

CHEMICALS



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FUNGICIDES

Actinovate

Code: **MMACTV18OZ**

Actinovate® SP is a high concentration of a patented beneficial bacterium on a 100% water soluble powder. This powerful new product effectively suppresses/controls a wide range of soil borne diseases including Pythium, Phytophthora, Fusarium, Rhizoctonia, Verticillium and other root decay fungi.

Size: 18 oz

Badge X2

Code: **FUNBADGEX210LB**

Badge® X2 is an OMRI certified, patented, dry formulation of copper hydroxide and copper oxychloride. The copper hydroxide releases copper ions fast for immediate plant protection, while the copper oxychloride slowly releases copper ions for extended residual control PLUS excellent wash-off resistance for the best protection possible during and after rains.

Size: 10 lb

Banrot

Code: **FUNBAN2P, FUNBAN40P**

Banrot is a broad spectrum fungicide for the control of soil borne diseases. It contains the active ingredients of Truban plus a systemic fungicide for the control of Pythium, Phytophthora, Rhizoctonia, Fusarium and Thielaviopsis. It may be used as a soil drench at the time of seeding or transplanting.

Size: 2 lb or 40 lb

Biophos Pro

Code: **FUNASBPP1G, FUNASBPP1Q**

Broad spectrum biorational fungicide. Controls major diseases in crops and non-crop markets. Both foliar and root uptake to control diseases. 20.40% Dipotassium phosphonate, 22.67% Dipotassium phosphate.

EPA registered systemic fungicide. Easy to use liquid formulation

Size: 1 gal or 1 qt

BotryStop

BotryStop is a biological fungicide for the control of Botrytis and Sclerotinia. Labeled for use on a wide variety of field or greenhouse grown vegetables, grapes and other small fruits. Also for use on ornamentals in the greenhouse or nursery.

Camelot-O (OMRI Listed)

Code: **FUNCAMPRO1G**

Camelot O is a liquid copper formulation with technology to provide broad-spectrum bacterial and fungal disease control on a wide variety of ornamental plants, greenhouse vegetable/herb crops and turfgrass. Camelot O is a uniquely patented formula of fixed copper with fatty acids to form a true soap providing performance advantages over other copper-based products.

Disease controlled: Bacterial Pathogens - Bacterial Blight, Bacterial Leaf Spot, Erwinia, Fire Blight, Psuedomonas, Xanthomonas.

Size: 1 gal

Clearys 3336

Code: **FUN33361Q**

Cleary 3336F Turf and Ornamental Systemic Fungicide prevents and controls turf diseases and the diseases of annual and perennial flowers, bedding plants, foliage plants, ground covers, and deciduous and evergreen trees and shrubs. This broad spectrum fungicide has preventative, curative, and systemic properties, making it a smart choice for commercial turf and ornamental applications. Drench, foliar drip, and spray applications can be made using 336F.

Size: 1 qt

CEASE®

Code: **BWCBF**

Controls of a wide array of both fungal and bacterial pathogens, while providing outstanding plant, human and environmental safety. CEASE controls disease using multi-site modes of action for superior resistance management, and leaves virtually no residues on plants or flowers. CEASE can be used on ornamentals (container or field), trees, shrubs, potted and cut flowers, annual and perennial bedding plants, tropical foliage plants, seedlings, conifers, covered vegetables.

CEASE can be used in the field, greenhouse, nurseries - open or enclosed, shade house environments, interiorscapes, seedling production sites, forest seedling production sites, agricultural, residential and commercial landscapes, and reforestation.

Size: 1 gal

Chlorothalonil 720 Select

Chlorothalonil 720 Select is effective on dollar spot, brown patch, leaf spot, melting out, brown blight, gray leaf spot, red thread, anthracnose, copper spot and rust stem. This is the solution for all your fungi needs because Chlorothalonil can treat and prevent fungi almost anywhere including golf courses, landscapes, turf sites, playgrounds, athletic fields and even sod farms.

Companion

Code: **FUNCOM1G & FUNCOM2.5G**

Use Companion on container, bench, or bench-grown ornamentals in greenhouses or outdoor nurseries, and on ornamentals grown for indoor and outdoor landscaping. Use as a drench during seeding and when transplanting. Companion is a concentrate liquid that can go through irrigation systems without agitation or concern for clogging or abrasion. Companion can be injected directly into irrigation lines at an injector ration of 1:400,000. Companion can also be diluted with water and other fertilizers, pesticides and technical materials.

Size: 1 gal; 2 1/2 gal

Double Nickel

Code: **FUNDN2.5G, FUNDN5LB**

Double Nickel is a broad spectrum preventive biofungicide for control or suppression of fungal and bacterial plant diseases. Double Nickel employs five modes of action, provides excellent control at low rates, has no resistance or residue issues and is OMRI listed for certified organic production.

Size: 2.5 gal or 5 lb



Eagle 20EW

Code: **DAEAG20PT**

Eagle® 20EW specialty fungicide provides excellent control of dollar spot and brown patch and is labeled for use on major turf varieties, landscape ornamentals, and backyard fruit trees and vines.

Size: 1 Pint

Fosphite

Code: **JHB06511G, JHB06512.5G**

For control of Phytophthora, Pythium, and Downy Mildew on food crops, turf, and ornamentals. Fosphite® is an effective systemic fungicide. It has been approved by the EPA as a 'Reduced Risk Pesticide'

Size: 1 gal, 2.5 gal

GreenClean

Code: **FUNZRO50LB**

GreenClean is a multi-purpose granular algaecide formulated to kill algae, scum and molds on contact. It works through a powerful oxidation reaction and can be used on floor surfaces (concrete, gravel or dirt) as well as in irrigation ponds for algae control.

Size: 50 lb

Mildew Cure

Code: **JHB02371G, JHB02372.5G**

For control of Powdery Mildew on many types of crops such as melons, squash, tomatoes, cucumbers, trees crops, grapes and flowers. Mildew Cure is an FIFRA 25b exempt fungicide (Rule 40 CFR 152.25).

Size: 1 gal, 2.5 gal

Millstop (OMRI Listed)

Code: **BWMS5P**

Curative control of powdery mildews: A potassium bicarbonate-based, foliar fungicide that kills powdery mildew on contact by pulling water from spores and their growing strands. It inhibits enzymes involved in fungal cell wall formation by altering the pH on the leaf surface, providing 1-2 wks of residual protection.

Size: 5 lb

Myclo 20 EW Select

Myclo 20EW Select is a systemic fungicide that can be applied to a wide variety of turf and ornamentals. While some fungicides merely prevent disease, Myclo 20EW Select delivers both curative and preventive properties. Myclo 20EW Select can also be used on home orchards, vineyards and fruit trees to control diseases such as Brown Rot, Powdery Mildew, Rusts and Scab.

OxiDate - Broad Spectrum (OMRI Listed)

Code: **FUNOXI2.5G**

OxiDate utilizes peroxygen chemistry formulation that is specifically labeled for agricultural field crops as well as Greenhouse productions and post harvest storages. The American farmer has a new tool in the fight against disease caused by micro-organisms that will not harm the environment or pose risks to human health and safety.

Size: 2.5 gal

P-Vent

Code: **FUNPVENT1KG, FUNPVENT.5LB, FUNPVENT1LB**

PVent Biofungicide is an enhancement in microbial fungicide technology, providing growers with an easy-to-use, versatile IPM tool. This innovative development was spearheaded through a strategic partnership between two family-owned businesses: BioSafe Systems and Lallemand Plant Care.

Size: 0.5 lb, 1 lb, 1 kg

Perpose Plus

Code: **FUNPP5G, FUNPP15G**

PERpose Plus™ is a treatment for the prevention and suppression/control of horticultural and agricultural diseases in commercial greenhouses, garden centers, landscapes, agricultural crops, nurseries, interiorscapes and professional turf care.

Size: 5 gal, 15 gal

Phyton 27

Code: **FUNPHY2OZ, FUNPHY8OZ, FUNPHY34OZ, FUNPHY1G**

PHYTON 27 Fungicide and germicide is a copper based product broad spectrum, contact product, designed to control mildews, leaf spots Xanthomonas and Psuedomonas, Phyton is a valuable weapon in your chemical arsenal.

Size: 2 oz, 8 oz, 34 oz, 1 gal

Procidic

Code: **FUNGPCIG**

Procidic is an agricultural bactericide and fungicide compound formulated to protect crops during all stages of growth. Procidic's ingredients allow crops to grow the healthy, natural way. It is rapidly absorbed into the plant and then moves toward its apex.

Size: 2.5 gal

Propiconazole SPC 14.3% Select

Nufarm Propiconazole SPC 14.3 MEC Fungicide provides excellent preventive, systemic activity against many of the worst diseases in turf, including anthracnose, brown patch, dollar spot, and Fusarium. In ornamentals and trees, Nufarm Propiconazole SPC 14.3 MEC controls powdery mildews, rusts, leafspots, scabs, and blights.

Size 1 gal

Regalia CG

Code: **FUNREGCG1Q, FUNREGCG1G**

REGALIA® advanced biofungicides activate a plant's natural defenses to protect against a variety of fungal and bacterial diseases, resulting in higher quality AND yields. REGALIA® products are active against both soilborne and foliar pathogens, delay the development of resistance, and help minimize chemical residues.

Size: 50 lb

Safer Garden Fungicide

Code: **55704141**

Safer® Brand Garden Fungicide controls and prevents the spread of fungal diseases, including powdery mildew, black spot, leaf spot and rust, in plants. Simply mix this economical concentrate with water as directed to make up to 4 gallons of solution. Garden Fungicide works to create an environment that is not optimal for the fungus to grow and spread, therefore stopping the disease from further attacking the plant.

Size 16 oz

Sanidate 5.0 (OMRI Listed)

Code: **FUNSAN2.5G**

Keep your post harvest equipment and fruits and vegetables free of disease with SaniDate 5.0's time-tested activated peroxide chemistry. SaniDate 5.0 is broadly labeled for hard surface sanitization and disinfection, as well as fruit and vegetable wash treatments to eliminate human health and plant spoilage pathogens on contact.

Size 2.5 gal



Sanidate 12.0 (OMRI Listed)

Code: **FUNSAN122.5G**

SaniDate 12.0 MicroBiocide controls and prevents the growth of microorganisms including algae, bacteria, and fungi. Designed specifically for water treatment through irrigation, SaniDate 12.0 is optimal for growers who utilize re-circulating water systems, such as ebb and flow or trough systems, that generate high volumes of recycled water. These large volumes of recycled water can increase chemical costs, but with SaniDate 12.0's higher dilution rates, costs remain controlled. OMRI Certified

Size 2.5 gal

Soilgard 12g (OMRI Listed)

Code: **INSSG12G**

G. virens, the active ingredient in SoilGard 12G is a naturally occurring soil fungus, which is antagonistic to plant pathogenic fungi such as *Pythium* and *Rhizoctonia*, thereby aiding in control of these damping off and root rot pathogens. SoilGard 12G acts as a preventative and will protect non-infected plants.

Size 5 Lb.

Strike 50WDG

Code: **FUNSTR.5P**

The systemic action of Strike gives you the ability to control, as well as prevent, many important fungal diseases on ornamental plants in greenhouses and nurseries. Strike® Plus 50 WDG is a combination of 2 systemic fungicides that control or prevent many fungal diseases on ornamental plants in the greenhouse, garden center and nurseries. Diseases controlled include Anthracnose, black spot, leaf spot, powdery mildew, rust, scab and other diseases.

Size 1/2 lb

Subdue-Max

Code: **FUNSUB1Q**

Subdue is a systemic fungicide for use in container bench and bed grown ornamentals in greenhouse or outdoor nurseries for control of damping off and root and stem diseases caused by *Pythium* and *Phytophthora*. May be used as soil drench on soil mix on ornamentals at time of seeding or transplanting. Enables easy mixing and less equipment wear due to its microemulsion concentrate formulation, minimizes development of insensitive strains of fungi, and helps reduce disruption on the course and to home owners with odorless technology.

Size: 1 qt

T-Methyl E-Pro (Generic for Cleary's 3336)

Code: **NFTMEPRO4X8OZ (2#), NFTMYTHL2.5G (2.5 gal)**

Turf and ornamental fungicide in water soluble bags. For prevention and control of Dollar Spot, Copper Spot, Brown Patch, Red Thread, Anthracnose, Fusarium Blight, Leaf Spot, and Stripe Smut on line turf applications. For disease control on Roses, Flowers, Ornamentals and Shade Trees. Recommended by state universities as an ideal substitute for Benomyl.

Size: Flowable: 2.5 gal; Wettable Powder: 2 lb.

TM + IP SPC

Code: **NFTMCTN665LB**

With its contact and systemic activity, you will see fast results, while long residual control can mean fewer applications per season. This broad-spectrum premix controls nearly every major fungal disease in ornamental, non-residential turf and golf course settings, including botrytis, brown patch, dollar spot, black spot, and fusarium, plus many more.

Size: 1 gal

Triathalon BA (OMRI Listed)

Code: **FUNTRIBA1G**

Triathlon BA is an OMRI listed broad-spectrum preventative biofungicide and bactericide for use on a wide variety of ornamentals, fruits, vegetables and herbs grown in greenhouses, nursery and shade houses. Triathlon BA also colonizes plant root hairs, preventing establishment of disease-causing fungi and bacteria.

Size: 3 oz

Trinity TR (BASF)

Code: **BASFTTR3OZ**

Trinity TR total release fungicide provides broad spectrum control of several key diseases such as: *Alternaria* spp., *Botrytis* spp., *Cylindrocladium* spp., *Fusarium* spp., *Myrothecium* spp., and *Rhizoctonia* spp. Trinity TR total release fungicide is a foliar applied product and will not control soil-borne pathogens that infect below the soil surface.

Size: 3 oz

Truban 25% EC

Code: **FUNTRU1Q**

A liquid formulation which has the same qualities as the wettable powder but eliminates all problems of setting out and does not require agitation. For use through watering systems and proportioners.

Size: 1 qt

Truban 30% WP

Code: **FUNTRU2P**

Truban is a soil fungicide for control of damping-off root and stem rot diseases caused by *Pythium* and *Phytophthora* on bedding and container grown crops.

Size: 2 lb

X-3

Code: **FUNX396OZ**

X-3® is the most cost-effective AND efficient disinfectant/sanitation/disease control product you can buy. The triple-powered broad spectrum formula of X-3 kills bacteria, fungus and algae – and costs less per application than competitive products. X-3 is highly concentrated for superior results at higher dilution ratios. Bottom line, X-3 boosts your profit margins by reducing plant loss while costing less in use.

Size: 96 oz

ZeroTol

Code: **FUNZRO2.5G, FUNZRO30G**

ZeroTol is a revolutionary horticultural technology that offers a new tool in the deterrence of horticultural diseases caused by microorganisms and their spores. When used as an ongoing preventative program, ZeroTol can help clean your facility and plants of problems associated with phytopathogenic organisms. ZeroTol is a non-toxic fungicide/bactericide/viricide that functions differently than other products. Instead of coating plant tissues with chemical toxins, ZeroTol oxidizes fungi (including spores), bacteria and viruses on contact thereby preventing infection. Leaves no residue.

Size: 2.5 gal, 30 gal

Zyban

Code: **FUNZYB6OZ**

A broad spectrum systemic-contact fungicide. Controls Anthracnose, flower and petal Blight and Botrytis Blight.

Size: 6 oz



HERBICIDES

AXXE

Code: **HERAXXE2.5G**

AXXE Broad Spectrum Herbicide is a non-selective, weed control for grasses and broadleaf weeds. It is formulated to deliver maximum performance and provide fast-acting results on a long list of weeds and grasses, as well as most mosses and lichens. This product is an herbicidal soap product comprised of a form of ammoniated pelargonic salts.

