlights the importance of avoiding drift. Sometimes, wind can cause pesticides to drift to new areas and can cause bee kills.

The science says that there are many causes for a decline in pollinator health, including pesticide exposure. EPA's new label will help protect pollinators.

EPA

Read EPA's new and strengthened label requirements: <http://go.usa.gov/jHH4>

Fungicides

As of April 2021, marijuana (cannabis) remains a Schedule 1 drug at the federal level. This means that no EPA product labels include cannabis as marijuana. States that allow cannabis production regulate chemistry use within their state. For these reasons, we do not list cannabis as a labeled crop in our descriptions for any EPA registered products even if a specific state does not prohibit its use. GGSPRO can help guide product selection for legal production of cannabis. The applicator holds all responsibility to follow state, local and federal regulations.

Actinovate SP

MOA
BM02 | REI
1**Active Ingredient: Streptomyces lydicus WYEC 108**

Bacteria based fungicide. As a soil drench it protects plants from diseases such as: *Pythium*, *Phytophthora*, *Rhizoctonia*, and *Fusarium*. As a foliar spray it suppresses diseases such as *Alternaria*, *Botrytis* and powdery mildew. Labeled for crops in greenhouses, interiorscapes and outdoor nurseries. **Foliar spray rates:** 1/2-1 tsp per gal or 6-12 oz per 100 gal. **Drench rate:** 4-6 oz per 100 gal.

OMRI listed.

Item: 71-1118

Size: 18 oz.

Item - CA Only: 31007318*

Size: 18 oz.

* 12 each minimum order - case only. Material has 6 month expiration date.

Adorn SC

MOA
43 | REI
12**Active Ingredient: Fluopicolide**

Foliar spray or drench to control downy mildew (spray only), *Pythium* and *Phytophthora* on ornamentals in greenhouses and nurseries. Adorn has a supplemental label allowing for use on greenhouse basil except for CA. **Foliar spray rates:** 1/8-1/4 tsp per gal or 2-4 fl oz per 100 gal. **Drench rates:** 1/8-1/2 tsp per 2 gal or 1-4 fl oz per 100 gal. The label requires that another fungicide labeled for the same disease be tank mixed with Adorn for all applications. **Restricted use pesticide in NY.**

Item: 71-1130

Size: 1 qt.

Affirm WDG

MOA
19 | REI
4**Active Ingredient: Polyoxin D zinc salt**

Broad-spectrum fungicide for use on many edible crops in greenhouses, nurseries, interiorscapes and other labeled sites. Foliar spray control *Alternaria*, *Botrytis*, *Colletotrichum*, powdery mildew and others. Drench treatments control *Rhizoctonia* and *Thielaviopsis*. Chemigation instructions have been added to the label. **Foliar spray and drench rates:** 1/2-1 tsp per gal or 4-8 oz per 100 gal.

Item: 71-1131

Size: 2.4 lb.

Agri-Mycin 50

MOA
25 | REI
12**Active Ingredient: Streptomycin Sulfate**

Bactericide used preventively against bacterial leaf spots, blights and wilts. Labeled for certain edible crops. **Foliar spray rates:** 1-2 tsp per gal or 2.66-5.33 oz per 100 gal.

Item: 71-1133

Size: 3 lb.

Badge SC

MOA
M01 | REI
24-48**Active Ingredient: Copper Oxychloride & Copper Hydroxide**

Dual copper-based active ingredients used to control a wide variety of bacterial and fungal pathogens. Approved for use on fruiting crops, vegetables, and herbs. Foliar applications on plants grown in greenhouses, shadehouses, outdoor nurseries, landscapes, and field production settings. Rates vary widely by crop, check the label for rates. **Foliar spray rates:** 1.5-2 tsp per gal or 24-32 fl oz per 100 gal. Restricted Entry Interval is 24 hours for greenhouse uses and 48 hours for all other applications.

Item: 71-1205

Size: 2.5 gal.

BotryStop

MOA
NC | REI
4**Active Ingredient: Ulocladium oudemansii (U3 Strain)**

BotryStop is a WDG formulation fungicide based on a saprophytic fungus for the control of *Botrytis* and *Sclerotinia* spp. Foliar sprays can be applied on many edible crops in greenhouses, high tunnels, fields, and nurseries, including certain vegetables, berries and tree fruits. Excellent plant safety but leaves some visible residue. **Foliar spray rates:** 3 Tbls per gal or 3 lb per 100 gal. Requires constant agitation during application. Check Bioworks website for fungicide compatibility information. Shelf Life: 12 months refrigerated (below 40° but do not freeze), 7 days at room temperature. 0 day PHI, **OMRI listed.**

Item: 71-1255

Size: 6 lb

Item: 71-1260

Size: 12 lb

Camelot O

MOA
M1 | REI
4**Active Ingredient: Copper Octanoate**

Copper based fungicide/bactericide. Controls anthracnose, *Alternaria*, *Cylindrocladium*, powdery mildew, certain bacterial leaf spots and more. Labeled for use under field conditions, greenhouses, nurseries, interiorscapes and landscapes. Many edible crops on the label. **Foliar spray rates:** 4 tsp-2 fl oz per gal or 0.5-2 gal per 100 gal. **OMRI listed.**

Item: 70-21202

Size: 1 gal.

Carb-O-Nator


MOA
NC
REI
4

Active Ingredient: Potassium bicarbonate

Contact, curative action against foliar fungal diseases. Effective against *Botrytis*, powdery mildew and more. Labeled for use in greenhouses, nurseries and agricultural fields. Hemp and many food crops listed on the label, including berries, herbs, lettuce, peppers and tomatoes. Foliar spray rates: 2.5-5 lb per 100 gal. O day PHI.

Item: 71-1315 **Size:** 5 lb.

Cease



BioWorks

MOA
BM02
REI
4

Active Ingredient: *Bacillus subtilis* QST 713 strain

Mycofungicide that provides preventative control of certain fungal and bacterial diseases such as *Alternaria*, *Botrytis*, downy mildew, powdery mildew and bacterial diseases including *Erwinia*, *Pseudomonas* and *Xanthomonas*. Cease is labeled for use on several vegetable crops in greenhouses, fields and nurseries. **Foliar spray rates:** range from 1.25-2.5 fl oz per gal or 1-2 gal per 100 gal. Cease can be used as a soil drench to suppress root rots such as *Fusarium*, *Pythium*, *Phytophthora* and *Rhizoctonia*. **Drench rates:** 32-128 fl oz per 100 gal. **OMRI listed.**

Item: 71-13301 **Size:** 1 gal.

Item: 71-1335 **Size:** 2.5 gal.

3336 EG


MOA
1
REI
12

Active Ingredient: Thiophanate-Methyl

Extruded granule (EG) formulation of locally systemic fungicide for use on certain vegetable transplants in greenhouses, landscapes, interiorscapes, and outdoor nurseries. Labeled for foliar sprays, dips, and drench applications. Controls *anthracnose*, *Cylindrocladium*, *Rhizoctonia*, *Sclerotinia Thielaviopsis*, and others. **Foliar spray rates:** 2/3-2 tsp per gal or 8-24 fl oz per 100 gal. **Drench rates:** 8-16 fl oz per 100 gal. **Restricted use pesticide in NY.**

Item: 71-2550 **Size:** 5 lb.

Companion WP



New

MOA
BM02
REI
4

Active Ingredient: *Bacillus amyloliquefaciens* strain ENV503

Preventative fungicide that can be applied as a foliar spray or a soil drench. Diseases prevented include but are not limited to: *Alternaria*, *Botrytis*, *Colletotrichum*, *Erwinia*, *Fusarium*, *Phytophthora*, powdery mildew, *Pseudomonas*, *Pythium*, *Rhizoctonia* and *Xanthomonas*. Labeled for use on edible crops in field, greenhouse, nursery and shadehouse applications. **Foliar spray and drench rates:** 1-1.5 tsp per gal or 0.5-1.5 lb per 100 gal. **OMRI listed**

Item: 71-1372A2 **Size:** 5 lb.

Item: 71-1375A2 **Size:** 20 lb.

Decree 50 WDG


MOA
17
REI
12

Active Ingredient: Fenhexamid

Decree provides long residual control of *Botrytis* with minimal visible residue and excellent plant and bloom safety. Several edible crops are on the label. Labeled for grown to harvest greenhouse tomato, pepper, cucumbers and leafy greens. **Foliar spray rates:** 1-2 tsp per gal or 0.75-1.5 lb per 100 gal.

Item: 71-1440 **Size:** 2.5 lb.

EcoSwing


MOA
BM01
REI
4

Active Ingredient: Extract of *Swinglea glutinosa*

EcoSwing is a foliar fungicide based on a botanical extract from *Swinglea glutinosa*. EcoSwing is primarily a preventative fungicide with some curative activity for the control of *Alternaria*, basil downy mildew, *Botrytis*, powdery mildew and others. It can be used on food crops in greenhouses, nurseries and landscapes. Best results are achieved by using it as part of a regular program at 7-14 day intervals. **Foliar spray rates:** 1.5-2 tsp per gal, or 24-32 fl oz per 100 gal. EcoSwing leaves no visible residue and is compatible with BCAs. 0 day PHI and **OMRI listed.**

Item: 71-1455 **Size:** 1 qt.

