

## 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.**

### Actino Iron

**Code: MMACT50P**

A unique soil additive for preventative suppression/control of root rot and damping off fungi such as Pythium, Rhizoctonia, Phytophthora, Fusarium and many others. The active ingredient in Actino-Iron®, *Streptomyces lydicus* strain WYEC 108, is a naturally occurring beneficial soil bacterium. When applied to the soil it grows around the root system of plants, protecting them from harmful soil pathogens. While in the root system this unique microbe also produces powerful anti-fungal by-products that are highly destructive to disease causing fungi. Additionally, this microbe will act as a predator and attack certain fungi, disabling them in the process. Its root colonization ability, antifungal by-products production and predatory action make Actino-Iron® a powerful weapon in pest management.

**Size: 50 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.**

### Captan

**Code: FUNCAP5P**

Controls a broad range of disease including Anthracnose, Downy Mildew, early and late Blights. Controls Brown Patch, Leaf Spot, damp-off and most rots in lawns. **Size: 5 lb. bag**

### 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.**

### Chipco 26019

**Code: FUNCHI2P**

An outstanding fungicide for Botrytis Blight, In Spot, Tulip Fire or Ray Blight. **Size: 2 lb.**

### Chloratholnil DF (Generic for Daconil Ultrex)

**Code: QPCHLOR5P**

Daconil is for use on golf course tees, fairways, greens, non-residential turfgrasses, ornamental turfgrasses including sod. Daconil controls 14 diseases, including dollar spot, brown patch, gray leaf spot, algae, leaf spot, melting out, anthracnose, rust, Fusarium patch, Gray snow mold and red thread. Active ingredient: Chlorothalonil. **Size: 5 lb.**

### 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 rate 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.**

### Compass

**Code: FUNCOM8OZ**

Kills Fungus and Disease on Turf, Shrubs  
Active Ingredient: Trifloxystrobin 50.00%

Compass is a premium professional contact fungicide for use on lawns and ornamentals. A broad spectrum product that controls many types of fungus and disease. Each 2 ounce bottle will cover about 8,000 square feet.

**Size: 8 oz.**

### Cygnus

**Code: FUNCIG1P**

Cygnus was the first fungicide developed to prevent or cure "stroby" class fungi. Once applied, Cygnus diffuses laterally, providing great coverage. And it stays put, with excellent rainfastness, extremely low vapor pressure and slow uptake properties. This combination of features makes Cygnus especially effective against a variety of scab, powdery mildew, leaf spot, rusts, anthracnose and down mildews. When you need to combat fungi, ask for Cygnus, only from Scotts.

**Size: 1 lb.**

### Decree

**Code: FUNDEC2.5P**

Decree Fungicide is a new non-systemic fungicide, belonging to a new class of chemistry called hydroxyanilides, which has been developed for use on ornamentals. DECREE fungicide has been tested since 1989, and has proven to be a very effective tool for the control of Botrytis and potentially other ornamental pathogens. Investigations have shown Decree to prevent infection of Botrytis spores as well as inhibiting sporulation of Botrytis. **Size: 2.5 lb.**

### 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.**

## Fungicides

### OxiDate - Broad Spectrum Fungicide

**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.**

### Pipron EC

**Code: FUNPIPIQ**

For control of Powdery Mildew on a variety of ornamentals. Used as an eradicant. **Size: 1 qt.**

### 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.**

### 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. **Size 1/2 lb.**

### Subdue-Max

**Code: FUNSUBIQ**

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.

**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.**

### Terrachlor 75 WP

**Code: FUNTER5P**

A fungicide for control of stem rot Rhizoctonia on African violets, Begonias, Carnations, Chrysanthemums, Poinsettias, Snapdragons, and similar bedding plants.