Size: 2.5 gal

Broadstar

Code: **HERVALBS50P**

If your herbicide keeps causing callbacks, you should switch and treat your trees and shrubs with the longest residual on the market in BroadStar Herbicide. BroadStar is an odorless and dust-free granular preemergence herbicide that eliminates a broad spectrum of annual broadleaf and grassy weeds such as spurge, bittercress, oxalis, common groundsel and crabgrass.

Size: 50 lb

Garlon 4 Ultra

Code: **HERG4U2.5G**

Vegetation managers and foresters rely on Garlon® 4 Ultra specialty herbicide to control unwanted weeds, brush and trees beneath electrical power lines; along railroad beds, roadsides and pipelines; and in commercial forestry and wildlife openings, including grazed areas on these sites.

Size: 2.5 gal

Gemini Herbicide

Code: **E95224**

Gemini 3.7 SC Pre-emergent Herbicide 2.5 Gal featuring a selective combination of two active ingredients as proflaminate plus isoxaben such as Barricade and Gallery creates a uniform and prolonged herbicide barrier on over 500 crops. It can be applied over the top of many crops, including shrubs and perennials with low potential phytotoxicity & good crop tolerance – now labeled safe on over 500 crops!

Size: 2.5 gal

Jewel

Code: **HERJEWEL50P**

Jewel™ Pre-Emergent Herbicide provides great flexibility in your chemical rotation and is a welcome relief to your budget. Jewel is labeled for many crop species and woody ornamentals, as well as many perennials. For lasting control with a low application rate (100 lbs/acre), experience the value of Jewel. Jewel Herbicide is a granular herbicide with a combination of two active ingredients designed to control a broad spectrum of weeds.

Size: 50 lb

OH2

Code: **HERORNII50P**

Get broad spectrum pre-emergent weed control for your container and field grown ornamentals. OH2® herbicide controls a long list of grassy and broadleaf weeds, including the toughest species like spurge. Only from Scotts.

Size: 50 lb

ProDeuce

Code: **NFPRODEUCE64OZ**

ProDeuce is a dual action herbicide that combines the pre-emergent, residual activity of proflaminate, with the non-selective, contact control of glyphosate. ProDeuce is intended for landscape and grounds managers, as well as lawn care operators to help alleviate multiple chemical and mechanical weeding applications throughout the growing season. Customers using ProDeuce save time and labor, while benefiting from reduced damage to plant material and fewer hard scrapes caused by mechanical trimmers.

Size: 64 oz

Razor Burn (Glyphosate and Diquat)

Code: **NFHRB1G**

Razor Burn is a post-emergent, systemic herbicide that is generally non-selective and gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees. Razor Burn is a great product for situations where mechanical efforts are not suitable or other herbicides don't provide the speedy visual results. Controls weeds quickly and easily in ornamentals, bed maint, crack treatments, brush clearing and perimeter treatments.

Size: 1 gal

Razor Pro (Glyphosate)

Code: **HERTPRO1G, HERTPRO2.5G, HERTPRO30G**

Controls Bermuda grass, Bindweed, Canada Thistle, Johnson grass, Hemp Dogbane and many annual weeds. Roundup is a foliar applied, non selective broad spectrum herbicide. Also controls brush such as Willow, Multiflora rose, Honeysuckle and Kudzu. Non volatile and shows no residual soil activity. Application is with conventional equipment as well as different wipers and spot sprayers.

Size: 1 gal, 2.5 gal, 30 gal

Supress (OMRI Listed)

Code: **HERSUP2.5G**

Suppress® Herbicide EC is a non-selective, post-emergent, foliar herbicide for use in and around all food and non-food crop areas. It can also be used in non-agricultural and industrial use sites. Suppress® Herbicide EC works best on newly emerged weeds. Use at a 3% concentration for young annual weeds.

Size: 2.5 gal

Surflan / Prozalin / Orzalin

Code: **HERSUR2.5G**

Preemergent surface application selective herbicide for use with field ornamentals to control broad leaf weeds and annual grasses. Does not control established weeds.

Size: 2.5 gal

Weed Zap

Code: **JHB02391G, JHB02392.5G**

Weed Zap is an all natural non-selective herbicide. Weed Zap “zaps” small broad leaf and grassy weeds. It's natural ingredients will eliminate plants that are six inches in height or less. Weed Zap is a broad spectrum herbicide suitable for organic production.

Size: 1 gal, 2.5 gal



INSECTICIDES

Acephate E 75 (Orthene)

Code: **NFACP751P**

For more than 25 years, industry professionals have depended on acephate, the active ingredient in Acephate E 75 Insecticide, for excellent, broad-spectrum control of more than 40 insect pests. Packaged in a convenient shaker can, Acephate E 75 Insecticide works both systemically and on contact to offer outstanding performance and reliability.

Size: 1 lb

Ancora

Ancora Microbial Insecticide is a naturally-occurring fungus that infects both foliage and soil dwelling insects such as whiteflies, aphids, thrips, weevils, psyllids, leafminers, spider mites, mealybugs, and other pests. Ancora is registered by the EPA and is labeled for use in the greenhouse, nursery, landscape and turf markets.

Size: 1 lb

Attain TR

Code: **WRL09-1820**

Attain® TR Micro Total Release Insecticide is a ready-to-use, ultra-low-volume insecticide fogger that controls a variety of greenhouse insect pests, including aphids, fungus gnats, mealybugs, mites, thrips and whiteflies, along with several other secondary insect pests.

Size: 2 oz

Avid

Code: **INSAVID1Q**

A standard insecticide/miticide for mite and leafminer control that is the top choice by growers. One of the most widely used miticides/insecticides for control of both mites and leafminers. Avid®, an industry-leading miticide/insecticide, controls mites and leafminers and provides suppression of aphids, thrips and whiteflies.

Size: 1 qt

Azaguard (OMRI Listed)

Code: **INSAZA1G, INSAZA1Q**

AzaGuard is a 3% Azadirachtin formulated Insect Growth Regulator (IGR) that offers broad spectrum insecticidal control on over 300 insect species. AzaGuard prevents molting between larval, pupal and nymphal stages and also repels insects in treated areas, reducing insect infestations in/around the facility.

Size: 1 gal, 1 qt

Azamax

Code: **55724464, 55724470, 55724475, 55724477**

A standard insecticide/miticide for mite and leafminer control that is the top choice by growers. One of the most widely used miticides/insecticides for control of both mites and leafminers. Avid®, an industry-leading miticide/insecticide, controls mites and leafminers and provides suppression of aphids, thrips and whiteflies.

Size: 4 oz, 16 oz, 1 qt, 1 gal

Azasol

Code: **55704981**

AzaSol is a pale yellow/white, amorphous powder containing 6% by weight azadirachtin. It will instantly dissolve in water to give a solution that is ready for spray applications for pest control. Non-Oil based and highly effective as a powder.

Size: Single Pack (0.75 oz)

Azeca

Code: **INSAVID1Q**

A standard insecticide/miticide for mite and leafminer control that is the top choice by growers. One of the most widely used miticides/insecticides for control of both mites and leafminers. Avid®, an industry-leading miticide/insecticide, controls mites and leafminers and provides suppression of aphids, thrips and whiteflies.

Size: 1 gal

Beethoven TR

Code: **WRL04-947**

Beethoven TR Total Release Miticide/Insecticide, with the active ingredient etoxazole, is a new total release aerosol from BASF. It provides control of mites, including the two-spotted spider mite, and suppresses whiteflies. In addition, Beethoven TR Total Release Miticide/Insecticide offers quick and easy application, thorough coverage, excellent plant safety and flexible re-entry times.

Size: 2 oz

BioCeres

Code: **BSBC1LB**

BioCeres WP is an insect-pathogenic bio-insecticide using the *Beauveria bassiana* fungus. The OMRI listed ANT-03 strain is approved for organic production and is perfectly suited in IPM programs, in a tank mix with other pesticides as well as specific, stand-alone use. BioCeres WP is used for the biological control of numerous pests including whiteflies, aphids and thrips by adhering to and penetrating the insect's exoskeleton, causing death. It can be used in a wide range of crops as well as ornamental plants and edibles.

Size: 1 lb

Botaniguard ES and Botaniguard WP

Code: **INSBOT1G, INSBOT1Q, INSBOTWP22**

Biological insecticide used to control whitefly, thrips, aphids, and many other soft-bodied insects in greenhouse and field crops. Based on the highly successful fungus, *Beauveria bassiana*, strain GHA, it controls the most troublesome crop pests – even resistant strains. Because of BotaniGard's superior formulation, higher spore concentration, high viability and proven performance, it outperforms other *Beauveria*-containing products. When properly applied, BotaniGard's insect control can equal or exceed that of chemical insecticides.

Size: 1 gal, 1 qt, 1 lb WP



Botanigard Maxx

Code: **INSBOTM1Q, INSBOTM1G, INSBOTM2.5G**

Beethoven TR Total Release Miticide/Insecticide, with the active ingredient etoxazole, is a new total release aerosol from BASF. It provides control of mites, including the two-spotted spider mite, and suppresses whiteflies. In addition, Beethoven TR Total Release Miticide/Insecticide offers quick and easy application, thorough coverage, excellent plant safety and flexible re-entry times.

Size: 1 qt, 1 gal, 2.5 gal

Brandt Ecotec Plus (OMRI Listed)

Code: **INSBRP2.5G**

Brandt Ecotec Plus offers sustainable organic insect and mite control in a powerful, oil-based formula. It works quickly and effectively to coat and suffocate pests on contact and continues to act as a repellent after the contacted insects have died. This dual mode of action provides control for all stages of insect development. For full effectiveness, spray Brandt Ecotec Plus when pests first appear and apply repeatedly.

Size: 2.5 gal

Captiva

Code: **INSCAP1Q**

Captiva® is a bio-insecticide formulated using concentrated plant extracts which are active against Thrips and Spider Mites. Captiva agitates and excites thrips and mites, forcing them out of their sheltered hiding spots. As a stand-alone product, Captiva has repellency, anti-feeding, and anti-oviposition properties.

Size: 1 qt

Carbaryl / Sevin

Code: **INSCAR2.5G or INSSEVSL2.5G**

Carbaryl (Sevin) Insecticide is a suspension of microfine Carbaryl Insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied by air or ground. Labelled for a wide range of insects. Normal rate for trees and ornamentals is 1-2 quarts per 100 gallons. (1/2-1 fluid ounces per gallon).

Size: 2.5 gal

Conserve

Code: **FUNCON1Q**

Conserve is a new pesticide designed to control western flower thrips and spider mites in greenhouses. Conserve is safe to use 4 hr. REI. It is recommended Conserve be used no more than 10 times in a 12 month period. Not for use on vegetables.

Size: 1 qt

Crymax

Code: **INSCM5P**

Captiva agitates and excites thrips and mites, forcing them out of their sheltered hiding spots. As a stand-alone product, Captiva has repellency, anti-feeding, and anti-oviposition properties. Crymax is a genetically engineered strain of Bt containing toxins from both Bt kurstaki and Bt aizawai strains.

Size: 5 lb

DES-X

Code: **INSDEX2.5G**

DES-X insecticidal soap concentrate is a bioinsecticide that controls insect and mite pests on contact. It contains specially selected fatty acid salts (soaps) that penetrate the body of pests and results in rapid death. DES-X kills pests by disrupting membrane and cellular function

Size: 2.5 gal

Dipel (OMRI Listed)

Code: **INSDIP5P, INSVLDP1P**

DiPel, available in an emulsifiable suspension (ES) as well as a dry flowable (DF) formulation, is registered on more than 200 different crops, including vegetable and fruit crops, row crops and even specialty crops and berries. Its highly selective active ingredient makes the product fatal to more than 55 species of worm (lepidopteran) pests without harming humans, beneficial insects, birds, fish or wildlife. Plus, DiPel has a four-hour Restricted Entry Interval (REI), the lowest allowed by law.

Size: 1 lb, 5 lb

Endeavor

Code: **INSEND15OZ**

Endeavor insecticide belongs to a new class of chemistry that safely eliminates sap-sucking aphids and whiteflies with its unique mode of action. As the aphid begins to “tap” into a plant treated with Endeavor, its sucking mechanism is immediately and irreversibly paralyzed—the aphid pulls out its stylets. With no harm to beneficial insects or mites, and no further harm to the plants, the aphid dies within 2 to 4 days.

Size: 15 oz.

Enstar II (Insect Growth Regulator)

Code: **INSENS5OZ**

Product does not provide a kill but interferes with the insects development inducing no regeneration. Controls Whiteflies, Aphids, soft bodied and armored Scales, Mealybugs and Fungus Gnats.

Phytotoxicity: Some injury to Poinsettias, Roses in full bloom and Ferns. Not recommended for use during bloom on greenhouse ornamentals.

Size: 5 oz.

Entrust

Code: **INSENTSC1Q**

Entrust® SC Naturalyte® insect control, listed by the Organic Materials Review Institute (OMRI) for use in organic production, provides the performance organic growers have come to trust, but in a liquid formulation. Produced through the fermentation of a naturally occurring soil bacterium, spinosad.

Size: 1 qt

EverGreen® Crop Protection 60-6

Code: **HAEG1QT**

EverGreen® Crop Protection uses pyrethrins synergized with piperonyl butoxide (PBO), which allow more insecticide to reach the target site in the insect's nervous system.

Fast, effective knockdown and kill - EverGreen is a contact insecticide that delivers fast kill and quick results when applied alone or tank mixed.

Size: 1 qt

EverGreen® 5% Organic

Conserve is a new pesticide designed to control western flower thrips and spider mites in greenhouses. Conserve is safe to use 4 hr. REI. It is recommended Conserve be used no more than 10 times in a 12 month period. Not for use on vegetables.

Forbid 4F

Code: **INSFORBID**

Forbid 4 F offers outstanding knockdown and residual control of mites and all stages of whiteflies for four to eight weeks. Thanks to its novel mode of action, foliar-applied Forbid 4 F offers growers an effective tool for management of mites resistant to conventional products.

Size: 1 qt



GC Mite

Code: **JHB02181G, JHB02182.5G**

For control of various mites and insects on many types of crops such as melons, squash, tomatoes, tree crops, grapes, cucumbers and all sorts of flowers. GC-Mite™ is a FIFRA 25b exempt pesticide (Rule 40 CFR 152.25). GC-Mite™ has shown the ability in independent, replicated field and greenhouse trials to control mite populations for 3-4 weeks with a 1% spray solution.

Size: 1 gal, 2.5 gal

Gnatrol (OMRI Listed)

Code: **INSVALGNA16P**

Gnatrol is a highly selective, biological larvicide for use in greenhouses to control fungus gnat larvae. It may be used on a wide variety of ornamentals, as well as all bulb crops, bedding plants and vegetable sets. Once the larvae have ingested Gnatrol, they become paralyzed, stop feeding immediately and die—usually within 24 hours.

Size: 16 lb

Grandevo

Code: **INSGRANCG1LB, INSGRWG10LB, INSGRDWDG6LB**

Grandevo® is a microbial-based insecticide. Grandevo contains several active compounds that repel, stop feeding, reduce reproduction and induce mortality to prevent the development of damaging populations of sucking and chewing insects, flies and mites. Grandevo can be used on a wide range of crops, including fruits, vegetables, nuts and turf and ornamentals.

Size: 1 lb, 10 lb, 6 lb

IC3 OIL

Code: **INSIC31G, INSIC31Q**

Featuring active ingredients derived from essential oils, Essentria® IC-3 is an environmentally friendly pest control solution. The natural liquid insecticide provides immediate knockdown and long residual control of insects. Zoëcon's Essentria® IC-3 Insecticide offers sensitive pest control, with a target-specific mode of action.