Fosphite EC


MOA
P07
REI
4

Active Ingredient: Mono & Di-Potassium Salts of Phosphorous Acid

Broad spectrum, systemic fungicide for control of downy mildew, *Pythium*, *Phytophthora* and many other diseases in greenhouse and nursery outdoor crops. Many edible crops are on the label. Stimulates natural plant defenses. Do not apply within 20 days of a copper application. **Foliar spray rates:** 2-4 tsp per gal or 32-64 fl oz per 100 gal. **Drench rates:** 1/2-3/4 tsp per gal or 6-12 fl oz per 100 gal.

Item: 71-1522 **Size:** 2.5 gal.

GGSPRO TIP

FOSPHITE AND PHOSTROL FUNGICIDE

True systemic fungicides are rare, meaning they travel up and down in a plant's vascular system if applied as a drench or foliar spray. Especially effective against downy mildew and *Phytophthora*.





Active Ingredient: Copper Octanoate

Copper based fungicide/bactericide. Controls: anthracnose, *Alternaria*, *Cylindrocladium*, powdery mildew, certain bacterial leaf spots and more. Labeled for herbs and vegetable crops in greenhouses and shadehouses. **Foliar spray rates:** 4 tsp-2 fl oz per gal or 0.5-2 gal per 100 gal. **OMRI listed.**

Item: 71-2030 Size: 1 lb.



Active Ingredient: Azoxystrobin

A broad-spectrum, contact and xylem-mobile systemic strobiluron fungicide, labeled for use as a foliar spray or drench on many vegetable and herb transplants in greenhouses. It controls many diseases including *Alternaria*, *Botrytis*, *Cercospora*, downy mildew, powdery mildew, *Rhizoctonia*, and scab. **Foliar spray rates:** 1 tsp per 2.5-5 gal or 1-4 oz per gal 100 gal. **Drench rate:** 1 oz per 100 gal. Do not use with a organo-silicone surfactant such as CapSil. Do not use through low volume equipment. **Restricted use pesticide in VT.**

Item: 71-1400 Size: 1 lb.
Item: 71-1405 Size: 6 lb.



Active Ingredient: Copper hydroxide

Broad spectrum fungicide/bactericide in a dry flowable formulation for use on many vegetable and fruit crops. Foliar sprays control many fungal diseases including: *Alternaria*, Anthracnose, *Botrytis*, *Cercospora*, downy mildew, powdery mildew, and others along with bacterial leaf spots caused by *Pseudomonas* and *Xanthomonas*. **Foliar spray rates:** ½-2 tsp per gal or 0.5-2 lb per 100 gal. **OMRI listed.**

Item: 71-2050 Size: 2.5 lb.



Active Ingredient: Mandipropamid

Contact and translaminar systemic fungicide for use in greenhouses, shade structures, lath houses and nurseries. Foliar sprays control downy mildew and aerial *Phytophthora*. Drench applications control *Phytophthora* on roots and crowns. Labeled for use on many vegetable transplants, including control of late blight of tomato and downy mildew in basil. **Foliar spray and drench rates:** ¼-½ tsp per gal or 4-8 fl oz per 100 gal. Drench volumes per the label.

Item: 71-1655 Size: 1 qt.

Mildew Cure



Active Ingredient: Cottonseed Oil, Clove Oil, Garlic Oil

Foliar spray for the control of powdery mildew on many edible crops. Active ingredients are essential oils and this product is a 25b product (no EPA registration required). **Foliar spray rates:** 1.25 fl oz per gal or 1 gal per 100 gal. **OMRI listed.**

Item: 16-11004 Size/qty: 1 gal. - 4 per cs.
Item: 16-11005 Size/qty: 2.5 gal. - 2 per cs.



Active Ingredient: Potassium bicarbonate

Fast acting broad-spectrum foliar fungicide. Especially effective as a quick knockdown of powdery mildew. Controls *Alternaria*, anthracnose, black spot, *Botrytis*, powdery mildew and others on hemp and certain edible crops. **Foliar spray rates:** 1-2 Tbls per gal or 2.5-5 lb per 100 gal. **OMRI listed.**

Item: 71-2878 Size: 5 lb.
Item - CA Only: 71-2879B-CA Size: 5 lb.
Item: 71-2880 Size: 25 lb.



Active Ingredient: Azoxystrobin and Solatenol

Combining two active ingredients, this broad-spectrum, translaminar systemic fungicide is labeled for use on some edible crop transplants in greenhouses, shade and lath houses, outdoor nurseries and field. Labeled for both protective and curative treatments for foliar including *Alternaria*, *Botrytis*, *Cercospora*, *Colletotrichum*, downy mildew, powdery mildew, rust and many more. Root diseases include *Fusarium*, *Phytophthora*, *Rhizoctonia*, *Sclerotium*, *Sclerotinia* and *Thielaviopsis*. Do not use with a organo-silicone surfactant such as CapSil. **Foliar spray rates:** 1/4-1/2 tsp per gal or 4-7 oz per 100 gal. **Drench rates:** 2-3 oz per 100 gal. **Restricted use pesticide in NY.**

Item: 71-1690 Size: 1 lb.



Active Ingredient: Cuprous Oxide

Broad-spectrum copper fungicide/bactericide labeled for use on field grown, tree fruits, grapes, small fruits and vegetables. Nursery and greenhouse crops include certain vegetables. Labeled for foliar diseases such as *Alternaria*, anthracnose, *Cercospora*, black spot, downy mildew, powdery mildew, and many bacterial leaf spots. **Foliar sprays rates:** ⅓ tsp per gal or 10.66 oz per 100 gal. **OMRI listed.**

Item: 71-1700 Size: 12.5 lb.

Obtego

MOA
BM01 | REI
4**Active Ingredient:** *Trichoderma asperellum* and *Trichoderma gamsii*

Biofungicide used to protect plants against soil-borne diseases. Obtego has shown to be active against *Pythium* spp., *Rhizoctonia* spp., *Phytophthora* spp., *Fusarium* spp., *Verticillium* spp. and several other soil pathogens. Labeled for edible crops. Used in greenhouses, nurseries and landscape settings. Shelf life is 15 months at room temperature if unopened. No refrigeration required. **Rates:** Drench 2.5-7.5 oz per 100 gal, dip, chemigation, media incorporation or broadcast. **OMRI listed.**

Item: 71-2100 **Size:** 1 lb.**Item:** 71-2105 **Size:** 5 lb.

OxiPhos

MOA
P07/NC | REI
4**Active Ingredient:** Mono and Di-potassium Salts of Phosphorus Acid and Hydrogen Peroxide

Broad spectrum fungicide/bactericide in a liquid formulation that can be applied by foliar spray, drench, trunk spray, root dip or trunk injection depending on the crop. Many edible crops can be treated. Labeled diseases include: bacterial canker, leaf spot and soft rot, downy mildew, powdery mildew, *Phytophthora* and more. 0 hr REI for drench applications if label conditions are met. **Foliar spray rates:** 2.5 tsp-1.25 fl oz per gal or 41.6-128 fl oz per 100 gal. **Drench rates:** 3/4 – 1.5 tsp per gal or 12.8-25.6 fl oz per 100 gal.

Item: 71-2350 **Size:** 2.5 gal.**Item - CA only:** 71-2350-CA **Size:** 2.5 gal

Pageant Intrinsic WG

MOA
7/11 | REI
12**Active Ingredient:** Boscalid and Pyraclostrobin

Broad spectrum fungicide combining two active ingredients for foliar and root diseases in greenhouse grown tomatoes. Supplemental labels allow for the treatment of many vegetable crops as transplants and grown on to harvest. Foliar diseases include *Alternaria*, *Botrytis*, *Cercospora*, *Colletotrichum*, downy mildew, aerial *Phytophthora*, powdery mildew, rust and scab. Root and crown rots include *Cylindrocladium*, *Fusarium*, *Pythium*, *Rhizoctonia*, and *Sclerotinia*. Plant health benefits include increased cold, heat and drought tolerance. Do not use with organo-silicon surfactants such as CapSil. **Foliar spray rates:** 1/2–1 1/2 tsp per gal or 6-18 oz per 100 gal. **Drench rates:** 1-1 1/2 tsp per gal or 12-18 oz per 100 gal. **Restricted use Pesticide in NY.**

Item: 71-26801 **Size:** 1 lb.**Item:** 71-26821 **Size:** 12 lb.

PERpose Plus



BioWorks

New

MOA
NC | REI
0/1**Active Ingredient:** Hydrogen Peroxide

Algaecide/fungicide for use on edible crops in commercial greenhouses, garden centers, landscapes, agricultural crops, nurseries and interiorscapes to control a wide variety of plant diseases. It can be applied to plants as a dip, drench, fog or spray. Low rates are preventative, high rates are for curative applications. **Foliar spray rates:** 0.25-1 fl oz per gal or 25-100 fl oz per 100 gal. **Drench rates:** 1 fl oz per gal or 100 fl oz per 100 gal. PERpose Plus is also labeled for use on hard surfaces such as benches, floors, irrigation lines, tanks, walls and similar sites. Rates for hard surfaces vary widely, please consult the label. **OMRI listed.**

Item: 71-2690 **Size:** 5 gal.**Item:** 71-2693 **Size:** 30 gal.**Item:** 71-2695 **Size:** 55 gal.

Procidic 2

MOA
NC | REI
0**Active ingredient:** Citric acid

25b product for preventative control of powdery mildew and both preventative/curative control of *Botrytis*. Recommended for greenhouse and field crops, including hemp and cannabis. Foliar spray rates: 0.5-3.5 fl oz/gal. 0 day PHI.

