

Quick Reference Product Guide



Volume IV

Greenhouse and Nursery Production

- Fungicides
- Insecticides/Miticides/IGRs
- Wetting Agents
- Herbicides
- Plant Growth Regulators



Fungicides

Aliette® WDG

Aliette WDG brand fungicide is a systemic fungicide that may be applied to a wide range of ornamental flowering and foliage plants as a foliar spray, drench, or as a dip for control of diseases caused by pythium, phytophthora, and downy mildew.

Aliette WDG can also be used for suppression of bacterial blight caused by certain pathovars of *Xanthomonas campestris*.

Labeled for use on: Ornamentals and bedding plants grown in field nursery, greenhouse, and conifer nursery situations. (Not labeled on conifer nurseries in California.)

Diseases Controlled: Pythium, Phytophthora and Downy Mildew. Also suppression of bacterial blight.

Packaging: 5 lbs. container, 4 per case

Notes: To avoid undesirable copper phytotoxicity, do not apply **Aliette WDG** and copper-based compounds at less than 14-day intervals.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-890	12 hours	Ethyl Phosphonates	33	Fosetyl-Al	1.25, 2.5, 5.0 pounds	1 1/4 tsp, 2 1/2 tsp, 5 tsp	Spray or drench

Compass® O

Compass O is a mesostemic fungicide that provides 14-21 days of control on a variety of pathogens. **Compass O** offers both contact as well as translaminar control at very low rates. Use **Compass O** in a rotation with Strike or a variety of other fungicides for a season of pathogen clean growing.

Labeled for use on: Ornamentals grown in the greenhouse, nursery, and interiorscapes.

Diseases Controlled: Powdery Mildew, Botrytis, Anthracnose, Septoria Leaf Spot, Myrothecium, Rust, Scab, Blackspot, Downy Mildew, Rhizoctonia Root Rot.

Packaging: 1 lbs. container, 4 per case

Notes: Use in rotation with products like Strike for excellent control of Powdery Mildew as well as other pathogens.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-1371-59807	12 hours	Strobilurin	11	Trifloxystrobin	1 to 4 ounces	1/10 tsp to 1/3 tsp	Drench or foliar spray

Disarm® O

Disarm O is an upward systemic fungicide that provides 14-21 days of control on a variety of pathogens. **Disarm O** offers both contact as well as translaminar control at very low rates. Use **Disarm O** in a rotation with Strike or a variety of other fungicides for a season of pathogen clean growing.

Labeled for use on: Ornamentals grown in the greenhouse, nursery, and interiorscapes.

Diseases Controlled: Powdery Mildew, Botrytis, Anthracnose, Septoria Leaf Spot, Myrothecium, Rust, Scab, Blackspot, Phytophthora, Rhizoctonia Root Rot.

Packaging: 8 fluid ounces, 8 per case

Notes: Use in rotation with other fungicides for control of rhizoctonia and foliar diseases such as botrytis.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
66330-64-59807	12 hours	Strobilurin	11	Fluoxastrobin	1 to 4 fluid ounces	.3 ml to 1.2 ml 1/10 tsp to 1/2 tsp	Drench or foliar spray

FenStop is highly effective against downy mildew, pythium, phytophthora, and foliar phytophthora in greenhouses. **FenStop** is a good rotational tool in the battle against root and foliar diseases.

The product is highly translaminar as a spray and systemic when applied as a drench. The active ingredient in **FenStop** exhibits no known cross-resistance to most other fungicide chemistry.

Rates vary from 7 to 14 fl. oz. per 100 gal. of water and **FenStop** may be used once every 28 days. For downy mildew, pythium, or phytophthora control, **FenStop** may be rotated with Aliette, or other appropriate fungicides.

Labeled for use on: Ornamentals grown in the greenhouse.

Diseases Controlled: Downy Mildew, Foliar Phytophthora, Phytophthora, Pythium.