Size: 1 gal, 1 qt

ImiGold

Code: **INSIG27.5OZ**

ImiGold 2F is a liquid insecticide containing the active ingredient imidacloprid. It is effective on many insect pests, including grub control in turf. It is also labeled for use on ornamentals, as a termiticide and for use in poultry facilities. The product sizes are pre-measured for to make a 100 gallon spray solution (27.5 fl. oz.) or a 1,000 gallon spray solution (2.15 gallons).

Size: 27.5 oz

Javelin WG

Code: **INSJAU5P**

One of the most recognized brand names ever sold. Javelin WG contains a naturally occurring Bt kurstaki strain that offers broad spectrum control of mixed worm populations in tree and vegetable crops.

Size: 5 lb

Kontos

Code: **OHPKONTOS150ML**

Kontos is a systemic insecticide from the tetramic acid class of chemistry (MOA Group 23). Kontos can be applied as a foliar spray or drench and controls a number of major sucking insect and mite pests, including adelgids, aphids, leafhoppers, mealybugs, psyllids, spider mites, spittlebugs and whiteflies. Kontos is both xylem and phloem active.

Size: 250 ml

Kopa

Code: **INSK2.5G**

Kopa™ insecticidal soap is a potassium salt of fatty acid soap that controls insects, mites and powdery mildew. Kopa can be used for organic production.

Size: 2.5 gal

M-Pede Insecticidal Soap

Code: **SAC1202**

An effective contact insecticide made from naturally occurring biodegradable fatty acids. Ideal for use in parks, restaurants, hospitals, schools and malls. M-Pede Insecticidal Soap is an all purpose insecticide.

Size: 2.5 gal

Mallet 2F (Generic for Marathon 2F)

Code: **NFMANTRAEPRO1Q**

Fast knockdown and long lasting control of sucking and piercing insects on ornamentals. Imidacloprid.

Size: 1 qt (also available in 1 gallon upon request)

Mallet 75WSP (Generic for Merit 75WP)

Code: **NFMALLET75WSP**

For use ornamentals for commercial or residential landscapes and interior plantscapes. Merit 75WP is a systemic product and is translocated upward in the plant. Merit WP is very effective on Aphids, Mealybugs, Thrip and Whitefly.

Size: 1.6 oz.

Mantra 1G (Generic for Marathon 1%)

Code: **NFMANTRA5P, NFMANTRA500P**

- Highly systemic • Long lasting residual activity
- Highly effective against Whitefly, Aphids, Mealybugs and other pests.
- Approved for use in greenhouse/nursery production locations.

Size: 5 lb., 50 lb.

Minx 2 (Biological Bacterial Waste)

Code: **INSMINX1Q**

Minx™ 2 Insecticide delivers quick and easy broad-spectrum mite and leafminer control in a new low volatile organic compound (VOC), water-based formula. It also works to suppress aphids, whiteflies and thrips. Compared to many other abamectin products, Minx 2 offers added application flexibility and comfort.

Size: 1 qt

Mycotrol ESO (OMRI Listed)

Code: **INSMYCONPO1LB**

If you have a certified organic grow operation and must follow the strict guidelines for pest management, Mycotrol is the organic formulation mycoinsecticide of Botanigard. The product contains the spores of a fungus, *Beauveria bassiana* strain GHA 11.3%. The mode of action is not like any other traditional insecticide. The applied spores infect the outside of the insect's cuticle, adheres to the host insect and eventually penetrates the skin, and grows inside the insect, killing it.

Size: 1 lb

Orthene TR

Code: **WRL09-1321**

1300 Orthene® TR Micro Total Release Insecticide is one of today's most effective and widely used ornamentals insecticides. A ready-to-use, ultra-low-volume insecticide fogger, Orthene controls a wide variety of greenhouse insect pests. The active ingredient, is an organophosphate class insecticide, one of today's most effective and widely used ornamental insecticides.

Size: 2 oz



Overture

Code: **INSVALOVER2OZ-8**

There's a new Overture and it's killing thrips. The unique mode of action fights resistance and controls thrips at all life stages—including tough western flower thrips—while also controlling lepidopterous insects. Overture Insecticide is a great rotation partner for your greenhouse, and it's safe on most beneficial insects, too.

Size: Eight 2 oz packets

Pyganic 1.4 and 5.0 (OMRI Listed)

Code: **INSPYG1.41Q, INSPYG5.01G**

PyGanic® Crop Protection is an organically-compliant, broad-spectrum contact insecticide. Stop damage fast - PyGanic delivers quick knockdown and control of crop-damaging insects. Flexible - No pre-harvest interval Organically compliant - PyGanic is OMRI® listed and meets the USDA's NOP requirements for an input. Broad Spectrum.

Size: 1 qt

Pylon

Code: **INSPPYL1P**

Pylon works as a contact and ingestion miticide by interrupting energy production. The material has translaminar activity, which means that the material penetrates leaf tissues and forms a reservoir of active ingredient within the leaf. This provides residual activity against certain foliar-feeding insects and mites. Pylon is labeled for mites (two spotted spider, broad, and cyclamen mites) and caterpillars.

Sizes: 1 pint

Pylon TR

Code: **BASFPYTR2OZ**

Featuring an exclusive aerosol delivery system, Pylon® TR total release insecticide provides superior control of thrips, mites and other nuisance pests in commercial greenhouses and fully enclosed garden centers. This ultra-low-volume fogger insecticide is used on bedding plants, flowering hanging baskets, foliage, potted flowering plants, fruiting vegetables and ornamentals.

Size: 2 oz

Pyrethrum

Code: **WRL09-1120TR**

Pyrethrum TR Total Release Insecticide is a ready-to-use, ultra-low-volume fogger designed to effectively control a wide variety of greenhouse insects, including aphids, fungus gnats, mites and whiteflies, as well as numerous secondary insect pests.

Size: 2 oz

Safari

Code: **INSVALSAF3P**

Safari Insecticide, a super-systemic insecticide with quick uptake and knockdown, controls a broad spectrum of ferocious and invasive pests, including Q- and B-biotype whitefly, Hemlock woolly adelgid, emerald ash borer, mealybug, mountain pine beetle 2(ee), leafminer, fungus gnat, black vine weevil, glassy-winged sharpshooter, armored and soft scale and lacebug.

Sizes: 3 lb

Savate

Code: **INSJUDO8OZ**

Savate® provides excellent knockdown and residual control of all stages of mites and whiteflies. Effective on all life stages of mites and whiteflies, including eggs and immature stages. Mite species controlled include: Tetranychid mites, Tarsonemid mites, Tenuipalpid mites and Eriophyid mites.

Size: 8 oz

Sevin Granular (Bait)

Code: **INSSEV50LB**

Easy-to-use Sevin® Insect Killer Granules kill more than 100 insect pests by contact in lawns, home perimeters, and ornamental and edible gardens. Broadcast the granules at recommended rates to provide uniform coverage, and then water thoroughly to release the active ingredient. The granules reach insect pests where they hide, above and below the surface, and keep on killing pests for up to three months.

Size: 50 lb

Shuttle O

Code: **INSSHUTO1P**

Shuttle O miticide is the first product from the naphthoquinone derivative class of chemistry. Shuttle O is an excellent choice as a rotational tool for control of two-spotted spider mites, spruce spider mites and other mites.

Size: 1 lb

SIL Matrix

Code: **INSSILM2.5G**

Sil-MATRIX introduces a novel active ingredient—soluble silica—to crop protection. When spray applied, it controls the mites and insects it contacts suppressing their populations. Sil-MATRIX also forms a physical barrier within the leaf cuticle that prevents penetration of fungal diseases, primarily powdery mildew.

Size: 2.5 gal

Sirocco

Code: **INSSIR0802**

Sirocco provides quick knockdown and long residual control of a wide variety of insects and pests such as thrips and mites. Sirocco may be used in greenhouse, shadehouses, nurseries (including Christmas tree / conifer plantations), landscapes and interiorscapes.

Size: 250 ml

Spear-T

Code: **INSS1G**

Spear-T is a bioinsecticide for treatment of thrips, whiteflies, two spotted spider mites and broad mites in vegetables and ornamentals in greenhouses. Field trials of Spear-T demonstrate that results are equivalent or superior to conventional control chemicals.

Size: 1 gal

Sucrashield (OMRI Listed)

Code: **INSSS1G**

SucraShield Insecticide/Miticide provides fast and sure biochemical control on a wide range of soft-bodied problem pests in the Greenhouse and Nursery as well as Fruits, Nuts, Mushrooms and Vegetables.

Sizes: 1 gal

SuffOil-X (OMRI Listed)

Code: **INSUFFOILX1G**

SuffOil-X is a unique concentrate of pre-emulsified, highly refined, high paraffinic, low aromatic oil. Its pre-emulsification process breaks down the oil particle to 1/14th its original size before emulsifiers are added. The small oil droplets assure that a very thin, uniform coating of oil is applied to the plant, which effectively smothers and kills pests while maintaining plant safety.

Sizes: 1 gal



Talstar-P

Code: **INSTAL1Q**

Flexible and powerful, Talstar Professional is ideal for lawn, landscape and perimeter jobs and is compatible with herbicides, fungicides, other insecticides and liquid fertilizers. Talstar provides long-lasting, broad-spectrum control of the toughest lawn and ornamental pests, including billbugs, chinch bugs, fleas, ticks, mites and all species of lawn ants routinely targeted by lawn care operators. Whether you're up against Argentine ants, big-headed ants, carpenter ants, odorous house ants, white-footed ants or even fire ants, Talstar Professional will help you achieve complete and long-lasting control.

Sizes: 1 qt

Tame Orthene

Code: **WRL09-TAMEGRT**

Tame/Orthene TR Total Release Insecticide comes as a ready-to-use, ultra low-volume insecticide fogger that controls a broad spectrum of greenhouse insects, including mites. Tame/Orthene TR provides a dry application of active ingredient. The active ingredients are a combination of fenpropathrin and acephate. Acephate is an organophosphate class insecticide, one of today's most effective and widely used ornamental insecticides, and fenpropathrin is a pyrethroid.

Size: 16 oz

Tersus

Code: **INSTER5.01G**

For growers who want fast, consistent on-contact knockdown and control on virtually any crop for the day of the harvest, Tersus® Insecticide delivers rapid results. The active ingredient in Tersus is pyrethrins, a botanical insecticide that is nonpersistent in the environment, and controls a broad spectrum of insects such as aphids, thrips, lygus, leafhoppers and many more.

Size: 1 gal

Tetresan

Code: **INSVALTS1P**

With contact and translaminar movement, TetraSan controls spider mites on the underside of leaves, even when it's difficult to get good under-leaf spray coverage. TetraSan has a unique mode of action, offers residual control up to five weeks and is safe to most beneficials.

Sizes: 1 lb

Venerate CG & XC

Code: **INSVENGC1Q, INSVENGC1G, INSVENXC2.5G**

Venerate® CG advanced Bioinsecticide features multiple modes of action and is effective against a wide variety of chewing and sucking insects and mites yet easy on beneficials.

With an MRL tolerance exemption, a zero-day pre-harvest interval, and no limit on the number of applications, Venerate XC can help you meet your customers' desire for residue-free crops and produce.

Size: 1 qt, 1 gal, 2.5 gal

Xentari

Code: **INSZENT1LB**

XenTari® is the world's only biological insecticide containing a natural, potent strain (ABTS-1857) of the microorganism *Bacillus thuringiensis* subspecies *aizawai* (Bta). It controls caterpillar pests on vegetables, fruits, nuts, row crops, and turf (specific registrations vary by country).

Size: 1 lb





GROWTH REGULANTS & ROOTING HORMONES

A-Rest

Code: **FAAr1QT**

A-Rest Plant Growth Regulator is the tried and true PGR for plugs, transplants, bedding plants, and perennials. A-Rest provides just the right amount of growth regulation. Gentle enough on tender plugs and transplants yet strong enough to adequately regulate perennials. A-Rest reduces internode elongation resulting in a more compact plant with darker green leaves. A-Rest has no adverse effects to flowers including no flower delay, no residue, and no phytotoxicity.

Size: 1 qt

Armory

Code: **BSA1LB**

Armory is a high concentration of several select beneficial plant bacteria. These powerful species of Bacillus are all scientifically proven plant growth, yield and vigor promoting bacteria, each with its own unique function that compliments the entire group and provides maximum aid to the plant. In addition, Armory's superior formulation maximizes the benefits of the combined strains providing plants consistent performance.

Size: 1 lb

Axiom

Code: **RXGA2OX, RXGA3X2G**

Boosts overall growth and production. AXIOM is a Plant Health Promoter and Growth Stimulator that activates a plant's defense system resulting in improved plant growth and increased yields. Harpin Proteins are produced in nature by certain bacteria. Plants develop receptors on their foliage to detect the presence of Harpin Proteins which leads to increased plant yields and health. AXIOM has multi-year University and field-tested results on a vast array of different crops and ornamentals.

Size: 2 oz, 3x2 gram

B-Nine

Code: **GRB95LB**

B-Nine WSG reduces plant height in ornamental plants by reducing internode length. Other benefits include a deeper green color and reduced breakage during shipping. B-Nine WSG when applied to plant foliage is absorbed into the leaf, moves within the plant to the growing points to reduce internode elongation. On certain crops a tank mix of B-Nine WSG plus Cycocel can provide a synergistic effect that results in enhanced activity. An example is 1250 PPM of B-Nine WSG and 1250 PPM of Cycocel for moderate height control in finishing bedding plants.

Size: 5 lb

Bio-Tam 2.0

Code: **FUNBIOTAM5LB**

Bio-Tam® 2.0 is a biorational fungicide providing outstanding disease protection in vegetable crops. BioTam® 2.0 contains two distinct natural strains of disease-killing microbes – Trichoderma asperellum and Trichoderma gamsii – both of which are effective in a broad range of temperatures and humidity.

Size: 5 lb

Bonzi

Code: **GRBZ1Q, GRBZ1G, GRBZ2.5G**

Bonzi® plant growth regulator ensures plants stay compact and beautiful to keep them at their peak longer for increased profitability. It keeps plants uniformly compact and strong by reducing internode stretch, it can be used on a wide variety of bedding plants, bulb crops, annual and perennial plants, herbaceous and woody ornamentals, and it can be applied as a single spray, drench, or preplant bulb soak and provides an excellent margin of safety at all stages of development.

Size: 1 qt, 1 gal, 2.5 gal

Citadel

Code: **FACIT1G**

Citadel provides effective PGR activity on a broad range of containerized crops, such as poinsettia, geraniums, azaleas, hibiscus, bedding plants and other herbaceous and woody ornamentals. By inhibiting the biosynthesis of gibberellins, Citadel reduces plant height by limiting internode elongation. Citadel can be applied alone or tank-mixed with other plant growth regulators such as Dazide 85 WSG to produce higher-quality plants.

Size: 1 gal

Clonex Rooting Gel

Code: **SS726007**

Clonex Rooting Gel is a high performance, water-based, rooting gel developed by Growth Technology™ Ltd. It is a tenacious gel which will remain in contact around the stem, actually sealing the cut tissue and then supplying the hormones needed to promote root cell development. It is manufactured under strict pharmaceutical laboratory conditions and is, consequently, years ahead of old fashioned hormones and powders.

Size: 1 qt

Configure

Code: **FACON.5G**

As the only pure 6-BA PGR, Configure effectively increases lateral branching and flowering in a number of popular ornamental species. In addition, applications of Configure may reduce the height of treated plants, resulting in more compact and marketable crops. Configure is labeled for use on containerized annual and perennial flowering and foliage crops as well as tropical plants.