Item: 71-2742**Item:** 71-2744

Protect DF

MOA
M03 | REI
24**Active Ingredient:** Mancozeb

Controls leaf spot, *Botrytis*, anthracnose, rust, and black spot. Tank mix with copper products for even greater control of bacterial diseases. Labeled for certain vegetable transplants. **Foliar spray rates:** 1 Tbls per gal or 1.5 lb per 100 gal.

Item: 71-2748 **Size:** 6 lb.

Phostrol

MOA | REI
P07 | 4

Active Ingredient: Mono & dibasic sodium, potassium & ammonium phosphites

Phostrol is a true systemic fungicide labeled for the prevention of *Pythium*, *Phytophthora* and downy mildew and others. Labeled for many edible crops in greenhouses, field production, commercial and landscapes. Methods of application vary by crop including foliar sprays, soil drenches, soil incorporation and dipping. Phostrol works by stimulating the natural defenses of plants. Do not apply within 20 days of a copper application. **Foliar spray rates:** 1½-4 tsp per gal or 26-64 fl oz per 100 gal. **Drench rates:** 5-10 fl oz per 100 gal.

Item: 71-2725 **Size:** 2.5 gal.

GGSPRO TIP REGALIA CG FUNGICIDE

On top of disease prevention, this biofungicide has demonstrated additional plant benefits such as growth stimulation as well as increased root initiation and development.

FUNGICIDES

Phyton 35

MOA | REI
M01 | 48

Active Ingredient: Copper Sulfate Pentahydrate

Translaminar systemic copper bactericide and fungicide. Preventative and curative activity against major diseases such as *Alternaria*, *Botrytis*, powdery mildew, *Phytophthora*, *Erwinia*, *Pseudomonas* and *Xanthomonas*. Labeled for use on many edible crops in greenhouses and nurseries. Apply as a spray or drench. See label cautions about interactions with phosphonate fungicides. **Foliar spray rates:** ¾-3 tsp per gal or 13-50 fl oz per 100 gal. **Drench rates:** 13-35 fl oz per 100 gal.

Item: 71-2732 **Size:** 1 ltr.
Item: 71-2737 **Size:** 1 gal.

Regalia CG

MOA | REI
P05 | 4

2021

Active Ingredient: *Reynoutria sachalinensis*

A botanical fungicide labeled for use on hemp and many edibles in greenhouses, shade-houses, outdoor nurseries and landscape plantings. Utilizing Induced Systemic Resistance, Regalia CG contributes to helping plants defend themselves. Protects against foliar diseases, like *Alternaria*, *Colletotrichum*, *Botrytis*, *Cercospora*, downy mildew, *Myrothecium*, powdery mildew, rust and *Septoria*. Bacterial disease protection against *Erwinia*, *Pseudomonas* and *Xanthomonas*. Root and crown diseases include *Fusarium*, *Phytophthora*, *Pythium* and *Rhizoctonia*. **Foliar spray rates:** 0.64-1.28 fl oz per gal or 64-128 oz per 100 gal. **Drench rates:** 0.64-1.28 fl oz per gal or 64-128 oz per 100 gal. **OMRI listed.**

Item: 70-2841 **Size:** 1 qt.
Item: 70-2844 **Size:** 1 gal.
Item: 70-2845 **Size:** 2.5 gal.

Ranman 400 SC

MOA | REI
21 | 12

Active Ingredient: Cyazofamid

Label permits drench applications to greenhouse tomato transplants and bell peppers grown to harvest only for *Phytophthora*, and foliar sprays for downy mildew and aerial *Phytophthora* on herbs or cucurbit vegetables grown to harvest in a greenhouse. See label for crop specific rates. **Foliar spray rates:** ½ tsp per 3-4 gal or 2.1-2.75 fl oz per 100 gal. **Drench rates:** ½ tsp per 2.5 gal or 3 fl oz 100 gal.

Item: 71-27651 **Size:** 1 qt.

RootShield Granules

MOA | REI
BM02 | 0

Active Ingredient: *Trichoderma harzianum* Rifai strain T-22

Biological fungicide. Protects plants from root diseases caused by *Pythium*, *Fusarium*, *Rhizoctonia*. Apply as preventive granular incorporation into soil mix before potting or seeding. **Incorporation rates:** 1-1.5 lb per cu yd of soil. **OMRI listed.**

Item: 71-2780 **Size:** 10 lb.
Item: 71-2781 **Size:** 40 lb.
Item: 71-2783 **Size:** 500 lb.
Item: 71-2785 **Size:** 1,000 lb.

RootShield Plus BioWorks

MOA
BM02 | REI
0

Active Ingredient: *Trichoderma harzianum* Rifai strain T-22 and *Trichoderma virens* strain G-41

Naturally occurring fungus that grows along with the roots to protect plants from root and crown diseases such as *Cylindrocladium*, *Fusarium*, *Phytophthora*, *Pythium* and *Rhizoctonia*. Labeled for many edible crops in greenhouses and nurseries. **Incorporation rates:** 1-3 lb per cu yd of soil mix. **OMRI listed.**

Item: 71-27911 **Size:** 10 lb.
Item: 71-27921 **Size:** 40 lb.
Item: 71-27931 **Size:** 500 lb.
Item: 71-27941 **Size:** 1,000 lb.

RootShield WP BioWorks

MOA
BM02 | REI
0

Active Ingredient: *Trichoderma harzianum* Rifai strain T-22

Fully compatible with injectors and drip irrigation systems. Biological fungicide for use as a soil drench on many edible crops. Proliferates in the root zone to protect plants from pathogens such as: *Pythium*, *Rhizoctonia* and *Fusarium*. Must be used prior to disease onset.

Drench rates: Soil drench at $\frac{1}{2}$ - $\frac{3}{4}$ tsp per gal or 3-5 oz per 100 gal. **OMRI listed.**

Item: 71-2789 **Size:** 1 lb.
Item: 71-27901 **Size:** 3 lb.
Item: 71-27903 **Size:** 30 lb.

RootShield Plus WP BioWorks

MOA
BM03 | REI
4

Active Ingredient: *Trichoderma harzianum* Rifai strain T-22 & *Trichoderma virens* strain G-41

Naturally occurring fungus that grows along with the roots to protect plants from root and crown diseases such as *Cylindrocladium*, *Fusarium*, *Phytophthora*, *Pythium* and *Rhizoctonia*. Improved formulation is fully compatible with injectors and drip irrigation systems. Labeled for many edible crops in greenhouses and nurseries. Approved for hydroponic applications. **Drench rates:** $\frac{1}{2}$ -1 tsp per gal or 3-8 oz per 100 gal. **OMRI listed.**

Item: 71-27951 **Size:** 1 lb.
Item: 71-27961 **Size:** 3 lb.
Item: 71-27971 **Size:** 30 lb.



GGSPRO TIP SEGOVIS FUNGICIDE

Downy mildew control for basil transplants have been added to the label. Segovis continues to show industry leading length of control for downy mildew.

Segovis

MOA
49 | REI
4

Active Ingredient: Oxathiapiprolin

Liquid formulation controls downy mildew and *Phytophthora* by spray or drench. For use on basil transplants. Longer residual activity at higher rates. **Foliar spray rates:** $\frac{1}{8}$ to $\frac{1}{2}$ tsp per 3.5 gal or 0.6 to 2.4 fl oz per 100 gal. **Drench rates:** $\frac{1}{8}$ to 1 tsp per 5 gal or 0.65 to 3.2 fl oz per 100 gal.

Item: 71-3100 **Size:** 1 pt.

Segway O

MOA
21 | REI
12

Active Ingredient: Cyazofamid

Foliar spray or drench to control downy mildew (spray only), *Pythium* and *Phytophthora* in greenhouses, nurseries, and landscapes. Herbs, tomatoes and peppers added to the label, see label for details. **Foliar spray rates:** $\frac{3}{8}$ - $\frac{5}{8}$ tsp per 3 gal or 2.1-3.5 fl oz per 100 gal. **Drench rates:** $\frac{1}{4}$ -1 tsp per 3 gal or 1.5-6 fl oz per 100 gal depending on the disease. **Restricted use pesticide in NY.**

Item: 71-31102 **Size:** 16 oz.
Item: 71-31113 **Size:** 64 oz.

Sil-Matrix

MOA
UN 4**Active Ingredient: Potassium silicate**

Sil-Matrix is an aqueous liquid concentrate. This versatile product applied as a foliar spray for control of certain insects, mites and foliar diseases. For use on hemp, many edible crops including certain vegetables, berries, vines and fruit trees. Controls aphids, spider mites, whiteflies, *Botrytis*, and powdery mildew. Flower caution on label. **Foliar spray rates:** 2 tsp-1.25 fl oz per gal or 32-128 oz per 100 gal. **OMRI listed.**

Item: 71-2940 **Size:** 2.5 gal.

Stargus



New

MOA
BM02 REI
4**Active Ingredient: *Bacillus amyloliquefaciens* strain F727**

Broad-spectrum biofungicide/bactericide for control or suppression of fungal and bacterial plant diseases. Applications can be made by spray, dip or drench on many edible crops in greenhouses, shadehouses, outdoor nurseries, retail nurseries, and other landscape areas. Diseases controlled include: *Alternaria*, *Botrytis*, *Cercospora*, *Colletotrichum*, downy mildew, *Pythium*, *Phytophthora*, powdery mildew, *Rhizoctonia*, *Sclerotinia*, *Xanthomonas* and more. **Foliar spray rates:** 2 tsp- 1.25 fl oz or 32-128 fl per 100 gal. **Drench rates:** 4 tsp-1.25 fl oz per gal or 32-128 fl oz per 100 gal. **OMRI listed**

Item: 71-2950 **Size:** 2.5 gal.