Packaging: 1 quart container, 6 per case

Notes: **FenStop** should be rotated with fungicides with different modes of action for control of downy mildew, pythium, and root foliar phytophthora.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-1389-59807	12 hours	Imidazolinones	11	Fenamidone	7 to 14 fluid ounces	4/10 tsp to 8/10 tsp	Drench or spray

OHP Chipco® 26019 N/G

Chipco 26019 N/G is a broad spectrum fungicide that may be applied safely to a wide range of ornamental flowering and foliage plants, either as a foliar spray, drench, or dip. **Chipco 26019 N/G** fungicide contains iprodione, 50% active ingredient per pound.

Labeled for use on: Ornamentals in greenhouses and nurseries, including conifer nurseries.

Diseases Controlled: Alternaria, Botrytis, Rhizoctonia, Fusarium Corm rot, Cylindrocladium and other diseases.

Packaging: 2 lbs. container, 6 per case

Notes: Do not use as a drench on impatiens and pothos. Do not use on Spathiphyllum.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-889-59807	12 hours	Dicarboxamide	2	Iprodione	1 to 2 pounds	1 1/3 tsp to 2 2/3 tsp	Drench or spray

OHP 6672™ 4.5 F

OHP 6672 4.5 F ornamental fungicide controls a broad range of ornamental diseases including, anthracnose, black spot, botrytis, leaf spot, powdery mildew and scab, to name a few.

OHP 6672 4.5 F is from the benzimidazole family of fungicides and appropriate resistant management practices should always be followed.

Labeled for use on: Ornamentals and turfgrass.

Diseases Controlled: Anthracnose, Black Spot, Blights, Botrytis, Fusarium, Leaf Spot, Powdery Mildews, Rhizoctonia and Scabs.

Packaging: 2.5 gallon container, 2 per case

Notes: Continuous agitation is required to keep the material in suspension.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
59807-5	12 hours	Benzimidazole	1	Thiophanate-methyl	10 to 20 fluid ounces	3/5 to 1 1/5 tsp	Foliar spray, drench, pre-plant dip treatment

OHP 6672™ 50 WP

OHP 6672 50 WP ornamental fungicide controls a broad range of ornamental diseases including anthracnose, black spot, botrytis, leaf spot, powdery mildew and scab.

OHP 6672 50 WP is from the benzimidazole family of fungicides and appropriate resistant management practices should always be followed.

Labeled for use on: Ornamentals and turfgrass.

Diseases Controlled: Anthracnose, Black Spot, Blights, Botrytis, Fusarium, Leaf Spot, Powdery Mildews, Rhizoctonia and Scabs.

Packaging: 2 lbs. bag (4 x 8 oz. WSP per bag), 6 per case

Notes: This product is not recommended for the following plants: Swedish Ivy, Boston Fern and Easter Cactus.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallon	Rate per 1 gallon	Application
59807-6	12 hours	Benzimidazole	1	Thiophanate-methyl	8 to 24 ounces	1 2/3 tsp to 5 tsp	Foliar spray, drench, bulb treatment

SoilGard® 12G

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. It may not, however, cure already infected plants. Where possible allow the treated soil or media to incubate for 1 day prior to planting to achieve the best results. Do not use other soil fungicides at the time of incorporation. Later addition of fungicides is acceptable but usually unnecessary.

Labeled for use on: Ornamentals and food crop plants grown indoors and outdoors, in greenhouses, nurseries, and interiorscapes.

Diseases Controlled: Pythium and Rhizoctonia (Damping off and Root Rot)

Packaging: 5 lbs. bags, 4 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-3	4 hours	Microbial (preventive)	NC	Gliocladium virens strain GL-21	.5 lbs. to 2 lbs.	1/2 tsp to 2 tsp	Drench or Soil Incorporation

Strike® 50 WDG

Strike is a systemic fungicide that controls or prevents many fungal diseases on ornamental plants in the greenhouse and nursery. Diseases controlled include flower blight, leaf blight/spot, powdery mildew, rusts and tip blights. **Strike** works from inside the plant to actively control diseases before symptoms occur and will provide residual control for 30 days or more.