Size: 1 qt

Dazide

Code: **FAD851P, FAD855P**

Dazide 85 WSG is a plant growth regulator from Fine Americas, Inc., containing 85% daminozide, and formulated in an exceptional, high-quality water soluble granule. It helps growers manage plant growth and development to ensure that plants are compact, strong, and better able to cope with transportation or transplanting. Dazide 85 WSG can be used on a wide range of ornamental plants.

Size: 1 lb, 5 lb



Florel

Code: **GRFL1G**

Florel Growth Regulator is used to reduce or eliminate undesirable fruit development on many ornamental trees and shrubs. Florel Growth Regulator can also be used to reduce the plant height of potted daffodils, increase lateral branching in ornamentals, remove mistletoe from certain trees, and to induce flowering of ornamental bromeliads.

Size: 1 gal

Hormodin (0.1%, 0.3% or 0.8% IBA)

Code: **MIS#1HOR1P (.1%), MIS#2HOR1P (.3%), MIS#3HOR8OZ (.8%)**

Hormodin is a root inducing plant hormone. Hormodin is a formulation of indole-3-butyric acid (IBA). IBA is a synthetic auxin rooting hormone, which acts as a root stimulant.

Hormodin enhances rooting, which reduces propagation bench time and plant loss. Hormodin is easy to use, yielding steadfast performance of rooted cuttings and zero disease migration.

Size: 1 lb (.1%), 1lb (.3%), 8oz (.8%)

Hortus IBA

Code: **PTHORTIS100G**

Hortus IBA Water Soluble Salts 20% Rooting Hormone - Kg will propagate annual, perennial and woody plants cuttings by all basal and foliar methods. Unlike other pre-made quick dip methods, Hortus IBA Water Soluble Salts come alcohol free and retails at a lower price point. Use Hortus IBA Water Soluble Salts (20%) to make rooting solutions. The Salts dissolve easily in water to over 100,000 ppm IBA. Use the solutions to propagate new plants from cuttings. Treated cuttings are expected to produce uniform roots all around the basal end.

Size: 100 gram

KLN Concentrate

Code: **DYNKLN-008, DYNKLN032, DYNKLN-100, DYNKLN-500**

K-L-N Concentrate™ is a root stimulating solution containing both (IBA) Indole-3-butyric acid and (NAA) 1-Napthaleneacetic acid hormones that produce vigorous root development in all plants. Use it for propagating cuttings and as a transplanting drench for newly potted plants. Drench or mist your plants for an explosion of new root growth. Professional growers recommend K-L-N to speed up propagation of cuttings in all growing media.

Size: 8 oz, 1 qt, 1 gal, 5 gal

MegaPhos

MegaPhos is a high concentration of a unique, natural, wild microorganism named *Bacillus megaterium* strain HM87. This potent microorganism is essential for phosphorus uptake in plants, especially when bound in high pH soils. When applied to the plant, MegaPhos grows on the root system, colonizing and taking up residence in the rhizosphere. While there, MegaPhos produces several essential enzymes and secondary metabolites that helps solubilize bound or tied up phosphorus, making it more available to the plant.

Nitryx SP

Code: **BSN1LB**

Nitryx is a high concentration of proprietary beneficial bacteria on a 100% water soluble powder. This powerful new product effectively fixates nitrogen from the atmosphere and transfer it to the plant, thereby making fertilizer use much more efficient. In fact, when used in combination with fertilizers, researchers have seen Nitryx reduce the need for traditional chemical fertilizers.

Size: 100 gram

ProGibb

Code: **GRVALPG1Q**

ProGibb is used in many crops to improve crop quality and value. In seedless table grapes, ProGibb enlarges the cluster, thins excessive fruit and increases berry size. In citrus, ProGibb maintains the quality of the rind, extending the harvest period. ProGibb is also used to improve the market value of sweet and sour cherries, blueberries, and a number of other fruits and vegetables. In cotton and rice, ProGibb stimulates early season growth for more yield potential.

Size: 1 qt

Radiate

Code: **FERRAD1G**

It's time to give back to the crops that have given you so much over the years. Grow your best season by giving your crop Radiate—specifically designed to help develop longer, stronger, healthier roots to improve nutrient uptake. This powerful root growth technology increases your plants' ability to utilize more essential nutrients and water in your fields. The unique balance of IBA and Kinetin consistently supports maximum root growth and plant performance. Ideal for corn, soybeans, cotton, peanuts, wheat, potatoes, sugarbeets and dozens of other crops.

Size: 1 gal

Rhizopon (0.1%, 0.3% or 0.8% IBA)

Code: **RHIZO#1IBA1P (.1%), RHIZO#2IBA1P (.3%), RHIZO#3IBA1P (.8%)**

Rhizopon Rooting Hormone Powders use dry-drip application to act with a plant's own natural rooting hormones. This aids in root formation by uniform absorption of the active ingredient. Approved label under WPS for zero-hour reentry interval. Registered with the U.S. Environmental Protection Agency for greenhouse and nursery use. Rhizopon plant rooting products have been in use since 1939, when they were developed in the Netherlands. Using a "dry drip" method of application, three color coded concentrations are available for the broadest range of plant material.

Size: 1 lb (.1%), 1lb (.3%), 1lb (.8%)

Tenet WP

Code: **BSTENET1LB**

Tenet® WP is a second-generation biorational fungicide with a proven combination of two species of beneficial *Trichoderma* fungi used in the management of soil-borne diseases which include *Fusarium* spp., *Phytophthora* spp., *Pythium* spp., *Rhizoctonia* spp., *Sclerotinia* spp., *Sclerotium rolfsii*, *Thielaviopsis basicola*, *Verticillium* spp., as well as *Armillaria* sp and *Rosellinia* sp. These soil-borne root and collar rot diseases affect a wide range of vegetable, fruit, row, and ornamental crops.

Size: 1 lb

Wood's Rooting Compound

Code: **MISRC1P, MISRC1G**

A safe, effective, and inexpensive way for growers to use rooting stimulants for plant propagation. It contains isopropyl alcohol which eliminates cross-contamination and makes the solution self-sanitizing. The concentrated dip lets you easily select the exact concentration desired for each type of cutting. Wood's is safe to use on ornamental trees and fruit trees that have not yet produced fruit. The shelf life in the original container is up to two years (at room temperature - do not refrigerate). Limiting exposure to sunlight and intense heat will help prolong the shelf life.

Size: 1 pt, 1 gal



PH ADJUSTERS

0-0-25 PH Booster

Code: **GPPHB0-0-25**

Growth Products' 0-0-25 Liquid Potassium Solution is a crystal clear concentrate solution containing a very safe and reliable source of potassium from potassium carbonate. It has an extremely low phytotoxicity level, does not contain chlorides, and has the lowest salt index of any potassium source. 0-0-25 will adjust both water and soil pH levels. Since its clear solution does not settle out, 0-0-25 can be directly siphoned from the original container with a high ratio proportioner. It is alkaline (pH =11), and will raise the pH levels of your stock tank and growing media.

Size: 2.5 gal

66° Sulfuric Acid

Code: **FERSA75LB**

Sulfuric Acid, 66 DEG Be, Technical is an extremely corrosive acid that comes as a yellowish slightly viscous liquid. It is soluble in water and is a diprotic acid. It has very strong corrosive, dehydrating and oxidizing properties and is hygroscopic. It uses range from detergent production, antifreeze, pharmaceuticals and fertilizers to cellophane, lubricants and production of explosives. Technical grade products supplied by Spectrum are indicative of a grade suitable for general industrial use.

Size: 5 gal, 15 gal, 30 gal, 55 gal, 275 gal

85% Phosphoric Acid

Code: **FERPA5G**

The most common source of phosphoric acid is an 85% aqueous solution; such solutions are colourless, odourless, and non-volatile. The 85% solution is a syrupy liquid, but still pourable. Although phosphoric acid does not meet the strict definition of a strong acid, the 85% solution is acidic enough to be corrosive.

Size: 5 gal, 15 gal, 30 gal, 55 gal, 275 gal

Citric Acid 50% Liquid

Code: **GPPH2.5G, GPPH30G**

Growth Products' pH Reducer is a safe, organic citric acid solution. This is welcome news for golf course superintendents, farmers, and nursery owners in environmentally sensitive areas and/or those who would like to stay away from corrosive acids when it comes time to adjust a soil or water pH problem. This pH Reducer is gentle on turf. With its non-burning formula, you won't run into root pruning problems, which is quite common when using harsher acids such as phosphoric and sulfuric acid.

Size: 2.5 gal, 30 gal

Citric Acid 99% Powder Organic Bicarbonate

OBR is an Organic Bicarbonate (and pH) Reducer that is derived from Citric Acid. It has the advantage over harsh mineral based "Hazmat" acids, like Nitric, Phosphoric or Sulfuric Acid, of being non-hazardous and easy to handle, easily dissolves in water and is highly compatible with other water soluble products. While eye protection, gloves and an apron are recommended there is no requirement for special handling and equipment and storage does not require lock and key. It has been known to cause minor skin and eye irritation and should be handled with respect.

Potassium Hydroxide Caustic Flakes

Code: **FERHF55LB**

Top quality Potassium Hydroxide flake for all of your soap making, and other potassium hydroxide needs.

Potassium Hydroxide, also known as caustic potash is used in a wide variety of products, from liquid soap, to making cleaners. It is also used as a source of potassium.

Size: 50 lb





Bio-foaming Agent

Code: **BFA5G**

Bio-foaming agents effectively removes organic build-up, odors, and scum in kitchens. The combination of citrus, foam, and premium microbes works fast on scum, organic build-up, and odors. It is delivered as a foam it is able to maintain contact on hard to clean areas like baseboards, outsides of beverage lines, and drain covers eliminating scum.

Size: 2.5 gal

Green Clean Acid Cleaner

Code: **FUNGCAC5G**

GreenClean Acid Cleaner combines acids with non-foaming surfactants to help lift away organic deposits and clean surfaces contaminated with calcium, rust, and bicarbonate deposits. It is ideal for wherever scale, oxide or lime buildup is an issue.

Size: 5 gal

Green Clean Granular

Code: **FUNZRO50LB**

Through the power of oxidation GreenClean Granular Algaecide breaks down algae cells on contact, you can see it working! Its unique organic chemistry immediately begins fighting algae blooms and releasing vital oxygen into the water as it biodegrades.

Size: 50 lb

Green-Shield

Code: **BASFGS1G**

Prescription Treatment® brand Green-Shield® Disinfectant & Algicide — a biodegradable liquid concentrate for horticultural use that controls fungal, bacterial and viral plant pathogens/algae. The 1st step to a successful disease management program.

Size: 2.5 gal

Horti-Klor

Code: **P49HK5G**

HORTI-KLOR™ is an active, high-foaming chlorinated detergent designed to dislodge stubborn material such as algae staining, plant residues, oily residues and dirt. The emulsion will not break during rinsing, thus preventing oily residues which contribute to bacterial growth and off-odors.

Size: 5 gal

Kleengrow

Code: **P49KG1G, P49KG5G**

A broad-spectrum microbicide, KleenGrow™ is a mild quaternary ammonium chloride compound with wide spectrum fungicidal and bactericidal properties.

Size: 1 gal, 5 gal (available in 30, 55 and 275)

Oximate 2.0

Code: **HERORNI150P**

OxiDate 2.0 kills bacterial and fungal pathogens, offering superior protection for your organic or conventional field and row crops. Use OxiDate 2.0 for curative and preventative crop protection applications.

Size: 50 lb

Perpose Plus

Code: **FUNPP5G, FUNPP15G**

PERpose Plus™ is a treatment for the prevention and suppression/control of horticultural and agricultural diseases in commercial greenhouses, garden centers, landscapes, agricultural crops, nurseries, interiorscapes and professional turf care.

Size: 5 gal, 15 gal

Physan 20

Code: **HFPSPH20**

PHYSAN 20™ is a broad range disinfectant, fungicide, virucide, and algaecide which effectively controls a wide variety of pathogens on hard surfaces and plants. Its applications include greenhouses, hard surfaces, lawn and turfgrass, seedlings and cut flowers, decorative fountains, pools and birdbaths, and plants.

Size: 1 gal

Sanidate 5.0 (OMRI Listed)

Code: **FUNSAN2.5G, FUNSAN5G**

Keep your post harvest equipment and fruits and vegetables free of disease with SaniDate 5.0's time-tested activated peroxide chemistry. SaniDate 5.0 is broadly labeled for hard surface sanitization and disinfection, as well as fruit and vegetable wash treatments to eliminate human health and plant spoilage pathogens on contact. SaniDate 5.0 is also NOP compliant and

Size: 2.5 gal, 5 gal

Strip-It (Oasis)

Code: **FL6164**

Strip-It® Cleaner is an end-of-season cleaner for greenhouse structures and irrigation systems / water storage tanks and sunblock wash.

Size: 1 gal

Strip-It (Pace49)

Code: **P4SI5G**

STRIP-IT PRO™ is a powerful combination of cleaning and wetting agents that effectively removes dirt and mineral deposits as well as dissolving mineral deposit residues.

Size: 5 gal

Uptake

Code: **P49UT5G**

Biodegradable soil adjuvant and wetting agent for use in greenhouse and nursery stock, orchards, and turf. Provides increased water penetration through the soil and improved performance as a pesticide spray adjuvant.

Size: 5 gal

Zerotol

Code: **FUNRO2.5G**

ZeroTol 2.0 is a broad-spectrum bactericide/fungicide that works on contact to kill plant pathogens and their propagules, including spores. Formulated with our powerful and stable paracetic acid chemistry, use ZeroTol 2.0 starting at propagation through production to protect all greenhouse and nursery crops, including fruits and vegetables.

Size: 2.5 gal



Pioneering agricultural research, environmental safety, customer support, and custom formulated products, JH Biotech's mission is to create environmentally responsible natural, organic, and biological products for plant health, pest management, and animal well-being. JH Biotech creates positive changes in agriculture to benefit the grower, consumer, and environment through their products and green science.

Ant Out *Natural Ant/Insect Control*

Ant Out is a natural, botanical ant killer derived from essential oils and other natural ingredients. Ant Out wipes out all types of ants and controls all life stages – egg, larva, pupa, and adult. It is also effective against spiders, silverfish, crickets, and other common insect pests. Ant Out is a contact kill product meaning it will kill ants that come in direct contact with the spray. Ants will usually die within seconds and the effects can be seen immediately.

Active Ingredients

- Clove Oil 20%
- Cottonseed Oil 40%
- Inert Ingredients 40%



BioEnhancer *Insect Feeding Stimulant*

BioEnhancer® is an insect feeding stimulant and attractant. When combined with chemical and/or biological insecticides it may increase their efficiency. BioEnhancer® stimulates insects of the Order Lepidoptera to eat insecticides thereby increasing the effectiveness of insecticides.

Principal Functioning Agents

Molasses.....	24.5%	Whey.....	7.0%
Acetic Acid	1.5%	Dextrin.....	1.1%
Gum Arabic.....	0.3%		

BioRepel *Natural Insect Repellent*

BioRepel® is an all natural insect repellent made from pure garlic oil. When applied the strong garlic odor dissipates within a few minutes, but remains offensive to insect pests for days. BioRepel® can be applied to all plants, trees, shrubs and crops to repel most insect pests. It is safe to use, handle, and store and has no plant toxicity and is non-toxic to humans and animals.