Spirato GHN

MOA
12 REI
12**Active Ingredient: Fludioxonil**

For control of foliar, stem and root diseases in certain greenhouse vegetables grown as transplants or grown on to harvest. Labeled for use in interiorscapes, greenhouses, lath, shade and hoop houses, enclosed structures and nurseries. Foliar diseases include *Alternaria*, *Botrytis*, *Cercospora*, *Myrothecium* and *Rhizoctonia* web blight. Labeled as a soil drench for *Cylindrocladium*, *Fusarium*, *Rhizoctonia*, *Sclerotium* and *Thielaviopsis*. **Foliar spray rates:** ¼-½ tsp per 4 gal or 1-2 fl oz per 100 gal. **Drench rates:** ¼-½ tsp per 4 gal or 1-2 fl oz per 100 gal. **Restricted use pesticide in NY. Nassau and Suffolk County, NY restrictions apply.**

Item: 71-2948 **Size:** 1 pt.

Subdue Maxx

MOA
4 REI
48**Active Ingredient: Mefenoxam**

Systemic residual control of root and stem rot diseases caused by *Pythium* and *Phytophthora*. Applications for downy mildew must be tank mixed with a product for downy mildew from another MOA class. **Drench rate:** Soil drench at time of seeding at 0.13-0.25 fl oz per 100 gal; at time of transplanting ½-1 fl oz per 100 gal. A 0 hour REI can be obtained for drench applications that meet label criteria. **Foliar spray rates:** 0.15-0.3 ml per gal or 0.5-1 fl oz per 100 gal. **Many vegetable and herb transplants can be treated. CA and NY require a supplemental label.** Some states have 24C labels that allow for use on basil.

Item: 71-2979 **Size:** 1 qt.
Item: 71-2978 **Size:** 1 gal.
Item: 71-29781 **Size:** 10 gal.

TerraClean 5.0



New

1

MOA
NC REI
0**Active Ingredient: Hydrogen dioxide, peroxyacetic acid**

Soil drench treatment for the control of soil-borne plant pathogens such as: *Fusarium*, *Phytophthora*, *Pythium*, *Rhizoctonia*, *Thielaviopsis* and *Verticillium*. For use on many edible crops. **Drench rates:** 25 fl oz per 200 gal per 1,000 sq ft of soil to be treated. **OMRI listed.**

Item: 71-2995 **Size:** 5 gal.

GGSPRO TIP

SEGWAY FUNGICIDE

This widely used *Pythium* product has added herbs and peppers grown to harvest and tomato transplants to the label.

Terraguard SC

**Active Ingredient:** Triflumizole

Foliar sprays control *Alternaria*, *Botrytis*, *Rhizoctonia* (aerial), rust and scab. Drench applications control *Cylindrocladium*, *Fusarium* and *Thielaviopsis*. Labeled for use on transplants and vegetable grown to harvest for powdery mildew. **Foliar spray and drench rates:** 1/8-1 tsp per gal or 2-16 fl oz per 100 gal. **Restricted use pesticide in NY. Nassau and Suffolk County, NY restrictions apply.**

Item: 71-3018 **Size:** 1 qt.

Triathlon BA

**Active Ingredient:** *Bacillus amyloliquefaciens* strain D747

Biofungicide/bactericide for use on hemp, vegetables and herbs, berries and stone fruits for prevention of many foliar and root diseases. Foliar sprays for anthracnose, *Alternaria*, bacterial leaf spots (*Erwinia*, *Pseudomonas*, *Xanthomonas*), *Botrytis*, *Cercospora*, downy mildew, *Entomosporium*, *Myrothecium*, powdery mildew, rust, and scab. Soil drench application prevents *Fusarium*, *Pythium*, *Phytophthora*, and *Rhizoctonia*. Labeled for cutting and root dip.

Foliar spray rates: 2 tsp-2 Tbls per gal or 16-96 fl oz per 100 gal. **Drench rates:** 2-4 1/2 tsp per gal or 16-72 fl oz per 100 gal. **OMRI listed.**

Item: 71-3040 **Size:** 1 gal.

ZeroTol 2.0

**Active Ingredient:** Hydrogen dioxide & Peracetic acid

For use in greenhouses, landscapes, nurseries and hydroponics. Kills algae, bacteria, fungi and their spores on contact. Can be used to treat irrigation water for pathogen control. Labeled for use on herbs, vegetables, small fruits, and hard surface applications. Can be applied as a spray, fog or drench. Leaves no residue and has 0 REI for drench treatments if label conditions are met. **Foliar spray rates:** 0.5-1.25 fl oz per gal or 50-128 fl oz per 100 gal. **Drench rates:** 0.25-1.25 fl oz per gal or 25-128 fl oz per 100 gal. **OMRI listed.**

Item: 71-35501**Item - CA only:** 71-35501-CA**Item:** 71-35511**Item - CA only:** 71-35511-CA**Size:** 2.5 gal.**Size:** 2.5 gal**Size:** 30 gal.**Size:** 30 gal

ZeroTol HC

**Active Ingredient:** Hydrogen Dioxide and Peracetic Acid

ZeroTol HC is a fungicide/bactericide to prevent or control plant diseases on vegetable, berry and fruit crops. It is also labeled for many hard surfaces to control odor causing bacteria, algae, fungi, moss, mold and mildew. Packaging designed for smaller growers and hobby greenhouses. **Foliar spray rates:** 0.64-0.85 fl oz per gal. **OMRI listed.**

Item: 71-3545 **Size:** 1 gal.

BioSafe Test Strips



Test Strips for ZeroTol 2.0, ZeroTol HC, SaniDate 5.0 and SaniDate 12.0. Measuring the concentration of PAA, which is called peracetic acid or peroxyacetic acid, is the most useful way of monitoring the strength of the oxidizers from Biosafe.

For testing the PAA concentration of the final dilution for applications such as hydroponic production the low-range test strip is most appropriate. It measures PAA concentrations from 0-50 ppm.

Item: 31ZTTL 100 PAA low-range strips/vial

For testing higher concentrations of PAA such as stock solutions the high-range test strip is the better choice, measuring PAA from 50-500 ppm.

Item: 31ZTTK 100 PAA high-range strips/vial

Growth Regulators

Advocate



REI 12

Active Ingredient: Indole-3-butyric acid

Rooting hormone for use during cutting propagation. Approved for use on annual, perennial, and woody plant material. Application methods include foliar sprays and basal cutting dips. Rates vary widely based on plant species.

Item: 73-1157 **Size:** 1 qt.

ProGibb T & O



REI 12

Active Ingredient: Gibberellic Acid GA3

Plant growth regulator used to promote stem elongation, substitution for cold treatment in certain seeds and to hasten flowering in certain plants. Use on azaleas, chrysanthemums, cyclamen, fuchsia, geranium, hydrangea and others. Rates vary widely depending on the application. **OMRI listed.**

Item: 73-1930 **Size:** 1 qt.

Herbicides

Herbicides come in **pre-emergent** (preventors, applied before weed seeds germinate) or **post-emergent** (eradicators, applied after weeds germinate and are actively growing). Most herbicides are not labeled for use in the greenhouse. Consult the product label for specifics. Please see our Grower Supplies catalog for herbicides that may be useful for your non-crop areas, including driveways, field perimeters and fence lines. There are many different products to choose from depending on type of weeds being treated, time of treatment, application method, etc. Contact your salesperson, our office, or your state extension station for recommendations.

AXXE



Active Ingredient: Ammonium Nonanoate

Quick burn-down **post-emergent, non-selective**, contact herbicide labeled for use on many sites including interiorscapes, greenhouses, and landscapes. **Foliar spray rate:** 6–19 fl oz per gal. Control grasses and broadleaf weeds, mosses, liverworts and lichens. Does not translocate to roots. Do not apply to plants wet with dew. No surfactant needed. **OMRI listed with restrictions** - Prior to use OMRI certification needs to be verified if applying inside the greenhouse.

Item: 72-1050 **Size:** 2.5 gal.

Fireworxx



Active Ingredient: Caprylic acid and Capric acid

Fast acting, **non-selective, post-emergent** broadleaf weed, grass, algae and moss killer. Results seen in hours to a few days. It can be used in and around hemp, edible crops, avoiding contact with desirable foliage. Can be used in greenhouses. Fireworxx can also be added at a 1% rate to improve the performance of other herbicides such as glyphosate and glufosinate. **Foliar spray rates** are based on the size and woodiness of the weeds: 4-12 fl oz per gal or 3-9 gal per 100 gal. **OMRI listed.**

Item: 72-1608 **Size:** 1 gal.

Scythe



Active Ingredient: Pelargonic acid

A naturally occurring fatty acid for use as a **non-selective, post-emergent**, burn-down, top-killing herbicide. Scythe has no soil activity, and its non-systemic action making it the ideal choice for trimming and edging, spot weeding, and renovations. **Rate:** 4–13 fl oz per gal or 3-10 gal per 100 gal.

Item: 75-10512 **Size:** 2.5 gal.