**Size: 5 lb.**

### TerraCyte

**Code: FUNT70LB**

TerraCyte is a uniquely formulated granular algaecide/fungicide that will control moss, liverwort, algae and slimes on potted crops. TerraCyte's mode of action is oxidation, a powerful chemical reaction that reacts with proteins and enzymes found in cell membranes of microbial organisms. It can be applied on benches and planters for ornamental plants grown in greenhouses, outdoor nurseries and landscapes. **Size: 50 lb.**

### Truban 25% EC

**Code: FUNTRUIQ**

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.**

### 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

### Envoy® Herbicide

**Code: HERVALENV1G - 1 Gal, HERVALENV1Q - 1 Qt**

Before your nursery is overgrown with grassy weeds, go over the top with Envoy® Herbicide. Envoy delivers complete and consistent postemergent control of annual and perennial grasses with no injury to most valuable shrubs and trees. Envoy is rainfast in one hour and presents no soil carryover problems. It can be applied to garden flowers and foliage plants, around ornamental trees and Christmas trees and in non-crop areas to control grasses at heights up to 24 inches.

### Jewel

**Code: HERJEWEL50P - 50P**

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.

### OH2

**Code: HERORNI50P - 50 Lb.**

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.

### Pennant

**Code: HERPEN40P - 40 Lb.**

Pennant Liquid Herbicide contains the active ingredient Metolachlor which is a selective preemergence herbicide surface applied for the control and suppression of many grasses and broadleaf weeds in turf and landscape ornamentals including roses. The trouble with some pre-emergence herbicides is that they kill germinating weeds and grasses by attacking the roots. And while that approach is logical from a weed control standpoint, it can cause problems with growing roots of the plants that you're trying to protect. Pennant works by attacking, not the roots, but the shoots of germinating weeds. So it kills the weeds, but won't stunt, or otherwise stifle your ornamentals.

### Poast

**Code: HERPOA1P - 1 Pint**

Poast is a post-emergent herbicides used to control grasses (i.e., crabgrass, goosegrass, and annual bluegrass).

### ProDeuce

**Code: NFPRODEUCE64OZ - 64 Oz.**

ProDeuce is a dual action herbicide that combines the pre-emergent, residual activity of prodiamine, 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.

### Regalkade

**Code: HERREG50P - 50 Lb.**

Regalkade is a highly effective preemergence herbicide (Prodiamine), designed to give control for up to 5 months in container & field grown ornamentals, established perennial & wildflower plantings and conifer & hardwood seedling nurseries. Controls a wide variety of weeds & grasses. Rate: 100 lb. to 300 lb. per acre.

### Ronstar G

**Code: HERRON50P - 50 Lb.**

Selective, preemergent herbicide for control of many annual grasses and broadleaf weeds in turf and on a wide variety of container and field grown woody ornamental shrubs, vines, and trees. Controls weeds by killing the young weed seedlings as they come in contact with the herbicide during germination. Apply Chipco Ronstar G with a properly calibrated granular applicator that will apply the granules uniformly. Apply Chipco Ronstar G anytime during the year, prior to seed germination for weed control. Can be applied to both newly transplanted and established container or field grown ornamentals, either actively growing or dormant. Rainfall or overhead irrigation after application will improve weed control activity. Should not be mixed into soil.

### Razor Pro (Glyphosate) 1 gal, 2.5 gal, 30 gal

**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.

### Rout

**Code: HERROU50P - 50 Lbs.**

Rout provides broad preemergent control and plant safety for container and field grown ornamentals. Each Rout granule contains both Goal and Surflan herbicides which work together for a greater total effect. Residual activity keeps the weeds out for up to three months.

### Scythe

**Code: HERSCY2.5G - 2.5 Gal.**

A liquid herbicide labeled for use in a greenhouse. Scythe is a contact type product resulting in fast weed knockdown. Scythe is a non volatile product so danger of fumes is reduced.

### Surflan / Prozalin / Orzalin

**Code: HERSUR2.5G - 2.5 Gal.**

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

### Treflan (Trifluralin)

**Code: HERTRE40P - 40 Lbs.**

Preemergent herbicide widely used before or after transplanting potted annuals, nursery liners or gladiolus corms 1" or bigger. TREFLAN is not effective against ragweed, cocklebur, or nutgrass or in mucky soils (See Surflan).

## Insecticides

### Acephate E 75 (Orthene)

**Code: NFACP751P - 1 lb.**

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.