Active Ingredients

Garlic Oil.....10%

Other Ingredients

Water.....90%



EFFECTIVE ON



Thrips



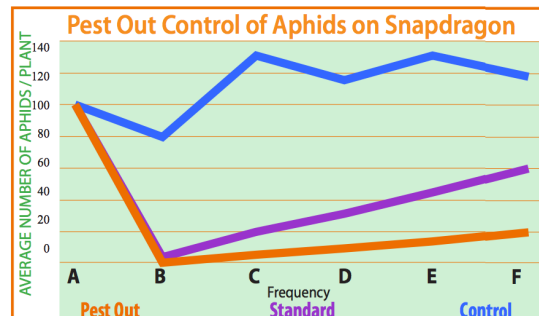
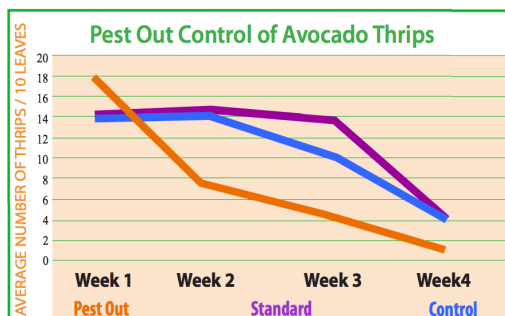
Aphids



Mites

Pest Out *Natural Insect Control*

For control of various mites and insects on many types of crops such as melons, squash, tomatoes, tree crops, grapes, cucumbers and all sorts of flowers. Pest Out is a FIFRA 25b exempt pesticide (Rule 40 CFR 152.25). Pest Out has shown the ability in independent, replicated field and greenhouse trials to control mite populations for 3-4 weeks with a 1% spray solution. Pest Out is applied as a foliar spray and should be a great addition to a well managed IPM program. It is made from 100% organic components so there is no danger of toxic effects to humans or animals.





Fosphite *Reduced Risk Systemic Fungicide*

Fosphite is a reduced risk fungicide for use on ornamentals and turf. FOSPHITE's active ingredient is phosphorus acid, which is toxic to various fungi like Phytophthora, Pythium, and Downey Mildew. When used in accordance with the label, Fosphite can offer superior protection against these diseases while at the same time remaining safe to applicators and the environment. Fosphite can be used to control Phytophthora, Pythium and Downey Mildew on such plants as Azaleas, Bougainvilleas, Diffenbachias, Ficus, Juniper, Pine, Philodendrons, Roses, bedding plants and many others. Fosphite is also an excellent control measure for yellow turf on landscaped lawns and golf courses.

Benefits

- Excellent control of Pythium, Pytophthora and Downey Mildew
- Low application rates translate into lower cost
- Registered as a 'Reduced Risk Pesticide' by the EPA
- Environmentally safe
- Kills fungi and is non phytotoxic*
- Works both as a foiar and soil applied fungicide

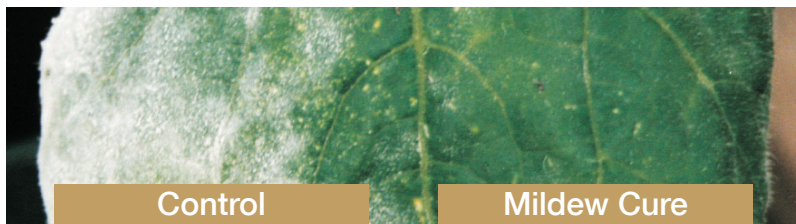


Mildew Cure *Natural Fungicide for Powdery Mildew*

For control of Powdery Mildew on many types of crops such as melons, squash, tomatoes, cucumbers, trees crops, grapes and flowers. Mildew Cure is applied as a foliar spray and should be a great addition to a well managed disease program. It is made from 100% organic components.

Ingredients

Cottonseed Oil	30%
Corn Oil.....	30%
Garlic Oil.....	23%
OTHER INGREDIENTS	17%
Oleic Acid, Lauric Acid, Sodium Bicarbonate, Water	
TOTAL	100%

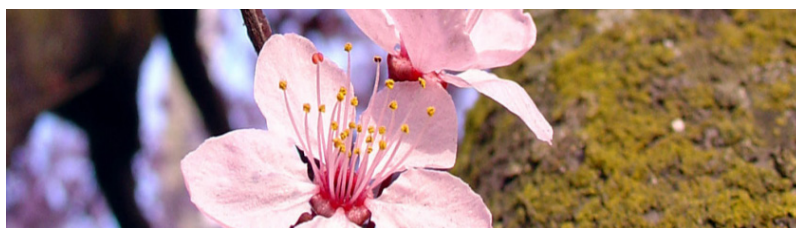


No Moss *Natural Broad Spectrum*

No Moss is a broad spectrum mossicide that controls both mosses and liverworts. It is derived from essential oils and other natural ingredients. These active ingredients are listed as food grade materials so No Moss is safe to use around children and pets. No Moss is exempt from EPA registration under FIFRA Sec. 25(b).

Ingredients

Garlic Oil	10%
Clove Oil.....	20%
Cottonseed Oil.....	40%
OTHER INGREDIENTS	30%
Oleic Acid, Lauric Acid, Sodium Bicarbonate, Water	
TOTAL	100%



Weed Zap *Organic Weed Control*

Weed Zap is an all natural non-selective herbicide. Weed Zap “zaps” small broad leaf and grassy weeds. It's natural ingredients will eliminate plants that are six inches in height or less. Weed Zap is a broad spectrum herbicide that is suitable for organic production. WEED ZAP is 100% biodegradable, which makes it an environmentally smart product to use around house, school, park, playgrounds or anywhere people and pets are present..

Natural Wet *Organic Wetting Agent*

Natural Wet is a special formulation designed to alleviate the stress plants suffer under unfavorable conditions. Natural Wet can also facilitate nutrient and water absorption, *adding Natural Wet to the spray tank enhances the spreading and sticking properties of the spray solution. The main ingredients are saponins which are sapogenin glycosides derived mainly from yucca plant extracts. Natural Wet can be applied to potting mixes to aid in the uniformity of water absorption.

*This usage not approved for use in California.

GC Mite *Organic Insecticide*

For control of various mites and insects on many types of crops such as melons, squash, tomatoes, tree crops, grapes, cucumbers and all sorts of flowers. GC-Mite™ is a FIFRA 25b exempt pesticide (Rule 40 CFR 152.25). GC-Mite™ has shown the ability in independent, replicated field and greenhouse trials to control mite populations for 3-4 weeks with a 1% spray solution. GC-Mite™ is applied as a foliar spray and should be a great addition to a well managed IPM program. It is made from 100% organic components so their is no danger of toxic effects to humans or animals.

Certis USA is a pioneer in the development of biological pesticides and has become one of the world's leading manufacturers and distributors of biopesticides. We specialize in biological product development, from screening to formulation to field development, manufacturing; fermentation and formulation, global registrations for biological products and global sales channels. We export to more than 30 countries.

Neemix 4.5

Neemix 4.5 is an insect growth regulator. It controls targeted insect larvae by interfering with the insects' ability to molt. It is effective on all larval and pupae stages. It also reduces damage by repelling and deterring feeding of all stages of insects.

Active Ingredient: Azadirachtin 4.5%



Des-X

DES-X insecticidal soap concentrate is a bioinsecticide that controls insect and mite pests on contact. It contains specially selected fatty acid salts (soaps) that penetrate the body of pests and results in rapid death.

Active Ingredient By Wt.

Potassium Salts of Fatty Acids 47%
 Other Ingredients. 53%
 Total. 100%



SoilGuard

An easy-to-use granular formulation that contains a living, naturally occurring soil fungus, *Trichoderma virens*, that controls soil-borne diseases caused by *Pythium*, *Rhizoctonia* and *Fusarium*.

Active Ingredient: *Trichoderma virens* (formerly called *Gliocladium virens*)



PFR-97

PFR-97 contains a naturally occurring soil fungus that controls some of agriculture's most devastating pests, including whitefly, aphid, thrips and spider mite.

Active Ingredient: *Paecilomyces fumosoroseus*

Neemazad 1%

With the introduction of Neemazad® 1% EC insect growth regulator, specialty crop growers can one-stop shop Certis USA for azadirachtin products. Neemazad is the dilute mixture to spray on a volume-to-volume basis.

Active Ingredients: 1.0 Wt % Azadirachtin

Seduce

Seduce is a spinosad bait that attracts and kills ants, earwigs and cutworms. Its highly compressed easy-to-apply granules can be effective up to four weeks.

Active Ingredient: Spinosad (a mixture of spinosyn A and spinosyn D)

AgSil 16H

Certis USA introduces a bionutrient product line based on AgSil® potassium silicate technology. AgSil products provide plants with silicon, an often overlooked nutrient that helps plants' deal with stress, temperature fluctuations, drought, salinity and metal toxicity.

LifeGard WG

Introducing LifeGard WG, the first in a new class of biological disease control agents, used to manage early, late and *Cercospora* blights in potatoes, as well as white mold. Apply it to prime your potato crop to be ready and resistant against disease. LifeGard fits your resistance management program.



CryMax

Crymax biological insecticide is a genetically engineered strain of Bt containing toxins from both *Bt kurstaki* and *Bt aizawai* strains. Biological insecticides, or Bt biolarvicides, based on a beneficial bacterium *Bacillus thuringiensis* (Bt) are the most proven, most widely used and most successful of the known biological pesticides.



Trilogy

Thorough coverage is essential for good disease and mite control. Trilogy prevents fungal attack of plant tissue and contact activity to mite pressure on the plant. Avoid excessive run off of spray for maximum control.

Active Ingredient: Clarified Hydrophobic Extract of Neem Oil



Sil-Matrix

Sil-MATRIX introduces a novel active ingredient—soluble silica—to crop protection. When spray applied, it controls the mites and insects it contacts suppressing their populations. Sil-MATRIX also forms a physical barrier within the leaf cuticle that prevents penetration of fungal diseases, primarily powdery mildew.

Javelin

One of the most recognized brand names ever sold. Javelin WG contains a naturally occurring *Bt kurstaki* strain that offers broad spectrum control of mixed worm populations in tree and vegetable crops.

Cueva

Cueva fungicide concentrate is a patented, fixed copper fungicide made by combining a soluble copper fertilizer with a fatty acid to form a true soap. This copper soap fungicide protects plants from infection from a wide range of diseases, including downy and powdery mildews.

Active Ingredient: Copper Octanoate (Copper Soap)

OSO 5% SC

OSO is a polyoxin D zinc salt fungicide that controls diseases on vegetable and fruit crops.

Active Ingredient: Polyoxin D zinc salt



At BioWorks, we believe that how you grow is just as important as what you grow. That's why we are passionate about bringing growers environmentally responsible solutions for controlling insects and plant diseases. Our innovative family of products combines the environmental responsibility that you strive for with the cost-effectiveness and efficacy that you depend on.

Cease

Cease is based on a naturally occurring, patented strain of *Bacillus subtilis* (strain QST 713). It provides effective control of a wide array of both fungal and bacterial pathogens, while providing outstanding plant, human and environmental safety.



Suffoil-X

SuffOil-X® is a unique concentrate of pre-emulsified, highly refined, high paraffinic, low aromatic oil. It is the ideal choice for effective insect, mite and disease control in a broad range of greenhouse, nursery and vegetable crops.



BotryStop

BotryStop is a biological fungicide for the control of *Botrytis* and *Sclerotinia*. Labeled for use on a wide variety of field or greenhouse grown vegetables, grapes and other small fruits. Also for use on ornamentals in the greenhouse or nursery.

- Active ingredient: *Ulocladium oudemansii* (U3 strain)
- REI: 4 hours.
- Controls: *Botrytis* and *Sclerotinia*.
- Ships direct from the vendor.

RSSI

A microbial soil inoculant that contains both *Trichoderma harzianum* strain T-22 and *Trichoderma virens* strain G-41. R.S.S.I. augments the natural microbial activity in the soil, increasing the availability of nutrients to the growing plant. Available in granules or as a wettable powder.

Milstop

Milstop Organic Mildew Fungicide provides curative control of powdery mildews. A potassium bicarbonate-based, foliar fungicide that kills powdery mildew on contact by pulling water from spores and their growing strands. It also inhibits enzymes involved in fungal cell wall formation by altering the pH on the leaf surface, providing 1-2 weeks of residual protection.

PreFence

PreFence, a new organic biological fungicide that effectively controls a wide range of pathogens: damping-off caused by various fungi, such as *Alternaria* and *Rhizoctonia solani*; wilt and root diseases caused by *Fusarium*, *Phytophthora* and *Pythium*, according to a press release. PreFence can also be used to suppress grey mold caused by *Botrytis*.

PreFence contains mycelium and spores of *Streptomyces* strain K61, a naturally occurring bacterial strain isolated from *Sphagnum* peat.

The product (a wettable powder) is mainly used in the form of an aqueous suspension.

Molt-X

Molt-X works primarily as an insect growth regulator that disrupts the molting process in insects. Once treated with Molt-X, insects become sluggish, stop feeding and fail to mature and reproduce. Molt-X also acts as an insect repellent, antifeedant and ovipositional deterrent.



BotaniGard ES & WP / MyControl ESO & WPO (Organic version of BotaniGard)

BotaniGard Mycoinsecticide is an effective biological insecticides that is used to control whitefly, thrips, aphids, and many other insects. It is based on the highly successful fungus, *Beauveria bassiana* strain GHA, and controls the most troublesome crop pests – even resistant strains such as Q-biotype whitefly. BotaniGard is versatile enough to use as a stand alone, as a tank mix partner, or in rotation with other insecticides.



Formulation	Pest
BotaniGard ES & MyoControl ESO (Organic) <i>Liquid emulsifiable suspension</i>	Whiteflies, mealybugs, aphids, thrips, other labeled insects
BotaniGard 22WP & MyoControl WPO (Organic) <i>Wettable Powder</i>	Whiteflies, mealybugs, aphids, thrips, other labeled insects

RootShield

Before planting, choose RootShield® Granules to mix in your soil/media or drench with RootShield® WP wettable powder for greenhouse, nursery and vegetable crops. The active ingredient is a unique hybrid fungus, *Trichoderma harzianum*, strain T-22 that protects roots from many pathogens. Within 24-hours RootShield blocks and actively attacks pathogens by “eating” them; ensuring uninterrupted plant growth.

RootShield Plus

RootShield PLUS is an organic biological fungicide with dual active ingredients that prevent a broad spectrum of root diseases and promote healthy root systems. The active ingredients are *Trichoderma harzianum* strain T-22 and *Trichoderma virens* strain G-41. Before planting, choose RootShield PLUS® Granules to mix in your soil/media or drench with RootShield PLUS® WP wettable powder for greenhouse, nursery and vegetable crops.

Insect Monitoring Sticky Cards

RootShield PLUS is an organic biological fungicide with dual active ingredients that prevent a broad spectrum of root diseases and promote healthy root systems. The active ingredients are *Trichoderma harzianum* strain T-22 and *Trichoderma virens* strain G-41. Before planting, choose RootShield PLUS® Granules to mix in your soil/media or drench with RootShield PLUS® WP wettable powder for greenhouse, nursery and vegetable crops.





BioSafe Systems is a family-owned manufacturer of biodegradable disease-control products started in 1998. The company quickly expanded to the agricultural, industrial, and consumer markets with innovative pest control solutions, applications, and products. The mission of BioSafe Systems is to provide disease control solutions utilizing reduced-risk chemistries that are safe and healthy for people and the land.

ZeroTol 2.0

ZeroTol 2.0 is a broad-spectrum bactericide/fungicide that works on contact to kill plant pathogens and their propagules, including spores. Formulated with our powerful and stable paracetic acid chemistry, use ZeroTol 2.0 starting at propagation through production to protect all greenhouse and nursery crops, including fruits and vegetables.