Insecticides

As of April 2021, marijuana remains a Schedule 1 drug at the federal level. This means that no EPA product labels include cannabis as marijuana. States that allow cannabis production regulate chemistry use within their state. For these reasons, we do not list cannabis as a labeled crop on any EPA registered item, even if a specific state does not prohibit its use. GGSPRO can help guide product selection, though the applicator holds all responsibility to follow state, local and federal regulations.

Altus



Active Ingredient: Flupyradifurone

Altus is a soluble concentrate (SC) formulation of a broad spectrum insecticide. It is labeled as a foliar spray or drench for use in greenhouses, field and container nurseries, shadehouses, interiorscapes and landscapes. Labeled pests include: aphids, leafhoppers, mealybugs, plant bugs and whiteflies. Suppression of soft scale and western flower thrips can also be expected. Altus Can be applied to many vegetable transplants. In addition, cucumbers, lettuce, peppers and tomatoes can be treated when grown to harvest. **Foliar spray rates:** 1/2-3/4 tsp per gal or 7-14 fl oz per 100 gal. **Drench rates:** 1/6-1/4 tsp per gal or 2.8-3.7 fl oz per 100 gal. 12 REI in CA. **Restricted use pesticide in NY. Prohibited in Nassau and Suffolk County, NY.**

Item: 70-1161 **Size:** 64 oz.

Akari 5SC



Active Ingredient: Fenpyroximate

Miticide with 21 to 28 days of residual contact control. Labeled for broad mites, cyclamen mites and spider mites. Mite feeding stops within a day and control can be evaluated 4 to 7 days after treatment. No visible residue. **Foliar spray rates:** 1-1½ tsp per gal or 12-24 fl oz per 100 gal. Greenhouse grown tomatoes and cucumbers: ½-1 tsp per gal or 8-16 fl oz per 100 gal.

Item: 70-1160 **Size:** 1 qt.

GGSPRO TIP

ANCORA INSECTICIDE

Control of root aphids can be challenging. Ancora is a great choice for drench applications.



Ancora 

Ancora is a wettable powder insecticide based on a naturally occurring fungus. From a foliar spray Ancora is labeled to control aphids, leafminers, mealybugs, plant bugs, spider mites, thrips, whiteflies and others. Soil applications can be made by drenching, soil surface sprays or soil injection for beetle grubs, caterpillars and larvae, symphylans (centipedes), rootworms, weevils (including black vine weevil), wireworms and the pupal stage of thrips. Ancora is labeled for hemp, many herbs, fruits and vegetables grown in containers in greenhouses, shade houses, hydroponics and field-grown nursery stock. Excellent plant safety. The fungus in this product is most effective when applied in a low UV light, 65-85°F, high humidity (80%) environment for 8-10 hours to allow for maximum spore germination. **Foliar spray and drench rates:** 1 oz per 5 gal or 14-28 oz per 100 gal. For labeled soil pests it can be drenched at the same rates. It must be stored between 40-50°F. **OMRI listed.**

Item: 70-1166 Size: 1 lb.

Azera Pro 

Active Ingredient: Azadirachtin, Pyrethrins

Azera Pro is a combination of an IGR with natural pyrethrins that provides a quick knockdown for many insect and mite pests. It is labeled for a wide range of edible crops in commercial greenhouse use only. **Foliar spray rates:** 0.5-1.0 fl oz per gal, 53-107 fl oz per 100 gal. Minimum re-application interval is 5 days. **OMRI listed.**

Item: 70-1232 Qty: 1 qt.
Item: 70-1233 Qty: 1 gal.

Azatin O



Active Ingredient: Azadirachtin

Botanical (neem) insect growth regulator with 4.5% active ingredient. Halts the growth process of instar and pupal stages of labeled insects. Controls whiteflies, thrips, mealybugs, leafminer, fungus gnats, soft scale, and more. Herbs and vegetables on the label. **Foliar spray rates:** 2/3 tsp per gal or 10.66 fl oz per 100 gal. **Drench rate:** 1/2-1 tsp per gal. **OMRI listed.**

Item: 70-12301 Size: 1 qt.

Aza-Direct



Active Ingredient: Azadirachtin

A botanical (neem) insect growth regulator. Tank mix with other insecticides to increase control of a wide range of pests because of its ability to keep larval, pupal, and nymph stages from developing further. Labeled for vegetables, fruit trees, and herbs. Approved for use in greenhouses, nurseries, or outdoor field production. **Foliar spray rates:** 1 1/8-1 1/3 tsp per gal or 18-21 fl oz per 100 gal. **OMRI listed.**

Item: 70-1222 Size: 2.5 gal.

Benefit 60 WP 

Active Ingredient: Imidacloprid

Insect control on ornamental and certain vegetable transplants in nurseries, greenhouses and interiorscapes. Applications can be made by foliar spray or soil drenches. Controls: aphids, caterpillars, mealybugs, leafminers and other insects. **Foliar spray rates:** One 20-gram packet per 100 gal. See label for soil treatments. **Restricted use pesticide in CT, NY & VT.**

Item: 70-1186 Size: 5 x 20 gram packets

AzaGuard EC 

Active Ingredient: Azadirachtin

A botanical (neem) insect growth regulator and nematicide. Targets larval, pupal and nymph stages of many insects such as leafhoppers, mealybugs, soft scale, thrips, and whitefly. Labeled for use on many edible crops and hemp in greenhouses, interiorscapes and field crops. **Foliar spray rates:** 3/4-1 tsp per gal or 8-10 fl oz per 100 gal. For heavy infestations or dense foliage, use 2x these rates. **Drench rates:** 1/2 tsp per gal or 8 fl oz per 100 gal. **OMRI listed.**

Item: 70-1224 Size: 1 qt.
Item: 70-1225 Size: 1 gal.

BioCeres WP 

Active Ingredient: *Beauveria bassiana* strain ANT-03

Naturally occurring bioinsecticide as a wettable powder. Foliar sprays control or suppress aphids, thrips, whiteflies, plant bugs, beetles and weevils. Labeled for use on hemp, certain herbs, vegetables, berries and fruits in greenhouses and fields. Spray thoroughly but not to runoff, repeat at 5-7 day intervals. Do not apply fungicides within 4 days of applying. **Foliar spray rates:** 1 tsp-1 Tbls per gal or 15-25 oz per 100 gal. **OMRI listed.**

Item: 70-1245 Size: 1 lb.
Item: 70-1245-CA Size: 1 lb.

GGSPRO TIP

BOTANIGARD WP

Growers have trusted BotaniGard their go-to biopesticide for years. The active ingredient, *Beauveria bassiana*, is a naturally occurring fungus that infects many types of insects. Add BotaniGard WP or one of our other *Beauveria* products to your cabinet today!

BotaniGard 22WP



Active Ingredient: *Beauveria bassiana* strain GHA

Wettable powder insecticide. Naturally occurring fungus for use in controlling aphids, thrips and whiteflies on hemp, herbs and vegetable crops in greenhouses and outdoor production. Greater compatibility with biological control agents than the ES formulation. **Foliar spray rates:** 1-4 tsp per gal; 0.5-2 lb per 100 gal. Safe for tomatoes.

Item: 70-12521 **Size:** 1 lb.

BotaniGard ES



Active Ingredient: *Beauveria bassiana* strain GHA

Emulsifiable suspension mycoinsecticide. A naturally occurring fungus for use in controlling whitefly, aphids and thrips on greenhouse crops, hemp, herbs and vegetables. For indoor/outdoor nursery, greenhouse and landscape use. **Foliar spray rates:** 2-4 tsp per gal or 32-64 fl oz per 100 gal. May damage tomatoes.

Item: 70-12501 **Size:** 1 qt.

Item: 70-12511 **Size:** 1 gal.

BotaniGard Maxx



Active Ingredient: Pyrethrins and *Beauveria bassiana* Strain GHA

Natural pyrethrum combined with a naturally occurring fungus. Foliar sprays control aphids, thrips, whitefly, mealybugs, leafhoppers, plants bugs and many more. Labeled for herbs, vegetables, fruits and nuts in greenhouses, shade houses, nursery, field, landscape, turf and interiorscapes. Check compatibility with fungicides prior to tank mix. **Foliar spray rates:** 1/2-2 tsp per gal water; 8-32 fl oz per 100 gal (higher rates on vegetables outside).

Item: 70-1253 **Size:** 1 qt.

Item: 70-1254 **Size:** 1 gal.

Item: 70-1255 **Size:** 2.5 gal.

BT NOW



New



Active Ingredient: *Bacillus thuringiensis* ssp. *kurstaki* strain EVB-113-19

BT NOW is toxic to select species of Lepidopteran larvae when applied as a foliar spray. It is labeled for use on edible crops in greenhouses, nurseries and agricultural sites. BT NOW must be ingested by susceptible larvae to be effective. Thorough coverage of target foliage where larvae are feeding is essential. **Foliar spray rates:** 1/2 - 3 1/2 tsp per gal or 8-56 fl oz per 100 gal. **OMRI listed.**

Item: 70-1290 **Size:** 1 gal.

Bug-N-Sluggo



Active Ingredient: Iron Phosphate, Spinosad

Small bait pellets for the control of ants, earwigs, crickets, cutworms, slugs, snails, sowbugs and pillbugs. Scatter pellets around the perimeter of the field or greenhouse vegetable plantings. Fruit trees and small fruits. **Rates:** 0.5-1 lb per 1,000 sq ft for most applications. **OMRI listed.**

Item: 70-1295 **Size:** 50 lb.