Labeled for use on: Flowers, foliage plants, shrubs and shade trees in commercial nurseries, garden centers and greenhouses.

Diseases Controlled: Leaf Blight, Leaf Spot, Powdery Mildew, Rust and Sclerotinia and other diseases.

Packaging: 1/2 lbs. container, 12 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-1367-59807	12 hours	Triazole	3	Triadimefon	1 to 2 ounces	1/10 tsp to 1/5 tsp	Spray

Terraclor® 400 SC

Terraclor 400 SC is an effective soil fungicide for prevention and control of soil borne diseases caused by *Rhizoctonia solani* and other soil borne diseases. **Terraclor 400 SC** works primarily as a preventative agent through contact activity, and should be applied before disease symptoms appear in order to achieve optimum results.

Terraclor 400 SC applications at first sign of disease have curative properties as well.

Labeled for use on: Ornamentals and vegetable plants grown in greenhouses, shadehouses, nurseries, landscape plantings and interiorscapes.

Diseases Controlled: *Rhizoctonia* spp., Bulb Rot, Storage Rot, Flower blight, *Sclerotinia* spp., Dry Rot.

Packaging: 1 gallon container, 4 per case

Notes: Soil applied **Terraclor 400 SC** should be drenched or incorporated thoroughly into the soil for best results. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-454	12 hours	Aromatic Hydrocarbons	14	PCNB	6 to 12 fluid ounces	3/8 tsp to 3/4 tsp	Drench

Terraclor® 75% WP

Terraclor 75% WP is an effective soil fungicide for prevention and control of soil borne diseases caused by *Rhizoctonia solani* and other species of *Rhizoctonia*. **Terraclor 75% WP** works primarily as a preventative agent through contact activity, and should be applied before disease symptoms appear in order to achieve optimum results.

Terraclor 75% WP applications at first sign of disease has curative properties as well.

Labeled for use on: Ornamentals and vegetable plants grown in greenhouses, shadehouses, nurseries, landscape plantings, interiorscapes, and turfgrass.

Diseases Controlled: *Rhizoctonia solani* and *Rhizoctonia* spp.

Packaging: 5 lbs. bag, 8 per case

Notes: Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-399	12 hours	Aromatic Hydrocarbons	14	PCNB	2 to 8 ounces	1/5 tsp to 1 2/3 tsp	Drench

Terraguard® SC

An effective disease control program combining **Terraguard SC** fungicide with good cultural and sanitary practices is the key to marketing healthier, more vigorous ornamental plants. **Terraguard SC** controls Rhizoctonia root rot, one of the most common soilborne diseases, as well as other hard to control diseases such as Thielaviopsis, Cylindrocladium, powdery mildew, and leaf spots.

Terraguard SC is a locally systemic fungicide that provides protection of hard to control diseases. **Terraguard SC** can be used as a cutting soak, soil drench, foliar spray or through chemigation for control of diseases on ornamental plants grown in enclosed commercial structures such as greenhouses, shadehouses and interiorscapes. It prevents diseases from attacking leaf surfaces as it penetrates the plant (where applied) to stop disease development. The chemical action of **Terraguard SC** makes it the ideal fungicide for fighting foliar as well as soilborne diseases.

Labeled for use on: Ornamental crops grown in the greenhouse, interiorscapes and nursery including Christmas tree/conifer plantations.

Diseases Controlled: Rhizoctonia root rot, as well as other hard to control diseases such as Thielaviopsis, Cylindrocladium, powdery mildew, rust, and leaf spots.

Packaging: 1 quart container, 12 per case

Notes: Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-521	12 hours	Imidazole fungicides	3	Triflumizole	2 to 8 to 16 fluid ounces	1/8 tsp, 1/2 tsp, 1 tsp	Drench or spray

Terrazole® L

Terrazole L is an effective soil fungicide for prevention and control of damping-off, root rot and stem diseases caused by *Pythium* and *Phytophthora* species in ornamental, nursery crops and golf course tees and greens.

Labeled for use on: Ornamental, nursery crops and golf course tees and greens.