### Abamectin 0.15 EC (AVID) (Biological Bacterial Waste)

**Code: NFABAM1Q - 1 Qt.**

A very effective broad spectrum product. Avid is translaminar and effective on leafminers, spider mites and aphids.. A contact and stomach poison.

### Agri-Strep (Streptomycin Sulfate)

**Code: INSAS2P - 2 Lbs.**

Controls bacteria, plant diseases such as Fire Blight (fruit trees), Chrysanthemum Bacterial Wilt, and Bacterial Spot for tomatoes.

### All Pro Insecticidal Soap

**Code: INSIS2.5G - 2.5 Gal.**

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. It controls Adelgids, Aphids, Crickets, Earwigs, Fruitfly adults, Fungi Gnats, Grasshoppers, Lace bugs, Leaf hoppers, Mealybugs, Mites, Plant bugs, Psyllids, Sawflies, Scale, Spittlebugs, Springtails, Ten Caterpillars, Thrip, Whitefly, and Woolly Aphids. M-pede Insecticide Soap may be used on foliage plants, flowers, shrubs, trees vegetables, fruits and nuts in and around homes, greenhouse: and nurseries.

### Carbaryl

**Code: INSCAR2.5G - 2.5 Gal**

Carbaryl 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).

### Conserve

**Code: FUNCON1Q - 1 Qt.**

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.

### Corry's Slug and Snail Death

**Code: INSSSD12P - 12 Lbs.**

- Fast, Effective Ready-to-Use Formula.
- Approved for lawns, ornamentals, fruit, vegetable, and flower gardens.
- Attracts and Kills far more slugs and snails than other controls.
- Long Lasting - Resists rain and sprinkling.

### Decathalon

**Code: INSDEC.5P - .5 Lb.**

A broad spectrum insecticide which is fast acting and has a long lasting residual activity.

### 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. Endeavor is also extremely effective against sap-sucking whiteflies. **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.**

### Imida E-Pro 2F (Generic for Marathon 2F)

**Code: NFMANTRAEPRO1Q - 1 Quart**

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

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

### Imida E-Pro 60 WSP (Generic for Marathon 60%)

**Code: NFIMIDAEPRO**

Easy-handling WSP Formulation of Imidacloprid for broad spectrum control of sucking and piercing insects on ornamentals.

**EACH UNIT OF SALE IS 100 GRAM PER UNIT (5 20gram packs)**

### 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.**

### Mallet 75WSP (Generic for Merit 75WP)

**Code: NFMALLET75WSP**

For use ornamentals in 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. Available in a 1.6 ounce package.

**Size: 1.6 oz.**

### Pylon

**Code: INSPPYL1P - 1 pint**

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.



American Clay Works has developed a relationship with Fine America's, Inc chemical company. Fine is a top quality manufacturer specializing in Plant Growth Regulators. Product quality is of paramount importance to Fine. Strict controls are in place to ensure that all products are of the highest possible quality. Fine was one of the first agricultural companies to achieve ISO9001 accreditation in 1992. Fine manufactures PGRs within the US and the EU.

### **Abide (Generic for A-Rest)**

**Code: FAAB1QT - 1 Qt.**

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.

### **Citadel (Generic for Cycocel 85 WSG)**

**Code: FACIT1G - 1 Gal.**

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.

### **Concise (Generic for Sumagic)**

**Code: FACON1G - 1 Gal.**

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.

### **Configure**

**Code: FACON.5G - 0.5 Gal.**

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.

### **Dazide (B Nine SP)**

**Code: FAD851P - 1 Lb., FAD855P - 5 Lb.**

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.

### **Florgibb 4L (Generic For ProGibb T&O)**

**Code: FAFG1G - 1 Gallon**

Florgibb 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 florgibb.

Florgibb 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, florgibb is formulated as a liquid and is easy to handle and measure.

### **Fresco (Generic for Fascination)**

**Code: FAFRE1Q - 1 Qt.**

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.

### **Piccolo (Generic For B-Nine)**

**Code: FAPIC1Q - 1 Qt., FAPIC1G - 1 Gal., FAPIC2.5G - 2.5 Gal**

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.

## Whitmire Micro-Gen

### Green-Shield® Disinfectant & Algacide

An efficient, cost effective way to control fungal, bacterial and viral plant pathogens plus algae in the greenhouse, nursery or farm.