Captiva Prime



New



Active Ingredient: Capsicum oleoresin extract, garlic oil, & canola oil

Natural plant-based bioinsecticide, miticide, and insect repellent in an emulsifiable concentrate formulation. Tank mix with other insecticides and miticides to increase control of a wide range of pests because of its irritant effect. It is recommended to perform small-scale trials before applying to entire crop areas to identify any phytotoxicity issues. Labeled for a wide range of edibles grown in greenhouses, nurseries, or outdoors. **Foliar spray rates:** 1/2-1 tsp per gal or 8-16 fl oz per 100 gal. **OMRI listed.**

Item: 70-1307 **Size:** 1 qt.

Citation WSP



Active Ingredient: Cyromazine

Insect growth regulator for the control of fungus gnat, and dipterous leafminers in interiorscapes. Also labeled for shoreflies in greenhouse and interiorscapes. Labeled for certain vegetable transplants. **Drench rate:** 1/2 tsp per gal or one 2.66 oz pouch per 100 gal.

Item: 70-13501 **Qty:** 6 - 2.66 oz

Conserve SC



MOA 5 | REI 4

Active Ingredient: Spinosad



Conserve insecticide is labeled for control of cutworms, eastern tent caterpillar, gypsy moth larvae as well as thrips, leafminers, leaf rollers and others. **Foliar spray rates:** $\frac{1}{3}$ – $1\frac{1}{4}$ tsp per gal or 6–22 fl oz per 100 gal water. Many outdoor edible crops on the label.

Item: 70-1365 Size: 1 qt.

Deadline Mini-Pellets



MOA 1A | REI 12

Active Ingredient: Metaldehyde

Snail and slug bait mini pellets. Use around orchards and outdoor vegetables. Resistant to rain and irrigation. **Rates:** 1-3 lb per 1,000 sq ft; 10-40 lb per acre. **Restricted use pesticide in NY.**

Item: 70-14301 Size: 10 lb.

DiPel Pro DF



MOA 11A | REI 4

Active Ingredient: *Bacillus thuringiensis kurstaki* ABTS-351

Bacillus thuringiensis for the control of many caterpillars. **Foliar spray rates:** $\frac{1}{2}$ –4 tsp per gal or 0.25–2 lb per 100 gal. **OMRI listed.**

Item: 70-1450 Size: 1 lb.

Discus L



MOA 3A/4A | REI 12

Active Ingredient: Cyfluthrin and Imidacloprid

Nursery insecticide that contains the active ingredients from Marathon and Decathlon. May be applied as a foliar spray or a drench. Translaminar activity with a 2-4 week residual when applied as a foliar spray. Many pests are on the label including aphids, caterpillars, grasshoppers, Japanese beetles, lace bugs, leafminers, mealybugs, scale (crawlers), spittlebugs, whiteflies and others. Labeled for use in greenhouses and outdoor nurseries. Labeled for aphids on vegetable transplants when applied as a drench only. **Foliar spray rates:** 0.25 fl oz per gal or 25 fl oz per 100 gal. **Drench rates** per label. **Restricted use pesticide in CT, MD & NY.**

Item: 70-14091 Size: 1 gal.

Distance IGR



MOA 7C | REI 12

Active Ingredient: Pyriproxyfen

Insect growth regulator for use on greenhouse and interiorscapes. Controls whitefly, fungus gnat and shorefly larvae (soil surface spray or drench), scale, and others. **Foliar spray rates:** $\frac{1}{3}$ – $\frac{2}{3}$ tsp per gal or 6–12 fl oz per 100 gal.

Item: 70-1465 Size: 1 qt.

Ecotec Plus



MOA NC | REI 0

Active Ingredient: Rosemary Oil, Geraniol, Peppermint Oil

Broad spectrum contact insecticide/miticide provides quick kill and control of all life stages of certain pests. Foliar sprays control: aphids, thrips, whiteflies, mites, cabbage loopers, armyworms and other pests. Labeled for use on edibles in greenhouses, nurseries, interiorscapes and residential use. **Foliar spray rates:** 1–4 tsp per gal or 16–64 fl oz per 100 gal. **OMRI listed.**

Item: 70-1507 Qty: 2.5 gal.

Endeavor WDG



MOA 9B | REI 12

Active Ingredient: Pymetrozine

A unique mode of action controls aphids and whiteflies by interfering with their ability to feed. Applied as a foliar spray, insect death occurs in 2-4 days through translaminar systemic activity. Foliar sprays can be used on vegetable transplants for re-sale. Soil drenches can be used on ornamentals only to provide 5 weeks or more of control. **Foliar spray rates:** 1 Tbls per 5 gal or 5.0 oz per 100 gal. **Drench rates:** 5 oz per 100 gal. **In CA only labeled for sprays on ornamentals and no use on vegetables.**

Item: 70-1660 Qty: 6-2.5 oz.

GCSPRO TIP

BCA COMPATIBILITY

Griffin is uniquely able to provide holistic IPM guidance, including recommendations for crop protection chemistry that will be compatible with your BCAs. Ask for more details.

Entrust SC



MOA 5 | REI 4

Active Ingredient: Spinosad

Labeled for control of foliage feeding Lepidopterous larvae (worms or caterpillars), Colorado potato beetles, leafminers, thrips (suppression only) on many edible crops in fields and greenhouses. It is labeled for aquatic plant production on labeled pests. **Foliar spray rates:** 1/8-1 1/4 tsp per gal or 3-22 fl oz. **OMRI listed.**

Item: 70-1538 **Size:** 1 qt.

Gemstar



MOA UN | REI 4

Active Ingredient: polyhedral occlusion bodies of the nuclear polyhedrosis virus of *Helicoverpa zea*

Biological insecticide in an aqueous suspension. Very host-specific, naturally occurring virus that infects and kills the larvae of corn earworm, Old World bollworm, and tobacco budworm. Death typically occurs 3-10 days after ingestion. Labeled for use on hemp, tomatoes, peppers, lettuce, cucumber, strawberries and more in fields. **Foliar spray rates:** 1 tsp - 1 Tbls per gal or 4-10 fl oz per acre. 0 day PHI. **OMRI listed.**

Item: 70-1712 **Size:** 1 qt
Item: 70-1714 **Size:** 2.5 gal

Flagship 25WG **syngenta**

MOA 4A | REI 12

Active Ingredient: Thiamethoxam

Flagship offers contact, translaminar systemic and systemic control of many greenhouse and nursery pests, including aphids, leafhoppers, mealybugs, whiteflies and others. Applied as a foliar spray, It is rapidly absorbed into the leaf tissue yielding 2 to 4 weeks residual control from one foliar application. Drench applications can provide systemic control for 6-8 weeks. Certain vegetable transplants are on the label. Consult label for spray rates that vary by pest and crop. **Foliar spray rates and drench rates:** 1/2-1 tsp per gal or 4-8.5 oz. per 100 gal. Drench volumes found on the label. **Restricted use pesticide in CT, MA, MD & NY. Prohibited in Nassau and Suffolk County, NY. NY use limited to Christmas trees and greenhouses.**

Item: 70-17002 **Size:** 2 lb.

Floramite SC



MOA 20D | REI 12

Active Ingredient: Bifenazate

Soluble concentrate miticide that controls 8 species of mites, including all life stages of spider mites. Labeled for greenhouses, interiorscapes, landscapes, nurseries and more. High pH water reduces effectiveness. Excellent plant safety. Labeled for tomatoes that are 1" or larger at maturity. **Foliar spray rates:** 1/4-1/2 tsp per gal or 4-8 fl oz per 100 gal.

Item: 70-1653 **Size:** 1 qt.

Fulfill



MOA 9B | REI 12

Active Ingredient: Pymetrozine

Contact and translaminar insecticide for control of aphids and whiteflies. Feeding stops quickly, death follows in 2-4 days. For use on edible vegetables, hops and other crops grown to harvest in greenhouses and fields. **Foliar spray rates:** 1 Tbls per 5 gal or 5 oz per 100 gal.

Item: 70-1505E **Size:** 27.5 oz.

Gnatrol WDG



MOA 11A | REI 4

Active Ingredient: *Bacillus thuringiensis israelensis*

Gnatrol WDG is a biological larvacide, applied as a drench for fungus gnat larvae in greenhouses, interiorscapes and nurseries. It is labeled for vegetable crops as well as breeding areas on greenhouse floors. 2-year shelf life. **Drench rates:** preventative or light to moderate infestations, apply 3.2-6.4 oz per 100 gal. For heavier infestations apply 13-26 oz per 100 gal. Apply 3 times at weekly intervals. **OMRI listed.**

Item: 70-1716 **Size:** 16 lb.

Grandevo CG



MOA UN | REI 4

Active Ingredient: *Chromobacterium subtsugae* Strain PRAA4-1T

Biological insecticide/miticide for use against caterpillars, aphids, mealybugs, thrips, whiteflies and mites on hemp and edibles in greenhouses and nurseries. **Rates:** 2.5 tsp-2.5 Tbls per gal or 1-3 lb per 100 gal. **OMRI listed.**

Item: 70-1751 **Size:** 1 lb.
Item: 70-1754 **Size:** 4 lb.
Item: 70-1756 **Size:** 10 lb.

Hexygon IQ



MOA 10A | REI 12

Active Ingredient: Hexythiazox

New water based formulation. Long residual mite growth regulator that controls egg and immature stages of spider mites and several other Tetranychid mites for up to 60 days. Certain fruiting vegetables in greenhouses can be treated. Use only one application per crop per year. **Foliar spray rates:** 1/4-1/2 tsp per gal or 4-8 fl oz per 100 gal. **Restricted use pesticide in NY.**

Item: 70-1868 **Size:** 1 qt.