Diseases Controlled: *Pythium* spp, and *Phytophthora* spp.

Packaging: 1 quart container, 8 per case

Notes: For best results maintain tank agitation to ensure uniform application. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-422-59807	12 hours	Thiadiazole fungicide	14	Etridiazole	2.5 to 7 fluid ounces	1/8 tsp to 3/8 tsp	Drench or spray

Terrazole® 35% WP

Terrazole 35% WP is an effective soil fungicide for prevention and control of damping-off, root rot and stem diseases caused by *Pythium* and *Phytophthora* species in ornamental and nursery crops.

Labeled for use on: Ornamental, and nursery crops and golf course tees and greens.

Diseases Controlled: *Pythium* spp, and *Phytophthora* spp.

Packaging: 2 lbs. bag, 6 per case

Notes: For best results maintain tank agitation to ensure uniform application. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-416	12 hours	Thiadiazole fungicide	14	Etridiazole	3.5 to 10 ounces	1/2 tsp to 1 1/2 tsp	Drench or spray

Terrazole® CA

Terrazole CA is an effective soil fungicide for prevention and control of damping-off, root rot and stem diseases caused by *Pythium* and *Phytophthora* species in containerized ornamentals.

Labeled for use on: Containerized ornamental crops.

Diseases Controlled: *Pythium* spp. and *Phytophthora* spp.

Packaging: 2 lbs. bag, 6 per case

Notes: For best results maintain tank agitation to ensure uniform application. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-507	12 hours	Thiadiazole fungicide	14	Etridiazole	4 to 6 ounces	3/4 tsp to 1 tsp	Drench or spray

Triact® 70

Triact 70 (clarified hydrophobic extract of Neem oil) is a broad-spectrum Fungicide, Miticide and Insecticide (OMRI listed). See **Triact 70** in the **Insecticide Section** for rates and product information.

Veranda™ O

Veranda O is a member of the polyoxins class of fungicides. As a member of an unique chemical class Veranda O is an excellent rotational tool for control of important diseases such as Botrytis, Alternaria, Rhizoctonia and others.

Labeled for use on: Ornamentals and various crops including: cucurbit vegetables, fruiting vegetables, pome fruits, strawberries and non bearing vine fruit and fruit and nut trees.

Diseases Controlled: Alternaria, Botrytis, Colletotrichum, Fusarium, Rhizoctonia, Sclerotinia and others

Packaging: 1 lbs. container, 4 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
66330-56-59807	4 hours	Polyoxins	19	Polyoxin D	4 to 8 ounces	1/2 tsp to 1 tsp	Drench or spray

Insecticides/Miticides/Insect Growth Regulators

Adept®

Adept Insect Growth Regulator (IGR) is an effective tool for controlling fungus gnats, shore flies, and foliar feeding pests found in ornamental crops grown in greenhouses, shade houses, and interiorscapes.

Labeled for use on: Ornamental crops grown in the greenhouse, interiorscapes and shade houses.

Insects Controlled: Larvae of fungus gnats, shore flies, armyworms, leafminers and suppression of whiteflies.

Packaging: 1 lbs. (16 - 1 oz water soluble packets), 12 per case

Notes: Exceeding label rates, volumes or number of applications of **Adept** can cause serious foliar injury to crops, particularly to poinsettias, hibiscus, and Rieger begonia. Do not apply **Adept** to poinsettias, hibiscus, or Rieger begonia. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-477	12 hours	Benzoyl Urea IGR	15	Difflubenzuron	1 (drench) to 2 (spray) ounces	See label for more information	Spray or drench

Azatin® XL

Azatin XL is a highly effective biological insect growth regulator used to control a broad-spectrum of greenhouse and nursery insects. With a rate range of 5 to 16 fl. oz. per 100 gallons of water **Azatin XL** fits in well with all IPM programs and can be used on all crops in the greenhouse including vegetables and herbs. Insects do not survive the molting process to become reproductive adults. Death is visible from 3-10 days after application, but insects will stop feeding long before they die. To make **Azatin XL** even more effective tank mix with Decathlon (pyrethroid) for complete insect control.