Green-Shield® stays effective longer and controls a much wider spectrum of disease causing organisms than bleach at a comparable cost-in-use.

No REI.

1 Gal. Code: WRL09-2002  
 15 Gal. Code: WRL09-2004  
 15 Gal. Drum Code: WRL09-2003



### Tame/Orthene TR

Ready-to-use, ultra low volume insecticide fogger that controls a wide variety of greenhouse insects, including mites.

Tame is a registered trademark of Valent USA Corporation

Orthene is a registered trademark of OMS Investment, Inc. for acephate insecticide

16 oz. Code: WRL09-TAMEORT



### Pure Spray Oil OMRI Certified

A highly refined, year-round, broad spectrum insecticide/miticide/fungicide with an excellent plant safety record. Use on a wide array of edible and ornamental greenhouse, nursery, orchard and field crops. Features low mammalian toxicity, no odor, plus beneficials compatibility. Offers excellent economy in use.

4 hr. REI.

1 Quart Code: WRL09-2305  
 1 Gallon Code: WRL09-2306



### Preclude® TR Micro Total Release

A TR greenhouse aerosol formulation containing fenoxycarb, a juvenile hormone mimic. Use in full cycle strategies to disrupt development of early immature pest stages. Excellent on Thrips and Whiteflies. Compatible with many beneficials.

12 hr. REI

PT2120 Preclude 20Z-12 Code: WRL09-2120  
 PT2121 Preclude 60Z-12 Code: WRL09-2121



# Whitmire Micro-Gen

## 1300 Orthene® TR Micro Total Release

A ULV greenhouse aerosol formulation containing acephate, one of today's most effective and widely used insecticides. Labeled for use on Aphids, Thrips, White-flies, Scale, Mealybugs, Fungus Gnats, Mites and more. Safe on blooms and bracts.

24 hr. REI

Orthene 6 oz.

Code: WRL09-1321



## Attain® TR and Attain Quart Total Release

A ULV greenhouse aerosol formulation containing bifenthrin (Talstar®). This leading ornamental insecticide is broadly labeled for most greenhouse pests. Especially effective on Aphids, Whiteflies, Fungus Gnats, and is a true miticide. Safe on blooms and bracts.

12 hr. REI

1 Quart.

Code: WRL-1837

2 oz. Total Release

Code: WRL09-1820



## 1600 X-Clude® Timed-Release Pyrethrins

Directed spray aerosol for use in hobby greenhouses, homes, interiorscapes and landscapes on flowering plants, foliage and other ornamentals. Pyrethrins are microencapsulated for longer term release and increased plant safety. No chemical odor. Not for use in commercial greenhouses. OK for resale.

PT 1600 X-Clude 20 oz.

Code: WRL09-1620



## 1100 Pyrethrum TR Total Release

A ULV greenhouse aerosol formulation labeled for most greenhouse pests on a wide variety of greenhouse crops. Including vegetables and herbs.

12 hr. REI

2 oz.

Code: WRL09-1120

6 oz.

Code: WRL09-1121



## Pyreth-It™

### A 6% Natural Pyrethrum

Synergized with 60% PBO.

12 hr. REI

1 qt.

Code: WRL10-1134

1 gal.

Code: WRL10-1135

## MONITORING CARDS

Provide the monitoring that is basic to a successful implementation of a prescription treatment strategy. Monitoring Cards are coated on both sides with release paper. 48 pe pack

PT 24 Yellow Monitoring Cards 3" x 5"

ITEM NO.

WRL09-0025-48



Chemicals

**PredaSCENT**

**Code: INSNAT1G**

How the PEGG System Works:

Each PEGG polymerized capsule contains an all natural predator scent which is time released over a 4 to 5 week period.

Instructions for Use:

Drop PEGGs on the ground 4 to 5 feet apart to create a perimeter barrier around plant and garden areas. Soak PEGGs with water. PEGGs will absorb moisture and immediately start releasing a scent that lasts 4 to 5 weeks. Watering actually helps the product work.

Reapplication is not necessary after rain or snow.