SaniDate 5.0

Keep your post harvest equipment and fruits and vegetables free of disease with SaniDate 5.0's time-tested activated peroxide chemistry. SaniDate 5.0 is broadly labeled for hard surface sanitization and disinfection, as well as fruit and vegetable wash treatments to eliminate human health and plant spoilage pathogens on contact. NOP compliant and OMRI Listed for organic production.

SaniDate 12.0

SaniDate 12.0 is an EPA registered microbicide for treating irrigation water and irrigation systems to suppress/eliminate water-borne plant pathogens, bacterial coliforms and algae. SaniDate 12.0's activated Peroxygen chemistry is highly effective, powerful and economical making it the ideal solution for treating irrigation water and irrigation systems.

CalOx

CalOx is an easy and effective alternative to bagged lime for use on all types of agricultural field crops, greenhouse ornamentals and vegetable crops, as well as outside nursery and hay fields. It features finely micronized calcium in a liquid suspension that can be absorbed by leaves and roots.

Bioceres WP

BioCeres WP is an insect-pathogenic bio-insecticide using the *Beauveria bassiana* fungus. The OMRI listed ANT-03 strain is approved for organic production and is perfectly suited in IPM programs, in a tank mix with other pesticides as well as specific, stand-alone use. BioCeres WP is used for the biological control of numerous pests including whiteflies, aphids and thrips by adhering to and penetrating the insect's exoskeleton, causing death. It can be used in a wide range of crops as well as ornamental plants and edibles.

Bio-foaming Agent

Bio-foaming agents effectively removes organic build-up, odors, and scum in kitchens. The combination of citrus, foam, and premium microbes works fast on scum, organic build-up, and odors. It is delivered as a foam it is able to maintain contact on hard to clean areas like baseboards, outsides of beverage lines, and drain covers eliminating scum.

P-Vent

PVent Biofungicide is an enhancement in microbial fungicide technology, providing growers with an easy-to-use, versatile IPM tool. This innovative development was spearheaded through a strategic partnership between two family-owned businesses: BioSafe Systems and Lallemand Plant Care.

OxiDate 2.0

OxiDate 2.0 kills bacterial and fungal pathogens, offering superior protection for your organic or conventional field and row crops. Use OxiDate 2.0 for curative and preventative crop protection applications, or tank mix with other residual fungicides to help provide immediate knockdown control. With OxiDate 2.0, zero days to harvest and short re-entry interval allows growers to spray right up to harvest. (same product as Zeritol with a different label).



Green Clean Granular

Through the power of oxidation GreenClean Granular Algaecide breaks down algae cells on contact, you can see it working! Its unique organic chemistry immediately begins fighting algae blooms and releasing vital oxygen into the water as it biodegrades.

Green Clean Acid Cleaner

GreenClean Acid Cleaner combines acids with non-foaming surfactants to help lift away organic deposits and clean surfaces contaminated with calcium, rust, and bicarbonate deposits. It is ideal for wherever scale, oxide or lime buildup is an issue.

TerraGrow Fertilizer

A powdered blend of scientifically selected beneficial bacterial and fungal spores to improve soil characteristics and plant stress tolerance. Increases the availability and absorption of macro/micro nutrients, stimulates root development/reduces transplant shock. Promotes systemic plant resistance to stress.

Oxiphos

OxiPhos is a combination of phosphorous acid and activated peroxide that provides a one-two punch against diseases. The activated peroxide helps the phosphorous acid active ingredient to have a broader effect on targeted organisms. OxiPhos can be used throughout the growing season to prevent and control diseases caused by the oomycete group of pathogens.

AXXE

AXXE Broad Spectrum Herbicide is a non-selective, weed control for grasses and broadleaf weeds. It is formulated to deliver maximum performance and provide fast-acting results on a long list of weeds and grasses, as well as most mosses and lichens. This product is an herbicidal soap product comprised of a form of ammoniated pelargonic salts.

Azaguard

AzaGuard is a 3% Azadirachtin formulated Insect Growth Regulator (IGR) that offers broad spectrum insecticidal control on over 300 insect species. AzaGuard prevents molting between larval, pupal and nymphal stages and also repels insects in treated areas, reducing insect infestations in/around the facility.

Ancora

Ancora Microbial Insecticide is a naturally-occurring fungus that infects both foliage and soil dwelling insects such as whiteflies, aphids, thrips, weevils, psyllids, leafminers, spider mites, mealybugs, and other pests. Ancora is registered by the EPA and is labeled for use in the greenhouse, nursery, landscape and turf markets.

Soilgard 12g (OMRI Listed)

G. virens, the active ingredient in SoilGard 12G is a naturally occurring soil fungus, which is antagonistic to plant pathogenic fungi such as *Pythium* and *Rhizoctonia*, thereby aiding in control of these damping off and root rot pathogens. SoilGard 12G acts as a preventative and will protect non-infected plants.

Triact 70

Triact 70 (clarified hydrophobic extract of Neem oil) is a broad-spectrum fungicide, miticide and insecticide (OMRI listed). This highly effective and economical botanical oil may be used indoors as well as outdoors on ornamental flowering plants, trees, shrubs and foliage grown in greenhouses, interiorscapes and commercial landscapes.

Triathalon BA (OMRI Listed)

Triathalon BA is an OMRI listed broad-spectrum preventative biofungicide and bactericide for use on a wide variety of ornamentals, fruits, vegetables and herbs grown in greenhouses, nursery and shade houses. Triathalon BA also colonizes plant root hairs, preventing establishment of disease-causing fungi and bacteria.

Azitin O

Azatin® O is a newly-formulated biological insect growth regulator (IGR) used to control the larval stage of a broad-spectrum of greenhouse and nursery pests. Azitin O is OMRI listed (Organic Materials Resource Institute), is soft on beneficials, and carries a 4-hour REI. Azitin O contains 175 grams of the active ingredient azadirachtin per gallon. Azitin O may be used for insect control on all crops such as ornamentals, vegetables, herbs, and berries, grown in the greenhouse, nursery, interiorscape, and in hydroponic growing situations.

Floramite SC

Floramite SC Ornamental Miticide provides outstanding control of a variety of mite pests on ornamentals plants in greenhouse, shadehouse, nursery, field, landscape and interiorscape settings. Floramite SC is effective on a variety of mites and all life stages of Tetranychid spider mites.

Kopa

Kopa™ insecticidal soap is a potassium salt of fatty acid soap that controls insects, mites and powdery mildew. Kopa can be used for organic production. Use on ornamental and shade trees including flower and foliage plants in greenhouse and outdoors. Pome, stone fruits, small fruits and vegetables both in field and outdoor production, Herbs and spices, Hops, coffee and others. See full label for specific directions.

Contact ACW Supply for more available OHP products

Marathon 1% Granular

Marathon 1% G is a highly-active insecticide that demonstrates systemic activity in plants when applied to the soil surface or incorporated into the media. It offers up to 12 weeks of residual control on ornamentals plants for resale grown in the greenhouse or nursery.

Marathon II

Marathon II is a flowable formulation that allows for a foliar spray application on ornamentals and vegetable transplants for resale grown in the greenhouse or nursery. At very low rates Marathon II as a spray offers 3 to 4 weeks of control on sucking and piercing insects (aphids, whiteflies, and thrips).

Pycana

Pycana™ is a OMRI Listed Insecticide/Miticide combination product containing pyrethrins and canola oil. Pycana provides quick knockdown of many insects and mites including aphids, leafhoppers, earwigs, plant bugs, psyllids, mealybugs, thrips, whiteflies, and spider mites.

Sirocco

Sirocco provides quick knockdown and long residual control of a wide variety of insects and pests such as thrips and mites. Sirocco may be used in greenhouse, shadehouses, nurseries (including Christmas tree / conifer plantations), landscapes and interiorscapes.

Shuttle O

Shuttle O miticide is the first product from the naphthoquinone derivative class of chemistry. Shuttle O is an excellent choice as a rotational tool for control of two-spotted spider mites, spruce spider mites and other mites.

B Nine

B-Nine WSG reduces plant height in ornamental plants by reducing internode length. Other benefits include a deeper green color and reduced breakage during shipping. B-Nine WSG when applied to plant foliage is absorbed into the leaf, moves within the plant to the growing points to reduce internode elongation. On certain crops a tank mix of B-Nine WSG plus Cycocel can provide a synergistic effect that results in enhanced activity.

Cycocel

Cycocel is among the most reliable and widely used plant growth regulators on the market today. Cycocel may be used on any crop in the greenhouse or nursery including but not limited to, poinsettias, hibiscus, azaleas, and geraniums to reduce stem elongation, induce early flowering, improve flowering, and to produce compact plants with multiple buds per shoots.

Hormodin

Hormodin is a root inducing plant hormone. Hormodin is a formulation of indole-3-butyric acid (IBA). IBA is a synthetic auxin rooting hormone, which acts as a root stimulant. Hormodin enhances rooting, which reduces propagation bench time and plant loss. Hormodin is easy to use, yielding steadfast performance of rooted cuttings and zero disease migration.



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Nemasys® Beneficial Nematodes

Nemasys Steinernema feltiae beneficial nematodes help provide biological control of soil-dwelling stages of fungus gnats (Bradysia sp.), as well as soil and foliar stages of western flower thrips (Frankliniella occidentalis). Beneficial nematodes are microscopic worms that attack and kill targeted insects, without affecting any other organisms. Within the infected insect, the beneficial nematodes continually reproduce and then spread out for long-term control. Nemasys® contains live nematodes Steinernema feltiae in their infective juvenile stage. These nematodes attack pest larvae by entering through their natural body openings. Once inside, they release symbiotic bacteria, Xenorhabdus, which quickly kills the insect. Reproduction inside the insect host releases a new generation of hungry infective juveniles which disperse in search of more larval prey.

Nematode species:

Steinernema feltiae
Activity: 54-86 °F (12-30 °C)

Pests Controlled

Fungus Gnat (Bradysia spp.)
Western Flower Thrips (Frankliniella occidentalis)

Pests Suppressed:

Leatherjacket (Tipula paludosa)

Directions for Use

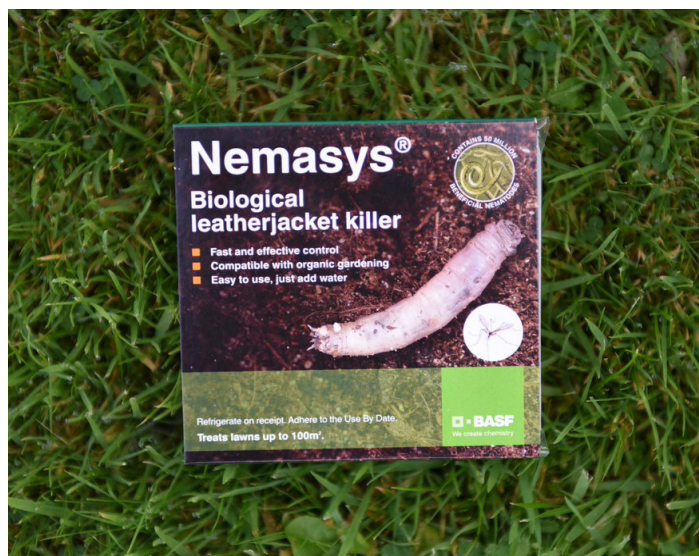
To make a stock solution, dissolve 1 tray of Nemasys 50 million in 2 gallons of water. Allow the product to hydrate and disperse for at least five minutes. Keep agitated until all stock solution is used.

Watering Can (2 gallons)

- Remove nozzle head from the watering can. Create application dilutions, as follows:
- First Application / Heavy Infestation - Mix 1 pint stock solution with 7 ½ quarts of water.
- Preventative Application / Light Infestation - Mix 1 cup of stock solution with 7 ¾ quarts of water.

Hand-Held Backpack Sprayers

- Water plant container as normal prior to nematode application. Remove all filters from the sprayer. Create application dilutions as follows:
- First Application / Heavy Infestation - Dilute one part stock solution to one part water.
- Preventative Application / Light Infestation - Dilute one part stock solution to 3 parts water.



Pot Diameter	Watering Can (2 gal)	Backpack Sprayer
4 in.	3 oz. per container	2-3 pulls on trigger
10 in.	8 oz. (1/2 c.) per container	4-5 pulls on trigger
14 in.	12 oz. (3/4 c.) per container	7-8 pulls on trigger
17 in.	16 oz. (1 c.) per container	8-10 pulls on trigger
21 in.	24 oz. (1 1/2 c.) per container	13-15 pulls on trigger

* **Please note:** for calibration purposes on backpack sprayers, 1 ounce = 8-10 pulls on a trigger sprayer. The more concentrated dilutions for backpack sprayer applications helps to reduce the application time at each container.



Being an expert in pollination and biological control, Biobest knows everything about these topics. In 1987, Biobest was the first company to put bumblebees on the market. With thirty years of expertise, we still lead the way. Biobest continues to deliver high quality products at all times. We maintain the quality at every level: in the factory and during the transport in order to guarantee an optimal result in your crop.

Amblyseius-System

Amblyseius cucumeris: the pollen-eating predatory mite

What is Amblyseius cucumeris?

- Predatory mite for the control of thrips larvae and spider mite
- Very mobile
- Also feeds on pollen, enabling it to survive without prey
- Can be introduced preventatively in pollen-bearing crops

In which crops is Amblyseius cucumeris effective?

- Great results (also preventative) in pepper and eggplant
- Equally effective in ornamental crops such as gerbera, rose and a wide range of potted plants



Andersoni-System

Amblyseius andersoni: polyphagous predatory mite

What is Amblyseius andersoni?

- Known under different names: Typhlodromus (Amblyseius) potentillae or Amblyseius (Euseius) andersoni
- Polyphagous predatory mite
- Omnivorous
- Feeds on all sorts of harmful mites such as spider mites, gall mites and russet mites
- Also feeds on thrips, pollen, honeydew and fungi

What are the benefits of Amblyseius andersoni?

- Effective at cold and higher temperatures
- Can survive in absence of prey

In which crops is Amblyseius andersoni effective?

- Ornamental crops
- Fruit crops
- Several tree species

Andersoni Breeding System

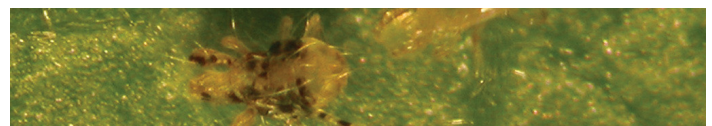
Biobest supplies Andersoni-Breeding-System in sachets with food for the predatory mite. This causes them to multiply in the sachets, ensuring a continuous walking out of the predatory mites over multiple weeks.

Packaging: 250 sachets/box

Contents: 250 predatory mites/sachet

Carrier: bran with factitious prey

Walking out: approx 2.000 predatory mites over a 6 week period





Aphidius-System

Aphidius colemani

The parasitic wasp *Aphidius colemani* is very efficient for the biological control of small-sized aphids, especially the cotton aphid and the green peach aphid. It parasitizes adults and nymphs. Parasitism is easy to recognize by the golden-brown colored mummies. A single female can lay hundreds of eggs during the first 4 days of her adult life. *A. colemani* has good searching ability and is able to find aphid colonies from a long distance by detecting "alarm signals" produced by an infected plant or the smell of honeydew secreted by its hosts. The presence of a parasitic wasp can cause panic in an aphid colony, aphids often let themselves fall to the ground where they usually die. *Aphidius colemani* is applicable on all greenhouse crops on which suitable hosts occur.