Labeled for use on: Ornamental, vegetable and herb crops grown in the greenhouse, interiorscape and nursery.

Insects Controlled: Aphids, caterpillars, fungus gnats, leafminers, thrips, mealybugs, and whiteflies. (See label for complete list of insects controlled.)

Packaging: 1 quart container, 6 per case

Notes: For best results thorough spray coverage and a final spray solution pH of 3.0 to 7.0 is recommended.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-27-59807	4 hours	Biological Insecticide	U	Azadirachtin	5 to 16 fluid ounces	1/3 tsp to 1 tsp	Drench or spray

Decathlon® 20 WP

Decathlon 20 WP is effective for broad spectrum control of crawling and flying insect pests on ornamental and nursery stock. **Decathlon 20 WP** will not stain or cause damage to any painted or varnished household surface, plastic, fabric or other surface where water applied alone causes no damage.

Labeled for use on: Ornamentals, and nursery stock.

Insects Controlled: Aphids, armyworms, bagworms, beetles, caterpillars, cutworms, fungus gnats, gypsy moths, lace bugs, leaf hoppers, leaf rollers, mealybugs, mites, scales, thrips, webworms and whiteflies.

Packaging: 1/2 lbs. container, 12 per case

Notes: Addition of a spreader-sticker at recommended rates may enhance control of insects on certain species of ornamentals having hard-to-wet surfaces.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-1402-59807	12 hours	Pyrethroid	3	Cyfluthrin	1.3 to 1.9 ounces	1/5 tsp to 1/4 tsp	Spray

Discus® N/G

Discus N/G Insecticide is a versatile, broad-spectrum product that gives long-term control of many insects. **Discus N/G** is safe on virtually all plant material, offering control of a wide range of insects. **Discus N/G** as a foliar application provides greater than 30 day control. **Discus N/G** can be applied as a drench, band or foliar application.

Labeled for use on: Ornamentals, non bearing fruit and nut trees, in greenhouses, field and container nurseries, and interior plantscapes.

Insects Controlled: Aphids, leafhoppers, leafminers, mealybugs, scale, strawberry root weevil, whiteflies, white grub larvae, and many other insects.

Packaging: 1 gallon container, 4 per case

Notes: When spraying hard to wet foliage, the addition of a surfactant may enhance both knockdown and residual activity.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallons	Application
432-1393-59807	12 hours	Pyrethroid + Neonicotinoid	4a+3	Imidacloprid + Cyfluthrin	25 to 50 fluid ounces	1 1/2 tsp to 3 tsp	Spray, drench, band

Dimilin® SC

Dimilin SC Insect Growth Regulator (IGR) provides an effective means of controlling a variety of insect pests found in and around ornamental plants and in controlling larvae of sciarid flies in mushroom growing facilities.

Ornamentals: **Dimilin SC** can be used in repeat applications as a foliar spray in enclosed commercial structures only, such as greenhouses, shadehouses and interiorscapes. **Dimilin SC** is effective on foliar feeding insects like armyworms and lepidopterous leafminers. It also suppresses whiteflies when part of an IPM program.

Mushroom Production: For control of sciarid fly larvae, **Dimilin SC** is applied in the mushroom growing media where it will prevent the development of the larval stages of the sciarid fly.

Labeled for use on: Ornamental crops grown in greenhouses, interiorscapes and shadehouses. Control of sciarid fly larvae in mushroom growing media.

Insects Controlled: Larvae of armyworms, lepidopterous leafminers and larvae of sciarid flies.

Packaging: 1 quart container, 8 per case

Notes: Users should test plants before using on a large scale and observe for symptoms of phytotoxicity. Symptoms may take up to three months to appear for applications made to the soil. The user assumes all risks arising out of application to untested plants.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-483	12 hours	Benzoyl Urea IGR	15	Diflubenzuron	2 to 4 fluid ounces (foliar)	1/8 tsp to 1/4 tsp	Spray or drench

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.