Product Benefits:

Sealed, pre-measured PEGGs deliver maximum effectiveness without direct contact with active ingredients. Apply any time day or night in all weather conditions.

Available in the following formulations:

Deer/Rabbit, Geese/Groundhog, Mole/Vole.

All are available in 20 pack, 150 pack or 1200 pack quantities.

**Nemasys**

**Code: INSNAT1G**

Fungus Gnat larvae can cause devastating damage by attacking roots.

Protect your plants with Nemasys, a strain of the insect pathogenic nematode *steinernema feltiae*.

**Size: 1 gal.**

**Rhizanova Tree Transplant**

Increase water absorption, nutrient availability and survival rates of trees, shrubs and ornamental flowers with Rhizanova™. Get your trees off to a fast start and give them the best chance of root colonization. Rhizanova puts the fungal inoculum at the roots where the opportunity for contact with feeder roots is highest. Tree Transplant is an Endo/Ectomycorrhizal inoculant blend with humic acid, water absorbent polymer and organic nutrients.

**3 oz. Code: BUTT3OZ**

**25 lb. Code: BUTT25OZ**

**Sprint 330 and 138**

High Performance Iron Chelates for Foliar and Soil Applications in Turf

For dark green, healthy plants, Sprint® 330 and Sprint 138 iron chelates are unquestionably the best iron products available. Unlike non-chelated or weakly chelated irons, the strong Sprint iron chelates maintain and protect plant available iron in turf, containerized and field grown plants, trees and shrubs.

Sprint 330:

- 10 percent fully chelated DTPA iron
- performs best in slightly acidic to slightly alkaline soils with a pH of up to 7.5

Sprint 138:

- 6 percent fully chelated EDDHA iron
- for soils that are alkaline and calcareous, including soils with a pH greater than 7.0

**5# 330 Code: BUS5LB**

**5# 138 Code: BUS5LB138**

**Wood's Rooting Compound - Rooting Hormones Synergist**

Soluble concentrate stimulates rooting of herbaceous and woody cuttings. The IBA and NAA stay in suspension allowing the inert ingredients to stimulate the absorption easier and better for a higher success rate.

**Dilution Rate:**

Herbaceous or softwood - 1 pint to 20 parts water

Medium hardwood - 1 pint to 10 parts water

Hardwood - 1 pint to 5 parts water

**1 gal. Code: MISRC1G**

**1 pint Code: MISRC1P**

**Hormodine - Rooting Hormones Synergist**

Hormodine Rooting Compound is available in three different formulas.

.1% Hormodine #1 is an IBA in powder form for herbaceous plants. .2%

Hormodine #2 is used for herbaceous and woody plants. .3% Hormodine

#3 is used for woody plants.

**.1% 1 lb. Code: MIS#1HOR1P**

**.2% 1 lb. Code: MIS#2HOR1P**

**.3% 8 oz. Code: MIS#3HOR8OZ**

**WaterWorks Crystals®**

WaterWorks Crystals® is a completely non-toxic superabsorbent cross-linked polymer, capable of absorbing up to 400 times its weight in rain or irrigation water, and a percentage of water-soluble nutrients and fertilizers, making almost 100% of that water and nutrients available to plant roots.

**24 2oz. Packs Code: WC2X24**

**55 lbs. Code: WC55P**

**Agrosoke**

Agrosoke root watering crystals can assist anyone who plants color beds, trees, shrubs, sod, native plants, and grasses. Agrosoke is a must for the progressive landscape contractor. Agrosoke utilized into all plantings will not only reduce watering frequency, but assist in establishing optimum plant development and soil health. Agrosoke functions as a soil amendment reducing compaction.

**1 lb. Code: A1P**

**5 lbs. Code: A5P**

**25 lbs. Code: A25P**

**55 lbs. Code: A55P**

**LeafShield™ Antitranspirant**

Trees and shrubs sprayed with LeafShield™ prior to planting have a better chance of quick establishment and long-term survival. LeafShield helps limit moisture loss by covering the leaf surface with a thin, flexible waxy layer. It's easy to use, less sticky and less expensive than similar products. Ask for LeafShield, only from Scotts.