Kontos

MOA
23 | REI
24

Active Ingredient: Spirotetramat

Kontos is a broad spectrum miticide/insecticide that has true systemic activity. It can be applied as a spray or a drench and includes many vegetable transplants on the label. From a foliar spray it controls: aphids, mealybugs, scale, whiteflies and others. Drench applications add spider mite and thrips control. See label for complete list of phyto concerns. **Foliar spray rates:** ½-1 tsp per 5 gal or 1.7-3.4 fl oz per 100 gal. **Drench rates** and volumes per the label. 0 hr REI for drenches if conditions are met.

Item: 70-19601 Size: 250 ml (8.45 fl oz).

Kopa

MOA
UN | REI
12

Active Ingredient: Potassium salt of fatty acids

Kopa is an insecticidal soap applied as a foliar spray for the control of many insects, mites and powdery mildew. Kopa can be applied to many field and greenhouse grown vegetables and herbs. There are some plant safety concerns. Refer to the label for strategies to reduce the risk of phytotoxicity. **Rates:** 1.25 -2.5 fl oz per gal or 1-2 gal per 100 gal. 0 day PHI. **OMRI listed.**

Item: 70-1970 Size: 2.5 gal.

Lada 2F

MOA
4A | REI
12

Active Ingredient: Imidacloprid

Insect control on certain vegetable transplants in nurseries, greenhouses, and interiorscapes. Application can be made by soil broadcast, sprays and drenches (including ebb and flood treatments). Controls aphids, beetles, mealybugs, leafminers, soil grubs and other insects. **Foliar spray rates:** ½ tsp per 5 gal or 1.7 fl oz per 100 gal. See label for soil treatment rates. **Restricted use pesticide in CT, MD, & NY. No soil injection in Nassau and Suffolk Country, NY.**

Item: 70-3150 Size: 1 gal.

Marathon II

MOA
4A | REI
12

Active Ingredient: Imidacloprid

Insect control on certain vegetable transplants in nurseries, greenhouses and interiorscapes. Application can be made by foliar application, soil broadcast sprays and drenches (including ebb and flood treatments). Controls aphids, caterpillars, mealybugs, leafminers and other insects. **Foliar spray rates:** ½ tsp per 5 gal or 1.7 fl oz (50 ml) per 100. See label for soil treatment rates. **Restricted use pesticide in CT, MD & NY. No soil injection in Nassau and Suffolk County, NY.**

Item: 70-23712 Size: 250 ml.

Molt-X

MOA
UN | REI
4

Active Ingredient: Azadirachtin

Botanical (neem) insect growth regulator and nematicide. Targets larval, pupal and nymph stages of many insects such as cutworms, caterpillars, leafhoppers, thrips, and whitefly. Labeled for use on many edible crops in greenhouses, nurseries, and interiorscapes. Excellent plant safety. For heavy infestations or dense foliage use the maximum rates. For tank mixing use the lowest rates. **Foliar spray rates:** ½-1 tsp per gal or 8-16 fl oz per 100 gal. **Drench rates:** ½ tsp per gal or 8 fl oz per 100 gal. **OMRI listed.**

Item: 70-2400 Size: 1 pt.
Item: 70-2405 Size: 1 qt.

M-Pede

MOA
UN | REI
12

Active Ingredient: Potassium salts of fatty acids

Concentrated insecticidal soap. A concentrated contact insecticide containing naturally occurring fatty acids effective on adult and immature stages of labeled insects on vegetables and greenhouse crops. Controls whitefly, aphids, mealybugs, thrips, spider mites and more. There are some plant safety concerns. Refer to the label for strategies to reduce the risk of phytotoxicity. **Foliar spray rates:** 1.25-2.5 fl oz per gal or 1-2 gal per 100 gal. **OMRI listed.**

Item: 75-10262 Size: 2.5 gal.

Mycotrol ESO

MOA
UN | REI
4Active Ingredient: *Beauveria bassiana*, strain GHA spores

Emulsifiable suspension mycoinsecticide used in controlling aphids, borers, leaf-feeding insects, thrips, mealybugs, spider mites and whiteflies. Soil drenches add grub and weevil control. Labeled for hemp, many edible crops in greenhouses, field production, interiorscapes, and commercial landscapes. Additional surfactant is not recommended for the ESO formulation. **Foliar spray rates:** 1-4 tsp per gal; 16-64 fl oz per 100 gal. **Drench rates:** 2-8 fl oz per 1000 sq ft.

Item: 70-2416 Size: 1 qt.
Item: 70-2417 Size: 1 gal.

Mycotrol WPO

MOA
UN | REI
4Active Ingredient: *Beauveria bassiana*, strain GHA spores

Wettable powder mycoinsecticide used in controlling aphids, borers, leaf-feeding insects, thrips, mealybugs, spider mites and whiteflies. Soil drenches add grub and weevil control. Labeled for many edible crops in greenhouses, field production and interiorscapes. **Foliar spray rates:** 1-4 tsp per gal or 1/2-2 lb per 100 gal. **Drench rates:** 1-4 oz per 1000 sq ft.

Item: 70-2420 Size: 1 lb.

Overture 35 WSP

MOA
UN | REI
12

Active Ingredient: Pyridalyl

Overture is an insecticide for thrips and caterpillars on ornamentals produced in commercial greenhouses only. Good translaminar movement in plant tissue. **Rate:** Mix one 2 oz packet in 25 gal. Apply at 14-28 day intervals. Allow 3-6 days to evaluate thrips control.

Item: 70-2590 **Size:** 1 lb. (8 x 2 oz.)

Pedestal SC

MOA
15 | REI
12

Active Ingredient: Novaluron

Insect growth regulator for the control of thrips, leafminers and whiteflies. Tomato transplants grown in greenhouses can also be treated. **Foliar spray rates:** 1/3-1/2 tsp per gal or 6-8 oz per 100 gal. **Limited to indoor greenhouse use in NY.**

Item: 70-29501 **Size:** 1 qt.

Pest Out

MOA
UN | REI
0

Active Ingredient: Cottonseed Oil, Clove Oil, Garlic Oil

Foliar spray for the control of aphids, mites and thrips on many edible crops. Active ingredients are essential oils and this product is a 25b product (no EPA registration required). **Foliar spray rates:** 1.25 fl oz per gal or 1 gal per 100 gal. **OMRI listed.**

Item: 16-11010 **Size/qty:** 1 gal. - 4 per cs.
Item: 16-11011 **Size/qty:** 2.5 gal. - 2 per cs.

Pycana

MOA
UN/3A | REI
12

Active Ingredient: Pyrethrins and Canola Oil

Natural pyrethrins plus botanical oil labeled for a wide variety of edible crops in greenhouses and nurseries. Labeled pests include: aphids, earwigs, leafhoppers, tent caterpillars, plant bugs, mealybugs, thrips, spider mites, sawfly larvae and more. Some phyto concerns; see label. Do not apply within 21 days of a sulfur product. **Foliar spray rates:** 1.25-2.5 fl oz per gal or 1-2 gal per 100 gal. **OMRI listed.**

Item: 70-2655 **Size:** 1 gal.

PyGanic 5.0 Specialty

MOA
3A | REI
12

Active Ingredient: Pyrethrins

Natural pyrethrum insecticide labeled for a wide range of edible crops in greenhouses and outdoor crops. Labeled pests include: aphids, beetles, caterpillars, leafhoppers and many others. **Foliar spray rates:** 1-2 tsp per gal or 16-32 fl oz per 100 gal. **OMRI listed.**

Item: 70-2687 **Size:** 1 qt.
Item: 70-2688 **Size:** 1 gal.

Pylon

MOA
13 | REI
12

Active Ingredient: Chlorfenapyr

Miticide/Insecticide/Foliar nematicide with translaminar activity for use on certain fruiting vegetables in greenhouses only. Pests controlled include: spider mites, broad mites, cyclamen mites, thrips, fungus gnat larvae (soil surface spray) and foliar nematodes (consult label for special instructions). **Foliar spray rates:** mites and thrips 1/3 tsp per gal or 5.2 fl oz per 100 gal. Do not use with a organo-silicone surfactant such as CapSil. **Soil surface spray rates** for fungus gnat larvae: 1/3-2/3 tsp per gal or 5.2-10 fl oz per 100 gal. **Restricted use pesticide in NY.**

Item: 70-2675 **Size:** 1 pt.
Item: 70-26751 **Size:** 0.5 gal.

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Pylon TR



MOA 13 | REI 12

Active Ingredient: Chlorfenapyr

A total release translaminar and contact insecticide for certain fruiting vegetables in greenhouses to control mites, thrips and adult fungus gnats. **Rate:** 1 can per 1,500-3,000 sq ft. **Restricted use pesticide in NY.**

Item: 70-2660 **Qty:** 12-2 oz.

Pyrethrum TR



MOA 3A | REI 12

Active Ingredient: Pyrethrins & PBO

A ULV greenhouse aerosol formulation containing natural pyrethrins. Broadly labeled for many greenhouse pests on a wide variety of greenhouse crops including vegetables and herbs. **Rate:** 1 can per 3,000 sq ft. **Restricted use pesticide in NY.**

Item: 70-2693 **Qty:** 12-2 oz.