Floramite SC produces quick knockdown through contact activity and long residual control of more than 21 days. **Floramite SC** is soft on predacious mites and beneficial insects, making it ideal for use in IPM and resistance management programs.

Labeled for use on: All ornamental plants, including bedding plants, flowering plants, foliage plants, bulb crops, perennials, trees and shrubs. All non-bearing fruit trees and greenhouse tomatoes, varieties greater than 1" in diameter when mature.

Mites Controlled: Variety of spider mites and all life stages of Tetranychid mites.

Packaging: 1 quart container, 8 per case

Notes: For best results adjust tank pH to neutral or acidic range as **Floramite SC** degrades rapidly in alkaline water. For optimal control of high populations, add a spray adjuvant such as Silwett 77® or Sylgard 309®. Users should test plant safety of adjuvants prior to commercial use.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-508-59807	12 hours	Carbazates	U	Bifenazate	4 to 8 fluid ounces	1/4 tsp to 1/2 tsp	Spray

Judo™

Judo is a miticide/insecticide in a new chemical class (tetrionic acids) with a new mode of action that is highly effective against a wide range of mites and whiteflies.

Judo affects all development stages of mites and whiteflies (including eggs and transformation stages). **Judo** is translaminar and moves readily through the leaf tissue. **Judo** provides extended residual control of mites (30+ days) and whiteflies (21+ days).

Judo is a suspension concentrate (SC) containing 4 pounds of spiromesifen per gallon.

Labeled for use on: Ornamentals grown in the greenhouse or nursery.

Mites/Insects Controlled: Mites and whiteflies.

Packaging: 8 fluid ounces, 6 per case

Notes: For best results, apply before a damaging population of whiteflies or mites is established. Do not use on geraniums, impatiens, English Ivy, and crotons. See **Judo** Technical Bulletin for more information.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-1280-59807	12 hours	Tetrionic acid	23	Spiromesifen	2 to 4 fluid ounces	1/8 tsp to 1/4 tsp	Foliar spray

Kontos™

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, meaning that the systemic activity moves upward and downward in treated plants.

Kontos is a suspension concentrate formulation containing 2 pounds of the active ingredient spirotetramat per gallon.

Labeled for use on: **Kontos** may be used on ornamental plants in greenhouses and nurseries, including non-bearing fruit and nut trees (i.e., trees that will not bear fruit or nuts for one year after application) and vegetable transplants.

Mites/Insects Controlled: Adelgids, aphids, leafhoppers, mealybugs, psyllids, spider mites, spittlebugs, whiteflies.

Packaging: 250 mL (8.45 fl. oz.) containers, 6 per case

Notes: There is no known cross resistance of **Kontos** with other pesticide mode of action groups, making it an excellent part of a resistance management program.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate (see label)	Application
432-1471-59807	24 hours	Tetramic acid derivative (ketoenole)	23	Spirotetramat	Subject to Application Method	See above

Marathon® 1% G

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.

Labeled for use on: Ornamentals, fruit and nut trees, and vegetable plants in greenhouses, nurseries and interior plantscapes.

Insects Controlled: Aphids, whiteflies, thrips, mealybugs, soft scale.

Packaging: 5 lbs. container, 4 per case and 50 lbs. drum

Notes: Watering, timing, and rotation are keys in making applications successful.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate (see label)	Application
432-1329-59807	12 hours	Neonicotinoid	4a	Imidacloprid	1/8 - 1 1/2 teaspoons per pot depending on size	Topical or incorporated into media

Marathon® 60 WP

Marathon 60 WP is a wettable powder in a water soluble packet that allows for a foliar spray, drench, or ebb and flood application for control of insect pests on ornamentals and vegetable plants for resale grown in the greenhouse or nursery.

Labeled for use on: Ornamentals and vegetable plants in greenhouses, nurseries, and interior plantscapes.

Insects Controlled: Aphids, whiteflies, thrips, mealybugs, soft scale.