**1 gal. Code: MISFOL1G**

**5 gal. Code: MISFOL5G**



# BioWorks®

**BioWorks, Inc.**

BioWorks is a supplier to the agriculture industry of biological control products and biotechnologies that enhance plant health, plant productivity and consumer and worker safety. Utilizing intellectual properties obtained under an exclusive licensing agreement with Cornell Research Foundation, an affiliate of Cornell University, BioWorks currently develops, manufactures and markets fungal based biocontrol products.

**Chemicals**

## RootShield®

**Granules**

RootShield is the highly-effective, beneficial fungus *Trichoderma harzianum* strain T-22, a special hybrid strain developed in a university microbial breeding program. It provides natural, season-long control of root diseases because it grows on the entire plant root system (root colonization). Most importantly, it is non-toxic to humans, animals and is environmentally safe.

RootShield protects roots from diseases caused by *Pythium*, *Rhizoctonia* and *Fusarium* and permits stronger, healthier root systems. It allows greater soil exploration and enhanced nutrient uptake.

### HOW DO I APPLY ROOTSHIELD?

- No special equipment is required, saving time and money.
- Compatible with many chemical pesticides (see compatibility chart).
- Compatible with mycorrhizal fungi.
- Can be applied with fertilizer.
- Product granted "Exemption from Tolerance" for added safety.

**40 lb. Bag**

**Code: BWRS40P**

## PlantShield® HC

**Wettable Powder**

### Attacks Fungal Root Diseases Before You See Them

A preventative biological (living) fungicide that attacks diseases.

- Starts immediately protecting the delicate root system.
- Grows on root and root hair surfaces, and surrounding soil particles.
- Actively attacks *Pythium*, *Fusarium* and *Rhizoctonia* before they reach the root system.
- Promotes faster root development, especially feeder root hairs.
- Provides bigger root systems for greater soil exploration.
- Provides prolonged protection against root damaging fungi.
- Increases root mass, enabling greater nutrient and moisture uptake.
- The active ingredient in RootShield releases compounds that make nutrients more available to the plant.
- Reduces or eliminates the need for chemical fungicides.

**3 lb. Bag**

**Code: BWPS3P**

## MilStop™

**Broad Spectrum Foliar Fungicide**

### Water Soluable Broad Spectrum Foliar Fungicide

Choose MilStop for curative control of powdery mildews and preventative control of most other foliar diseases. MilStop is an EPA-registered, potassium bicarbonate based foliar fungicide that kills on contact by pulling water from spores and infecting threads. It also inhibits enzymes involved in fungal cell wall formation by altering the pH on the leaf surface. There is no known resistance to MilStop; an excellent disease management tool as a stand alone fungicide for foliar disease control or alternated as part of an integrated pest management program.

- Use at or before the first sign of disease.
- Effective on interiorscape, greenhouse, nursery, woody, herbs and field crops.
- Fully dissolves in water; no unsightly residue, dries quick, dries clean.
- Cost effective, comes pre-formulated with spreader/sticker.
- University tested and proven to be effective.

**5 lb. Bag**

**Code: BWMS5P**

## Important Pesticide Information

Please read and follow label directions carefully. Pesticides are still the first line of defense in the management of pests in most instances. They are highly effective, economical, can be quickly applied and have an immediate effect on insect populations. They must be used carefully because any control materials which can eliminate insect pests, fungi and unwanted plant materials can also have lethal potentials for the careless or improper user. Also, pesticides are not the complete answer and many situations require mechanical, physical and cultural control to obtain a complete pest management program.

Descriptions of the pesticides listed are condensed from product labels for your convenience. They do not take the place of the label nor constitute a recommendation. **Consult your American Clay representative for more details. It is vital to read and follow the label - the label is the law - it is a legal document.**