Rycar



MOA 9B | REI 12

Active Ingredient: Pyrifluquinazon

Quickly stops insect pests from feeding. Used as a foliar spray to control aphids, chilli thrips, leafhoppers, mealybugs, and whitefly. Has contact and translaminar activity with good crop safety. Labeled for use on greenhouse cucumbers, lettuce, peppers and tomatoes grown on to harvest. **Foliar spray rates:** 1/2-1 tsp per 5 gal or 1.6-3.2 fl oz per 100 gal.

Item: 70-2900 **Size:** 8 oz.

Safari 20 SG



MOA 4A | REI 12

Active Ingredient: Dinotefuran

Safari is labeled as a foliar spray. Insects controlled include aphids (drench only), fungus gnat larvae, leafminers, mealybugs, scale, thrips (suppression only) and whiteflies. Certain vegetable transplants can be treated by foliar spray only. **Foliar spray rates:** at 1/4-1/2 tsp per gal or 4-8 oz per 100 gal. **Restricted use pesticide in CT, MA, MD & NY. Special use instructions for NY on 24C label.**

Item: 70-29951 **Size:** 3 lb.

Sanmite SC



MOA 21A | REI 12

Active Ingredient: Pyridaben

New SC formulation adds additional pests and certain vegetable transplants. Labeled pests include: aphids (certain species), leafhoppers, mites (broad, spider and others) pear psylla, and whiteflies. Sanmite SC labeled for greenhouse grown tomatoes and cucumbers. **Foliar spray rates:** 1 tsp per 2.5-1.66 gal or 6.4-9.6 fl oz per 100 gal. The REI includes ventilation requirements per the label. **Prohibited in Nassau and Suffolk County, NY.**

Item: 70-2915 **Size:** 1 qt.

Sevin SL



MOA 1A | REI 12

Active Ingredient: Carbaryl

Contact broad spectrum insecticide for agriculture and commercial pests. As a foliar spray it controls: aphids, armyworms, beetles, caterpillars, lacebug, leafhoppers, leafminers adults, plant bugs, and more. Labeled for certain vegetables and fruit/nut crops. Use of adjuvants may increase potential for crop injury. **Foliar spray rates:** 1/2-2 fl oz per gal or 16-64 fl oz per 100 gal.

Item: 70-3002 **Size:** 2.5 gal.

Shuttle O



MOA 20B | REI 12

Active Ingredient: Acequinocyl

Miticide for spider mites that combines a quick knockdown and long residual control. Shows activity against all life stages of susceptible mites. Labeled for certain fruiting vegetables in greenhouses and nurseries. Some phyto concerns; see label. **Foliar spray rates:** 1/2-3/4 tsp per gal or 6.4-12.8 fl oz per 100 gal.

Item: 70-30151 **Size:** 1 pt.

Sil-Matrix



MOA UN | REI 4

Active Ingredient: Potassium silicate

Sil-Matrix is an aqueous liquid concentrate. This versatile product applied as a foliar spray for control of certain insects, mites and foliar diseases. For use on hemp, many edible crops including certain vegetables, berries, vines and fruit trees. Insects and mites controlled: aphids, spider mites and whiteflies. Foliar diseases controlled: Botrytis, powdery mildew and certain turf diseases. **Foliar spray rates:** 2 tsp-1.25 fl oz per gal or 32-128 oz per 100 gal. **OMRI listed.**

Item: 71-2940 **Size:** 2.5 gal.



GGSPRO TIP SIL-MATRIX INSECTICIDE

A unique foliar applied insecticide/miticide/fungicide based on potassium silicate. Edible crops and hemp are on the label, and it is OMRI listed for organic growers.

SuffOil-X



Active Ingredient: Horticultural oil

Labeled for mite, insect and disease control on many vegetables. Labeled insect pests include aphids, mealybugs, mites, scale, whiteflies and many others. Labeled diseases include powdery mildew and rust. **Foliar spray rates:** 1.25-2.5 fl oz per gal or 1-2 gal per 100 gal. **OMRI listed.**

Item: 70-4040 **Size:** 2.5 gal.
Item: 70-4043 **Size:** 30 gal.

Sultan



Active Ingredient: Cyflumetofen

Miticide with a new mode of action. Contact activity and rapid knockdown of all life stages of spider mites. Label cautions against certain tank mixes. Labeled for use in greenhouses, nurseries, landscapes, and interiorscapes. Labeled for certain edible transplants and crops grown to harvest. Good plant safety with up to 28 days of control. **Foliar spray rates:** ¾ tsp per gal or 13.7 fl oz per 100 gal.

Item: 70-3045 **Size:** 16 oz.

Talus 70 DF



Active Ingredient: Buprofezin

IGR for the control of whiteflies, leafhoppers, scale and mealybugs. Up to 28 days of control from one foliar spray. Greenhouse tomatoes are on the label. Excellent plant safety. **Foliar spray rates** vary by pest: 1 1/3- 3 1/4 tsp per gal or 6-14 oz per 100 gal. **Restricted use pesticide in NY. Prohibited in Nassau and Suffolk County, NY.**

Item: 70-1172 **Size:** 3 lb.

TetraSan 5 WDG



Active Ingredient: Etoxazole

Long residual miticide/ovicide. Foliar spray for the control of egg and nymphal stages of several types of mites, including spider mites. Excellent translaminar activity and residual control for 4-6 weeks. Can be used on greenhouse tomatoes. **Foliar spray rate:** One 2 oz water soluble packet per 12.5-25 gal. Labeled for greenhouses, outdoor and interiorscape uses. **Restricted use pesticide in NY.**

Item: 70-3130 **Size:** 1 lb.

Triact 70



Active Ingredient: Extract of neem oil

Broad spectrum fungicide, miticide and insecticide in an emulsifiable concentrate. Thorough coverage required for efficacy. Best used early or when conditions favor disease vs. during a severe outbreak. **Spray rates:** 3.75-7.5 tsp/gal or 0.5-1 gal/100 gal. 0 day PHI.

Item: 70-3226 **Size:** 2.5 gal.

TriStar 8.5 SL



Active Ingredient: Acetamiprid

Translaminar systemic insecticide for use on certain vegetable transplants in greenhouses, shadehouses, lath houses and outdoor nurseries. Applied as a foliar spray for aphids, caterpillars, leafhoppers, mealybugs, scale, thrips, whiteflies and other insect pests. Excellent plant safety. Allows a one-time drench to greenhouse grown tomatoes. See label for rates. **Foliar spray rates:** Rates vary by pest: ¼-1 ½ tsp per gal or 4-25 oz per 100 gal. **Restricted use pesticide in MD & NY.**

Item: 70-85221 **Size:** 1 qt.
Item: 70-85241 **Size:** 1 gal.

Ultra-Pure Oil

MOA
UN | 4

Active Ingredient: Horticultural oil

Ultra-Pure oil is highly refined petroleum oil for control of eggs, immature and adult stages of mites and soft bodied insects including adelgids, aphids, mealybugs, plant bugs, thrips and whiteflies. Labeled for certain vegetables grown in greenhouses and nurseries. Avoid application to plants under moisture or heat stress. See label for further precautions regarding specific crops. **Foliar spray rates:** 1.25-2.5 fl oz per gal or 1-2 gal per 100 gal. **OMRI listed.**

Item: 70-21401 Size: 2.5 gal.

Item: 70-21451 Size: 30 gal.

Ventigra

MOA
9D | 12

Active Ingredient: Afidopyropen

Insecticide with translaminar systemic activity in a water based Dispersible Concentrate (DC) formulation. Labeled for foliar applications to many vegetable transplants (for resale to home consumer market). Sites include: greenhouses, lath houses, shade houses, interiorscapes, landscapes and outdoor nurseries. Ventigra controls or suppresses certain aphids, mealybugs, scale and whiteflies. See label for specific crop concerns. **Foliar spray rates:** (aphids only) ¼ tsp per 3 gal or 1.4 fl oz per 100 gal. (other labeled pests) 1/4-1/2 tsp per gal or 4.8-7.0 fl oz per 100 gal. **Prohibited in Nassau and Suffolk County, NY.**

Item: 70-9550 Size: 20 oz.

Velifer

MOA
UN | 12Active Ingredient: *Beauveria bassiana* strain PPRI 5339

Microbial insecticide/miticide delivered in an oil dispersion formulation for commercial greenhouse use only. Labeled pests include: aphids, mealybugs, mites, thrips and whiteflies. Velifer can be used on fruits, vegetables, herbs and spices. **Foliar spray rates:** ¼- ¾ tsp per gal or 3-13 fl oz per 100 gal.

Item: 70-9540 Size: 1 qt.

Venerate CG

MOA
UN | 4Active Ingredient: Heat-killed *Burkholderia* spp. Strain A396

Biological insecticide applied as a foliar spray provides control of wide variety of caterpillars and control or suppression of many soft bodied insects, such as aphids, caterpillars, fruit curculios, leafhoppers, mites, psyllids, stink bugs, thrips, true bugs, certain weevils, and whiteflies. Use as a foliar spray on hemp, edible crops outdoors or in a greenhouse. Labeled for many food crops, including herbs and fruit-bearing trees. **Foliar spray rates:** 1 Tbls – 2.66 Tbls per gallon or 64-128 oz per 100 gal. **OMRI listed.**

Item: 70-9461 Size: 1qt.

Item: 70-9464 Size: 1 gal.

Item: 70-9465 Size: 2.5 gal.

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