Packaging: 1600 grams per master case, 20 gram packets, 5 packets per pouch

Notes: Watering, timing, and rotation are keys in making applications successful.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate (see label)	Application
432-1361-59807	12 hours	Neonicotinoid	4a	Imidacloprid	Subject to Application Method	See above

Marathon® II

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

Labeled for use on: Ornamentals, fruit and nut trees, and vegetable plants in greenhouses, nurseries and interior plantscapes.

Insects Controlled: Aphids, whiteflies, thrips, mealybugs, soft scale.

Packaging: 250 mL container, 12 per case

Notes: Watering, timing, and rotation are a key in making applications successful.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
432-1369-59807	12 hours	Neonicotinoid	4a	Imidacloprid	1.7 fluid ounces	1/10 tsp	Foliar spray, broadcast spray or drench

Naturalis® L

Naturalis L is a microbial bio-insecticide containing no less than 2.3 x 10⁷ viable spores per milliliter of the fungus *Beauveria bassiana* ATCCATCC 74040. **Naturalis L** is formulated from a fermentation process that allows the spores to withstand ultra-violet light, temperature, and humidity extremes commonly encountered in greenhouses and field conditions.

Infection usually occurs through the insect's skin. Fungal spores contact the target pest and secrete enzymes which attack and dissolve the cuticle. These spores then grow into the insect's body and use it as a nutrient source. Mortality results from a combination of desiccation and nutrient loss.

Naturalis L is a contact insect pathogen. Therefore, to suppress pest populations thoroughly, spray coverage is essential because fungal spores must contact the insect for infection to occur. Also, treatment should occur when pest populations are manageable and before extensive damage occurs to crops. Generally 3-5 applications are necessary before pests are adequately controlled. **Naturalis L** can be applied with both hydraulic and ultra-low volume equipment.

Labeled for use on: Control of insect pests in vegetables, greenhouses, outdoor ornamental plantings, and plantscapes.

Naturalis® L *continued on next page*

Insects Controlled: Immature and adult ants, aphids, bees, beetles, caterpillars, Japanese beetles, leafhoppers, moths, spider mites, thrips, true bugs, wasps, and whiteflies.

Packaging: 1 quart container, 6 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
53871-9	4 hours	Microbial bioinsecticide	Microbial	Beauveria bassiana	30 to 100 fluid ounces	.3 to 1 fluid ounces	Spray

Pedestal™

Pedestal Insect Growth Regulator (IGR) is effective in controlling a variety of insect pests on ornamental plants. As a result of its unique chemistry and specific mode of action, **Pedestal** provides the grower with an effective tool for Intergrated Pest Management (IPM) and resistant management programs.

Labeled for use on: Control of insect pests on container and field grown ornamentals in greenhouses, shadehouses, and nurseries.

Insects Controlled: Larval, nymph or immature stages of thrips, whiteflies, armyworms and suppression of leafminers.

Packaging: 1 quart container, 8 per case

Notes: Do not make more than 2 applications of **Pedestal** per crop per year. Do not apply to poinsettias. Do not apply this product through any type of irrigation system.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
66222-40-400	12 hours	Benzoyl Urea IGR	15	Novaluron	6 to 8 fluid ounces	3/8 tsp to 1/2 tsp	Spray

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.

Labeled for use on: Ornamentals including bedding plants, flowering plants, foliage plants, bulb crops, perennials, and trees and shrubs.

Mites/Insects Controlled: Mites such as: Broad mite, Cyclamen mite, Lewis mite, Two-spotted spider mite. Insects such as: Aphids, Thrips, Whiteflies and Leafminers. (Suppression only on aphids, thrips and whiteflies.)

Packaging: 8 fluid ounces, 8 per case

Notes: Apply in sufficient volume of water to ensure thorough coverage of the foliage. Begin application as soon as mites appear. One additional application can be made after 7 days.

For suppression of pest populations, young immature stages must be contacted by the spray. One additional application can be made after 7 days.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
400-572-59807	12 hours	Carbazates + Glycosides	Unknown + 6	Bifenazate + Abamectin	3 to 6 fluid ounces	3/16 tsp to 3/8 tsp	Foliar spray

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.