## Insects and Recommended Controls

**APHIDS:** Enstar, Insecticidal Soap, Orthene PT 1320, PT 1100, Endeavor, Tame/Orthene, Mantra, and Imida E-Pro.

**CABBAGE LOPPERS:** Dipel and PT 1600 Exlude.

**FUNGUS GNATS:** Gnatrol, Mantra and Imida E-Pro.

**GRASSHOPPERS:** Carbaryl.

**LEAFMINERS:** Abamectin and Orthene.

**MEALYBUGS:** Enstar, Insecticidal Soap, Orthene, Carbaryl, Mallet, and Sun Oil.

**RED SPIDER MITES:** Insecticidal Soap, Talstar, Conserve, Floramite, Pylon, and Abamectin.

**SCALE:** Enstar, Insecticidal Soap, Orthene, Carbaryl, and PT 1300.

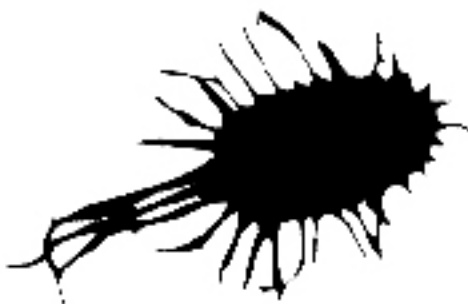
**SLUGS:** Corry's Slug & Snail Death.

**THRIP:** Orthene, PT 1320, PT 1600 Exlude, Carbaryl and Conserve.

**WHITEFLY:** Enstar, Insecticidal Soap, Mantra, Imida E-Pro, Tame/Orthene, and Endeavor.

**Descriptions of the pesticides listed are condensed from product labels for your convenience. They do not take the place of the label nor constitute a recommendation.**

Please follow all instructions and application rates detailed on the label of each chemical.



# Conversion Table for Chemicals

To determine Parts Per Million (ppm) of an element in a fertilizer, simply multiply the percent of that element by 75. The answer will be the ppm of the element per ounce of the fertilizer in 100 gallons of water.

For Instance, how much 20-20-20 fertilizer should you use to get a 200 ppm nitrogen solution? EXAMPLE:  $.20 \times 75 = 15$  ppm (% of nitrogen element in fertilizer multiplied by 75) / 200 divided by 15 = 13.3 oz. (desired ppm solution divided by ppm per oz.) / 13.3 oz. of fertilizer are required to produce a 200 ppm nitrogen solution in 100 gallons of H<sub>2</sub>O.

## EQUIVALENT TABLE

Most of the commercial containers of insecticides, fungicides, etc., give directions on using the chemical in 100 gallons of water. The following table can be used to determine the quantity of chemical when using less than 100 gallons of spray material.

### LIQUID EQUIVALENT TABLE

100 Gallons	25 Gallons	12 1/2 Gallons	5 Gallons	1 Gallon
2 gal.	2 qt.	1 qt.	12 7/8 oz.	2 1/2 oz.
1 gal.	1 qt.	1 pt.	6 1/2 oz.	1 1/4 oz.
2 qts.	1 pt.	8 oz.	3 1/4 oz.	5/8 oz.
1 qt.	1/2 pt.	4 oz.	1 9/16 oz.	5/16 oz.
1 1/2 pt.	6 oz.	3 oz.	1 1/4 oz.	1/4 oz.
1 pt.	4 oz.	2 oz.	7/8 oz.	3/16 oz.
8 oz.	2 oz.	1 oz.	7/16 oz.	1/2 tsp.
4 oz.	1 oz.	1/2 oz.	1/4 oz.	1/4 tsp.

### SOLID EQUIVALENT TABLE

100 Gallons	25 Gallons	12 1/2 Gallons	5 Gallons	1 Gallon
4 oz.	1 oz.	1/2 oz.	3/16 oz.	1/4 tsp.
8 oz.	2 oz.	1 oz.	3/8 oz.	1/2 tsp.
1 lb.	4 oz.	2 oz.	7/8 oz.	1 tsp.
2 lbs.	8 oz.	4 oz.	1 3/4 oz.	2 tsp.
3 lbs.	12 oz.	6 oz.	2 3/8 oz.	2 2/5 tsp.
4 lbs.	1 lb.	8 oz.	3 1/4 oz.	3 4/5 tsp.
5 lbs.	1 1/4 lbs.	12 oz.	4 oz.	4 4/5 tsp.