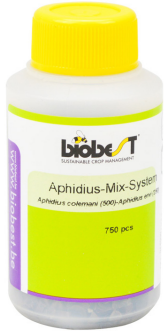


Aphidius-Mix-System

Aphidius colemani / *Aphidius ervi*

Because aphid colonies often consist of several aphid species, it can be necessary to introduce both parasitic wasps *Aphidius ervi* and *Aphidius colemani*. Both parasitic wasps are look-alikes, but differ in size. *A. ervi* is twice as large as *A. colemani*. *A. colemani* is very efficient for the biological control of the cotton aphid and the green peach aphid and *A. ervi* attacks the potato aphid and foxglove aphid.

Both *Aphidius* species parasitize adults and nymphs. Parasitized aphids turn into golden-brown colored mummies. A single *Aphidius* female can lay hundreds of eggs during the first 4 days of her adult life. They are good searchers, able to find aphid colonies from a long distance by detecting "alarm signals" produced by an infected plant or the smell of honeydew secreted by its hosts.



Atheta-System

Atheta coriaria

All mobile stages of the predatory beetle *Atheta coriaria* are extremely voracious and efficient predators of some of the most troublesome soil insect pests such as larvae of fungus gnats, shore flies as well as the pupae of thrips. The adults have a large flight range, ensuring a good dispersion throughout a greenhouse.

Atheta coriaria is applicable in several ornamental, vegetable and arboricultural crops and on different media, such as compost, coconut fiber or rock wool.

Atheta coriaria are the only beneficial insect we sell that travels the full strata of soil. Will devour soft bodied insects that grow around root systems as well as at the top of soil.



Californicus-System

Amblyseius californicus: effective and robust beneficial against spider mite

What is *Amblyseius (Neoseiulus) californicus*?

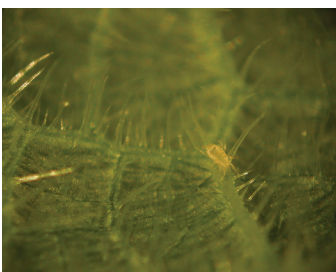
- Effective predatory mite against different species of spider mite
- Translucent with a brown-orange spot in the shape of an X on its back
- Feeds on all stages of the two-spotted spider mite
- Controls pest mites such as broad mite and cyclamen mite

What are the benefits of *Amblyseius californicus*?

- It has a strong preference for the greenhouse spider mite, but also feeds on other mites, thrips and pollen
- It is most effective at low prey density
- *Amblyseius californicus* is less sensitive to warm and dry conditions
- It also tolerates cold conditions
- This predatory mite can survive on pollen and in the absence of prey can even survive without food for a while

In which crops is *Amblyseius californicus* effective?

- Vegetable crops
- Fruit crops such as berries
- Ornamental crops





Californicus-Breeding-System

Amblyseius californicus: effective and robust beneficial against spider mite

The predatory mite *Amblyseius* (= *Neoseiulus*) *californicus* feeds on all stages of the two-spotted spider mite. It also attacks the broad mite and the cyclamen mite. It is able to consume about 5 prey items per day and can survive on pollen even in absence of prey. This predatory mite is active in a large temperature range and tolerates lower humidity. *Amblyseius californicus* is widely used for pest mite control in several vegetables, berries, fruits and ornamental crops. This predatory mite is also supplied in sachets, in which they multiply themselves. This ensures a continuous walking out of the predatory mite over multiple weeks.



Encarsia-System

Encarsia formosa

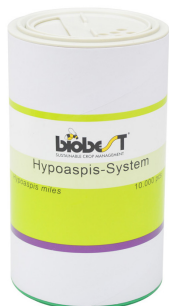
The parasitic wasp *Encarsia formosa* is applied on a wide range of greenhouse vegetable and ornamental crops to control greenhouse whiteflies. In crops with zero pest tolerance is an overkill approach recommended. *Encarsia formosa* lays its eggs preferably in 3rd and early 4th instar larvae. Parasitized larvae turn black and are therefore easily recognized. Parasitism of the tobacco whitefly is also possible. In this case, parasitized larvae turn brownish. During her life, a female *Encarsia formosa* parasitizes approximately 250 greenhouse whitefly larvae (maximum of 450) and kills another 30 (maximum of 70) by host-feeding.

Eretmix-System

Encarsia formosa / *Eretmocerus eremicus*

In conditions of fluctuating temperatures or when the tobacco and greenhouse whitefly occur together, a combined release of the whitefly parasitoids *Encarsia formosa* and *Eretmocerus eremicus* is recommended. Both parasitic wasps are closely related. *E. eremicus* is lemon-colored and *E. formosa* is black.

The main advantages of a combined release are *E. formosa*'s quick population growth and *E. eremicus*'s high temperature tolerance and effectiveness on both whitefly species. Eretmix-System is applicable in protected vegetable and ornamental crops.



Hypoaspis-System

Stratiolaelaps scimitus (*Hypoaspis miles*): robust predatory mite

What is *Stratiolaelaps scimitus* (*Hypoaspis miles*)?

- Brown and robust predatory mite
- Inhabits the top layer of soil
- Feeds on harmful soil dwelling pests
- Survives without prey for several weeks
- *Stratiolaelaps scimitus* eats larvae of fungus gnats and those of shore flies
- Furthermore, it also eats thrips pupae

How does it control pests?

- Both nymphs and adults feed on harmful soil dwelling pests
- Each mite can eat up to 5 prey a day
- *Stratiolaelaps scimitus* contributes to reducing thrips pupae
- In the absence of prey they survive on algae and plant debris

In which crops is *Stratiolaelaps scimitus* effective?

- Open field crops
- Potted plant crops
- Container crops

Packaging: 500 ml cardboard tube

Contents: 10.000 predatory mites

Carrier: mix of vermiculite, peat and factitious prey





Swirskii-System

Amblyseius swirskii: voracious predatory mite that devours whitefly and thrips

What is *Amblyseius* (Typhlodromips) *swirskii*?

- Voracious predatory mite
- The adults are beige and the nymphs creamy white
- Efficient biological control of pests such as whitefly and thrips

What are the benefits of *Amblyseius swirskii*?

- This predatory mite eats young thrips larvae
- Also devours eggs and larvae of both greenhouse and tobacco whitefly
- A generalist feeder, among other things it eats small pests such as spider mites and tarsonemid mites
- It easily adapts to high temperatures
- *Amblyseius swirskii* also feeds on pollen

How does it control pests?

- *Amblyseius swirskii* devours around 5 to 10 prey a day
- *Amblyseius* (Typhlodromips) *swirskii* needs a satisfactory food source for fast population growth
- Use of alternative food source Nutrimite™ is recommended during the first few months for optimal population growth

In which crops is *Amblyseius* (Typhlodromips) *swirskii* effective?

- Vegetable crops such as pepper, cucumber and eggplant
- Various ornamental crops



Swirskii-Breeding-System

Amblyseius swirskii

Thanks to its polyphagous character and its adaptability to high temperatures, this gluttonous predatory mite plays an important role in biological crop protection.

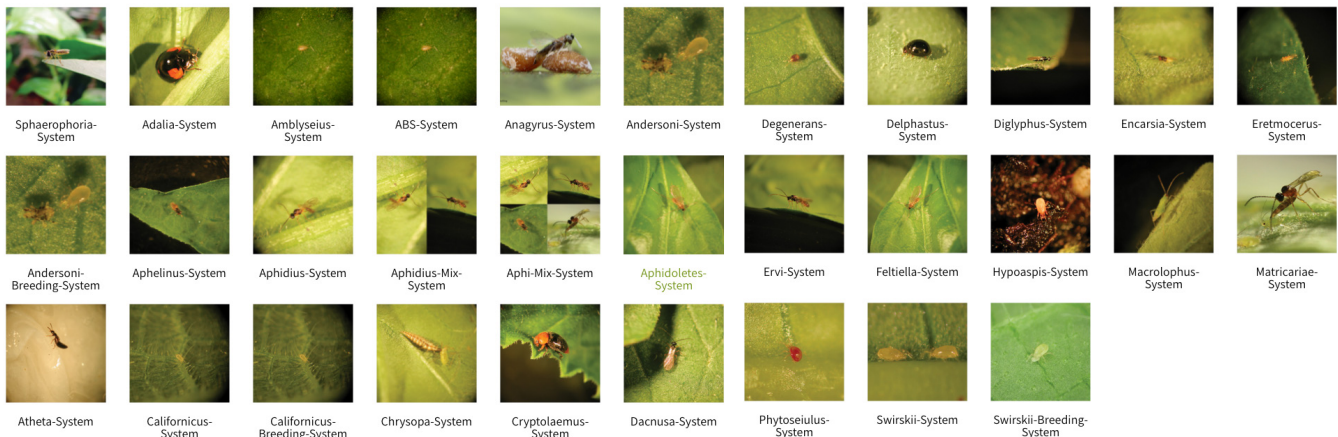
Amblyseius (Typhlodromips) *swirskii* needs a satisfactory food source for a fast growth of its population and prefers mainly young stages of whitefly and thrips.

It consumes around 5-10 preys a day. *A. swirskii* also feeds on pollen and in a certain degree on spider mites and tarsonemid mites.

This gluttonous predator is widely used as a key beneficial in sweet pepper, cucumber, eggplant, strawberry and some ornamental crops.

Other Systems Available

For a full range of Biobest beneficial insects and mites, contact ACW Supply or visit www.biobestgroup.com





BUMBLE BEE POLLINATION

Mini Hive

This hive consists of a small sized colony of the bumblebee species *Bombus terrestris*. At delivery it contains more than 30 workers. Its pollination activity lasts 3 to 4 weeks. Mini Hives are equipped with a care-free nutrition system with a Biogluc bottle of 1.1 L.

Relevant Crops:

- Tomato
- Cherry Tomato
- Sweet Pepper
- Hot Pepper

Local regulations may impose restrictions on the use of this product. Contact your authorities or contact your Biobest consultant.



Standard Hive

This hive consists of a standard sized colony of the bumblebee species *Bombus terrestris*.

At delivery it contains more than 80 workers. Its pollination activity lasts 6 to 8 weeks.

Standard hives are equipped with:

- an extendable ventilation system
- a care-free nutrition system with a Biogluc bottle of 1.4 L
- an optional pollen tray

Relevant Crops:

- Tomato
- Cherry Tomato
- Sweet Pepper
- Hot Pepper
- Melon / Watermelon
- Eggplant (aubergine)
- Cucumber / Gherkin

Note:

Please check with local authorities if the products are allowed to be used.

Local regulations may impose restrictions on the use of this product. Contact your authorities or contact your Biobest consultant.





PACE 49 Inc. is a full service company specializing in cleaners and an EPA registered disinfectant, fungicide, algacide, and bactericide for the Horticulture, Agriculture, Livestock, and Turf Grass industries – KleenGrow™. With continual testing against and combining with industry standard fungicides, we are finding more and more ways for KleenGrow™ to reduce fungicide costs while increasing disease control.

KleenGrow™ Broad Spectrum Disinfectant

KleenGrow™ is a broad spectrum pesticide and disinfectant that kills on contact and has a 2-4 week residual. It is a unique quaternary ammonium chloride formulation that is environmentally friendly yet very effective in safely controlling diseases on plants as well as hard surfaces at very low rates.

KleenGrow™ can be applied bi-weekly as a manual drench or spray through chemigation on most plant material from propagation to finish. It is the cornerstone to the PACE ACBD System® – “Always Clean Before Disinfecting”, yet remains an economical way to disinfect irrigation lines, greenhouse structures, benches, trays, coolers, and more.



Horti-Klor™ Heavy-duty, chlorinated cleaner for the greenhouse industry

Horti-Klor™ has been formulated for cleaning and sanitizing throughout the food plant and grower industries.

Horti-Klor™ is an active, high-foaming chlorinated detergent designed to dislodge stubborn material such as algae, whitewash, oily residues and dirt. The emulsion will not break during rinsing, thus preventing oily residues which contribute to bacterial growth and off-odors.

Areas of Use:

Storage Sheds, Packing Lines, Coolers, Trucks, Pots, Plug Trays, Ground Cover, Shade Cloth, Disposal Areas, Lunchrooms, Washrooms, Beds, Totes, Equipment, etc.

Strip-It PRO™ Heavy-duty, Acid-based, Phosphate-free Cleaner

STRIP-IT™ is a specialty formula that quickly penetrates and removes algae, fertilizer build-up, calcium, hard water deposits, and greenhouse whitewash coatings without brushing.

STRIP-IT™ removes all common soils found in and around greenhouses, irrigation systems, grower structures, and is especially useful during crop rotation.

Application:

Inside: 15L STRIP-IT per acre of glass.
Outside: 20L STRIP-IT per acre of glass.



UpTake™ Wetting Agent and Surfactant

UpTake™ is a biodegradable soil adjuvant and wetting agent designed for turf grass, trees, nursery stock, field crops, greenhouses and orchards. UpTake™ increases penetration of water through soil, resulting in improved root growth and plant quality. Improved performance of pesticides, insecticides, miticides, fertilizers, and herbicides can be achieved with UpTake™ when used at a tank mix, through sprinkler systems, or drip irrigation.

Use UpTake to control and prevent hydrophobic soil conditions when irrigating with sprinkler or sprayer or overhead watering. Apply at rates between 0.125-0.50 oz. per gallon of water once every 2 weeks



Growth Products has been a pioneer in environmentally-friendly bio-innovations, technically-advanced liquid fertilizers, micronutrients and biological control products designed for agriculture, horticulture and turf care for over 30 years. The Growth Products' focus is the development and manufacturing of highly effective products that have soft-chemistries and bio-enhancements for better crop health and yield.

Citric Acid Liquid 50% Organic

Growth Products' pH Reducer is a safe, organic citric acid solution. This is welcome news for golf course superintendents, farmers, and nursery owners in environmentally sensitive areas and/or those who would like to stay away from corrosive acids when it comes time to adjust a soil or water pH problem.

Growth Products pH Reducer is gentle on turf. With its non-burning formula, you won't run into problems like root pruning, which is quite common when using harsher acids such as phosphoric and sulfuric acid.



SAR Activator

SAR Activator SA is a high quality solution of Salicylic Acid formulation that can be used on citrus, vegetables, tropical fruits, nut trees, and stone fruits. SAR Activator SA enhance plant hardness, and resistance to environmental conditions and attack. Citrus and tomatoes sprayed with SA are known to have reduced damage from insects and pathogens. SAR Activator SA can be mixed with standard N-P-K fertilizers. Apply SAR Activator SA as a foliar spray or through fertigation systems. SAR Activator SA can be mixed with most fungicides, insecticides and other liquid fertilizers. Do NOT mix concentrates together.

TKO Phosphite 0-29-26

TKO Phosphite 0-29-26 is a clear liquid solution that is good for your plants and good for the environment. Unlike other forms of phosphorus, phosphite is highly water soluble and can be quickly absorbed through a plant's leaves, branches, and roots. Once inside a plant, it is extremely mobile and works to rapidly correct deficiencies, enhance plant and root development, and improve crop resistance to disease. An environmentally-friendly product, it prevents excessive build-up of soil phosphorus and prevents problems with ground-water contamination.

TKO Phosphite can be used on crops such as citrus, avocados, strawberries, vegetables and all deciduous and non-deciduous fruits. It can be used as a foliar spray, as a soil application, or through irrigation water. Applied at critical growth stages in a plant's life cycle, it ensures superior root formation, seedling growth, bud formation, blossom and fruit set. It improves both yield and quality of crops, and boosts a plant's resistance to stress and disease.



Companion Fungicide

Companion® Biological Fungicide is a safe, 100 percent natural biological fungicide that both prevents and controls a broad spectrum of root and foliar diseases such as root rot, blight, wilt, bottom- and stem-rot, and bacterial leaf spot (Phytophthora, Pythium, Fusarium, Rhizoctonia, Sclerotinia and Xanthomonas campestris).