### DILUTION RATIOS FOR MIST SPRAYERS

Amount of Material 100 Gallon in Hydraulic Hydraulic Sprayers	AMOUNT OF LIQUID CONCENTRATE TO MAKE A 25 - X CONCENTRATION			
	25 Gallons	10 Gallons	2 Gallons	1 Gallon
1 Pint	6 1/4 Pints	2 1/2 Pints	8 Fl. oz.	4 fl. oz.
1 Quart	6 1/4 Quarts	5 Pints	1 Pint	8 fl. oz.
2 Quarts	3.1 Gallons	5 Quarts	1 Quart	1 Pint
1 Gallon	6 1/4 Gallons	2 1/2 Gallons	2 Quarts	1 Quart

### DILUTION OF LIQUID PESTICIDES AT VARIOUS CONCENTRATIONS

Dilution	1 Gallon	3 Gallons	5 Gallons	15 Gallons
1 -100	2 tbs. + 2 tsp.	1/2 cup	3/4 cup + 5 tsp.	2 1/2 cups
1 -200	4 tsp.	1/4 cup	6 1/2 tbs.	1 1/4 cups
1 -400	2 tsp.	2 tbs.	3 tbs.	10 tbs.
1 -800	1 tsp.	1 tbs.	1 tbs. + 2 tsp.	5 tbs.
1 -1000	3/4 tsp.	2 1/4 tsp.	1 tbs. + 1 tsp.	4 tbs.



# 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 and Filters

### Wilson Half Mask Respirator

The Wilson P95 Half Mask Respirator is a high quality respirator with a silicone face piece for comfort. Included are 2 P95 filter cartridges and canisters. The cartridge fitting on this mask also allows for replacement with other Wilson manufactured cartridges.

**Code: FS176315**

### Full Faceplate Respirator

For added protection, we also sell Full Faceplate Respirators with a polycarbonate protective lense.

**Code: SE6411**

### Dust Mask

Lightweight and disposable, dust masks help protect from everyday dust particles. 50 per box.

**Code: SEDM**

### P95 Refil Filters

P95 Filters eliminate 95% of paint and pesticide particles.

**Code: FS19003442**

### P100 Replacement Cartridge and Filter

P100 Filters eliminate 99.997% of paint and pesticide particles.

Available individually, but two are needed to attach to a respirator.

**Code: FS18991308**

## Variety Items

Clear Splash Goggle with Fogless Lens

**Code: FS19052559**

Moldex Dust Mask: Disposable, Non-Toxic

**Code: SEDMM - 50 per box**

## Gloves

### Latex Exam Gloves

Surgical type, .005" thickness, 100 per box.

**Codes: SEGLDL - Large, SEGLDM - Medium, SEGLDS - Small, SEGLDSS - Small Small**

### Nitrile Gloves

Green Nitrile Gloves, .011" thickness, sold by pair.

**Codes: SEGN11 - Size 11, SEGN10 - Size 10, SEGN9 - Size 9, SEGN8 - Size 8, SEGN7 - Size 7**

### 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

**Codes: SEHRG-L - Large, SEHRG-M - Medium**

## Tyvek Protective Clothing

Tyvek spunbound olefin is a unique DuPont Material that offers strength and provides an excellent barrier to many dry particulates, including asbestos, lead dust, and radioactive dusts. Tyvek QC is a film coated material that gives splash protection against many bases, acids and other liquid chemicals. Although uncoated Tyvek provides some liquid splash protection, it is not suggested for use against liquid chemicals or gases because chemical permeation from continual exposure occurs quickly. Tyvek and Tyvek QC should not be used around heat, flame, sparks or in potentially flammable atmospheres.

### 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. Coveralls are offered in White and Yellow. Sold by each. Please specify Small, Medium, Large or Extra Large.

**Code: SETW - White Coverall, zipper closure**

**Code: SETY - Yellow Coverall, zipper closure**

### 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. Sold by each. Please specify Small, Medium, Large, or Extra Large.

**Code: Coveralls - FS190882140 - XLarge, FS190882139 Large, FS19002138 - Medium, FS190882137 - Small**

**Code: Hood and Boot Coveralls - FS190882147 - XLarge, FS190882146 - Large, FS190882145 -Medium, FS190882144 - Small**