A patented biological fungicide unlike any other product on the market, Companion contains the naturally occurring beneficial bacterium known as Bacillus subtilis GB03. The GB03 isolate combats disease pathogens through multiple modes of action. It quickly colonizes a plant's root hairs and literally crowds out disease producing microbes in the soil; it produces antibiotics that disrupt the cell wall formation of pathogens, causing the pathogens to desiccate and die; and it creates a beneficial Induced Systemic Resistance (ISR) whereby plants' own natural immune system is stimulated to better resist diseases. Used alone, in combination with, or in rotation with chemical fungicides, Companion can serve a crucial role in a grower's disease resistance management program.

Companion's GB03 also acts a Plant Growth Promoting Rhizobacterium (PGPR) and bio-Enhancer. It naturally encourages plant growth and produces better rooting, branching and flowering on plants.



The photo above, left, shows the roots of Neanthe Bella Palms before using Companion. After using Companion Biological Fungicide, right, the palms form clean white roots with better root formation.



MGK® develops and markets a broad portfolio of branded insect control products based primarily on natural pyrethrum and synthetic pyrethroids. In addition, we develop custom solutions for insecticide manufacturers around the world that meet a wide variety of insect control requirements. All of our branded products and custom solutions provide effective solutions with a lower environmental impact.

Pyganic 1.4 / Pyganic 5.0

PyGanic® Crop Protection EC 1.4 / 5.0 delivers consistent, reliable knockdown and controls some of the most-damaging and pervasive insects on your crops. Organically-compliant, PyGanic controls a broad-spectrum of insects on virtually every type of crop and requires no pre-harvest interval or restrictions on the number of applications that can be made per year.

PyGanic comes in easy-to-use gallon and quart containers that enable the grower flexibility at the time of application according to pest pressure.

PyGanic is compatible with IPM, farm safety and Worker Protection Standards (WPS) given its user friendly toxicity profile. It is ideal for Organic growers who need insecticide options for hard-to-control insects. PyGanic is made with botanically-derived active ingredients; it has a lower impact on the environment with a high impact on pests.



Azera

MGK's Azera Gardening is an ideal solution for hard-to-kill insects. It is made from two distinctly powerful active ingredients from botanical sources that knock down the pests and kill them either by contact or by ingestion. It kills both hard-bodied and soft-bodied insects, from aphids to beetles.

Azera Gardening can be used on ornamentals, leafy vegetables, fruit and nut trees, cereal grains, forage, grasses and more. Azera Gardening is made with botanically-derived active ingredients that are very effective at killing garden pests.

Tersus

Tersus® Insecticide delivers rapid results for growers who want a fast, consistent on-contact knockdown and control on virtually any crop for the day of the harvest. With a very short re-entry interval, Tersus has a standardized maximum residue level (MRL) across the largest export markets, so it is well suited for a high value export crops. The active ingredient in Tersus is pyrethrins, a botanical insecticide that is non-persistent in the environment, and controls a broad-spectrum of insects such as aphids, thrips, lygus, leafhoppers and many more. Tersus is concentrated and packaged in convenient quart and gallon containers for larger field or orchard applications. One gallon treats up to 28 acres.



Evergreen 5% Organic

EverGreen Pyrethrum Concentrate is a broad spectrum insecticide that can be used in OMRI listed organic production.

- Pyrethrins degrade quickly in sunlight
- Delivers fast, effective control of insects including Ants, Cockroaches, and Stored Product Pests
- Contains unsynthesized pyrethrum – Botanical Insecticide derived from chrysanthemum flower
- Food and Non-Food Areas of Food Handling & Processing facilities
- OMRI Certified for organic use



Evergreen 60-6

EverGreen® Pro 60-6 uses pyrethrins synergized with piperonyl butoxide (PBO) allowing more insecticide to reach the target site in the insect's nervous system.

MGK's highest concentrated Pyrethrin formulation

- 1:10 Pyrethrin to PBO ratio
- Delivers fast, effective insect control
- Labeled for on- and over-animal application



Fine Americas, Inc. focuses on the development, manufacture and marketing of plant growth regulators (PGRs) for the agricultural, greenhouse ornamental and landscape markets and are a recognized center of excellence for PGR technology. We strive to improve our technology to meet the exacting demands of today's quality-conscious growers in more than 40 countries worldwide.



Abide (Generic for A-Rest)

Code: **FAAB1QT**

Abide is a very flexible plant growth regulator for use on ornamental plants grown in containers in nurseries, greenhouses and shadehouses, including bedding plants, bedding plant plugs, bulbs, Easter lilies, poinsettias, chrysanthemums and foliage plants. Abide offers applicator flexibility via foliar spray or soil drench. Use of Abide effectively reduces internode elongation, generating more compact and sturdier plants. Abide also promotes darker green foliage, thereby enhancing their marketability. Abide contains 0.0264% ancymidol.

Size: 1 qt

Citadel (Generic for Cycocel 85 WSG)

Code: **FACIT1G**

Citadel generates effective PGR activity on a broad variety of containerized crops such as poinsettia, geraniums, azaleas, hibiscus, bedding plants and other herbaceous and woody ornamental crops. Citadel reduces plant height by limiting internode elongation through inhibition of gibberellins biosynthesis. Citadel is available in gallon and 30 gallon containers. Citadel can be applied alone or tank-mixed with other plant growth regulators such as Dazide 85 WSG (85% daminozide) to produce high quality plants. On certain crops, a tank mix of Dazide 85 WSG and Citadel can provide a synergistic effect that results in enhanced activity.

Size: 1 gal

Concise (Generic for Sumagic)

Code: **FACON1G**

Concise is an effective growth retardant for use on a broad variety of ornamentals. Concise reduces plant height by limiting internode elongation, producing more desirable, compact and marketable plants. Concise has been shown to increase the quality of plants even in the absence of noticeable growth reduction. These desirable qualities include darker colors, higher chlorophyll content, greater leaf thickness, stronger stems, increased water retention and, at times, increased flower number and size.

Size: 1 gal

Configure

Code: **FACON.5G**

Configure™, the only pure 6-BA plant growth regulator, is an effective product for use on ornamental crops to increase lateral branching and promote flowering in certain ornamental species. In addition, applications of configure may reduce the overall height of the plant resulting in more compact and marketable plants. Configure is also labeled for use on containerized annual and perennial flowering and foliage crops and tropical plants.

Size: 0.5 gal

Dazide (B Nine SP)

Code: **FAD851P, FAD855P**

Dazide 85 WSG is formulated in an easy-to-use, high-quality water soluble granule. Dazide 85 WSG offers effective growth control for a wide range of ornamental plants, including chrysanthemums, gardenias, azaleas, hydrangeas, and poinsettias, as well as petunias, marigolds, and other flowering and foliage plant species. Dazide 85 WSG helps growers manage plant growth and development to ensure plants are more compact, stronger, and better able to cope with transportation or transplanting, thus meeting increasingly stringent customer needs.

Size: 1 lb, 5 lb

Florgibb 4L (Generic For ProGibb T&O)

Code: **FAFG1G**

Florgib contains gibberellic acid (GA3). Gibberellins are compounds that are naturally produced within plants to stimulate growth. Fine has developed a unique fermentation method of naturally producing GA3 and markets the compound for use in ornamental plants as florgib. Florgib has a huge variety of useful applications including elongation of peduncles in Pompom Chrysanthemums, earlier flowering and increased yield in Statice, and accelerated plant growth with increased number of flowering stems in Gypsophila.

Offering flexibility of use, florgib is formulated as a liquid and is easy to handle and measure.

Size: 1 gal

Fresco (Generic for Fascination)

Code: **FAFRE1Q**

Fresco is approved for reduction of leaf yellowing in Easter lily, LA hybrid lily and Asiatic lily. Fine is undertaking work to extend the fresco label to cover other ornamental plant species.

Size: 1 qt

Piccolo (Generic For B-Nine)

Code: **FAPIC1Q, FAPIC1G, FAPIC2.5G**

Piccolo offers control of height and radius across a wide range of ornamental crops. Piccolo enhances the quality of bedding plants, flowering and foliage plants, bulb crops, perennials, and woody ornamentals, making them easier to market and more profitable to produce. Piccolo has given excellent results with leading growers and has been proven in extensive university research trials.

Size: 1 qt, 1 gal, 2.5 gal

Piccolo 10XC

Code: **FAPIC10XC1Q**

10X the strength of Piccolo. Piccolo 10 XC's excellent results have been proven in leading university research trials. It may be applied by spray or drench, and is labeled for use on bedding plants/plugs, flowering and foliage plants, bulb crops, perennials and woody ornamentals.

Size: 1 qt



CHEMICAL ACCESSORIES

American Clay Works carries many products used for protection in application of chemicals, including gloves, tyvek suits and respirators. If you have any questions regarding your protection when applying a product please refer to the chemical's label or call American Clay.

Respirators (Replacement Cartridges Also Available)

3M™ Half Facepiece Respirator Assemblies 6000 Series

3M™ Half Facepiece Respirator Assemblies 6000 Series, with 3M™ Particulate Filters 3M2091 have a lightweight, well-balanced design that contributes to greater worker comfort. This respirator is NIOSH approved for environments containing certain oil and non-oil based particles. For use in a variety of applications including welding, brazing, torch cutting, metal pouring, soldering, and exposure to lead, asbestos, cadmium, arsenic, and MDA for concentrations up to 10 times the Permissible Exposure Limit (PEL).



Survivair Premiere S-Series Half Mask Respirator

The Survivair Premier S-Series is a cartridge silicone half mask that is available in three sizes. One of the easiest breathing respirators of its type, the Survivair Premier incorporates a perspiration port to reduce facepiece slippage and skin irritation. Its low breathing resistance allows for maximum comfort. The Survivair Premier includes a soft sealing flange with rolled edges for increased wearer comfort.

3M™ Full Facepiece 6000 Series Respirators, Reusable

3M™ Full Facepiece Respirators 6000 Series, Resuable bayonet style provides low-maintenance and offers a wide field of vision. These NIOSH approved respirators meet all the requirements of ANSI Z87.1-2003 for high impact (Z87). Lightweight, well-balanced with silicone face seal enhances comfort and durability. Supplied with a resealable storage bag. For use with all 3M™ Particulate Filters and Gas/Vapor Cartridges. This full facepiece reusable respirator offers lightweight comfort and ease of use.



Gloves

Safety Zone Black Nitrile Gloves

Nitrile Gloves are the perfect compromise between latex and vinyl. Nitrile is made from an allergy safe compound that feels a lot like latex but it's much stronger and is more comfortable to wear. Nitrile is perfect for demanding applications, especially cleaning and dishwashing.

Sizes: Small, Medium, Large, XL

High Risk Latex Gloves

High quality Latex Gloves for use in high risk applications. Textured Surface, Low Protein and Contact Sensitizers, Double Chlorinated, Tapered, Beaded Cuff. Box of 50

Sizes: Medium, Large

Other Safety Items

Clear Splash Goggle with Fogless Lens

Code: FS19052559

Moldex Dust Mask: Disposable, Non-Toxic

Code: SEDMM - 50 per box

Standard Dust Mask

Code: SEDMM

Protective Clothing

General Tyvek Work Coveralls

The ideal garment where low cost, effective barrier protection is needed ... covers worker completely with DuPont Tyvek material. Lakeland coveralls are full-cut for comfort and ease of movement. A full length zipper and shirt collar are combined with double seam reinforced construction for durability, economy and practicality. Unique design eliminates top shoulder seams for greater protection from falling dirt or harmful particles.

Code: SETW (White), SETY (Yellow)



NexGen Protective Coveralls

Unique one piece jumpsuit construction offers maximum protection for head to foot coverage. Attached hood and boots are fully cut to allow ease of movement under most working situations. Elastic in hood gathers tightly for positive closure while elastic wrist makes for a complete protective barrier.

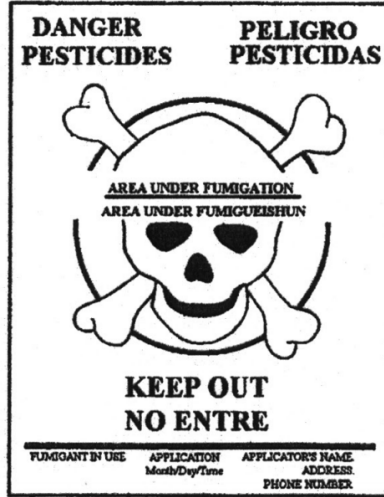
Code: Hood and Boot Coveralls

- FS190882147 (XL)
- FS190882146 (L)
- FS190882145 (M)
- FS190882144 (S)





Pesticide Application Signs and Charts



Protect Yourself from Pesticides / Protejese de los Pesticidas

IN AN EMERGENCY, IN UNA EMERGENCIA

Get medical help immediately. Siempre consulte médica o enfermera.

If you need an ambulance, tell them where you are. Si usted necesita una ambulancia, díganos dónde se encuentran.

If you have questions or concerns, call the pesticide regulatory agency. Si tiene preguntas o inquietudes, llame a la agencia reguladora de pesticidas.

FOR MEDICAL TREATMENT INFORMATION, CALL THE POISON CONTROL CENTER: 1-800-222-1222. PARA INFORMACIÓN SOBRE TRATAMIENTO MÉDICO, LLAME AL CENTRO DE CONTROL DE ENFERMEDADES: 1-800-222-1222.

PERC

Avoid getting pesticides on your skin or in your body. Pesticides can be in many places. They can be on plants, surfaces, in soil, and in insects when pesticides are used in or near nearby applications. They can also be on tractors and other equipment. Pesticides can also be found on food and clothing. Shoes, hats, and other personal protective equipment.

Stay off of treated areas when hot, wet, or when you are tired. Stay off the cloth draped. When you see a pesticide application sign, stop. Stop. Stop. Stop. Stop. Do not touch or use treated areas. Do not drink or eat from treated areas. Do not use treated areas until the pesticide has dried. Do not use treated areas until the pesticide has dried. Do not use treated areas until the pesticide has dried.

Wash your hands before you eat, drink, or sleep. Wash your hands before you eat, drink, or sleep. Wash your hands before you eat, drink, or sleep.

Wash your body and hair with soap or shampoo right after work, then pat it dry. Lávate el cuerpo y el cabello con jabón o champú inmediatamente después del trabajo. Sécate después de lavarte.

Wash your work clothes before wearing them again. Wash them separately from other clothes. Lávate las ropas de trabajo antes de volver a usarlas. Lávate las ropas de trabajo aparte.

Get medical help as soon as possible if you think pesticides are on your skin. Get medical help as soon as possible if you think pesticides are on your skin. Get medical help as soon as possible if you think pesticides are on your skin.

Pesticide Application Record for _____ (greenhouse, nursery, farm unit, company name, etc.)

Year: Date (Mo/Da) Time	Crop or Commodity	Location or Greenhouse	# of units Sq. Ft. or Acres	EPA Registration Numbers	Active Ingredient Brand or Product Name	Total Amount (oz., lb., pt., qt., gal. indicator)	PPE Requirements: Handwear/Workwear/ Applicators	REI Duration (Hours)	REI Expiration (Mo/Da/Time)

Nearest Emergency Medical Facility is located at:

Name _____

Street _____

City _____

Phone _____

Emergency Phone Numbers

Poison Control Center _____

Spill Response DNR _____

Sheriff/Police _____

Fire Department _____

The EPA has new requirements for posting areas treated with pesticides. *The items required are as follows:*

- (1) Federal Worker Protection Standard in two languages
- (2) Pesticide Safety Poster
- (3) Combination emergency information sign
- (4) Pesticide Application posting sign
- (5) Pesticide Application record tablet