Insects Controlled: All life stages of Two Spotted spider mites, spruce spider mites, Citrus spider mite, European Red mite, Pacific Spider mite, Willamette Spider mite and more

Packaging: 1 pint container, 4 per case

Notes: **Shuttle O** should not be mixed with strongly alkaline or acidic compounds. Do not combine **Shuttle O** with Aliette WDG.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
66330-38-59807	12 hours	Naphthoquinone derivative	20B	Acequinocyl	6.4 to 12.8 fluid ounce	3/8 tsp to 1/2 tsp	Spray

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. As a fungicide,

Triact® 70 continued on next page

Triact 70 is a preventative as well as a curative. It coats fungal spores and then dehydrates them to stop the disease cycle. Use **Triact 70** when conditions favor disease development but before major symptoms occur. As a miticide and an insecticide, **Triact 70** acts as a suffocant. To ensure maximum control thorough coverage of **Triact 70** is key. Use **Triact 70** at rates of 0.5 to 2 percent at spray intervals of 7 to 10 days. **Triact 70** makes an excellent tool for all well developed IPM programs.

Labeled for use on: For indoor/outdoor use on ornamental flowering plants, trees, shrubs, foliage and vegetable plants grown in nurseries, greenhouses and commercial landscapes.

Insects, Mites, and Diseases Controlled: A broad spectrum insecticide, miticide and fungicide. OMRI listed. See label for more information.

Packaging: 2.5 gallon container, 2 per case

Notes: Water temperature should be above 45° F. **Triact 70** is compatible with most commonly used fungicides, insecticides, and fertilizers. Avoid tank mixes of oxythioquinox, captan, sulfur, chlorothalonil or other chemically similar products. Refer to the label or Product Information Bulletin for crop sensitivities.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-2-59807	4 hours	Oil	M	Clarified hydrophobic extract of neem oil	1/2 gallon , 1 gallon to 2 gallons	3 3/4 tsp to 7 1/2 tsp to 15 tsp (5 tablespoons)	Spray

Wetting, Penetrating and Re-Wetting Agents

Suffusion® Liquid

Suffusion is an effective blend of surfactants for use on all types of growing media in nurseries, greenhouses, interior plantscapes, and soil production.

Suffusion works by reducing surface tension of applied water, penetrating into dry and water repellent areas, and linking together water-repellent soil and water. Peat, bark or alternative compost substrates are typically candidates for **Suffusion**.

Labeled for use on: All types of growing media in nurseries, greenhouses, interior plantscapes and soil production.

Conditions Controlled: Resistance to wetting.

Packaging: 2.5 gallon, 2 per case, and 30 gallon drums

Notes: For injection ratio, please see Product Information Bulletin. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	Rate per 100 gallons	Rate per 1 gallon	Application
NA	0 hours	Alkoxyether Surfactants	2.0 to 15 fluid ounces	1/2 tsp to 1 tsp	Drench

Suffusion® Granular

Packaging: 50 lbs. pail

Notes: For more complete mixing information, please see Product Information Bulletin.

EPA Reg. No.	REI	Chemical Family	Rate	Application
NA	0 hours	Alkoxyether Surfactants	1/2 lb. to 2 lb. per cubic yard	Soil incorporation or top dressing

Suffusion® Tablet

Packaging: 6 tablets per inner case, 10 inner cases per master case

Notes: For injection ratio, please see Product Information Bulletin.

EPA Reg. No.	REI	Chemical Family	Application
NA	0 hours	Alkoxyether Surfactants	Hose End Application System

Herbicides

Casoron® 4G

A successful weed control program requires the use of herbicides known to be effective on troublesome weeds. **Casoron 4G** easily handles many troubling weeds in and around established woody landscape ornamentals, non-crop areas, fruit and nut trees and respective nurseries.

The active ingredient in **Casoron 4G** is dichlobenil. Dichlobenil acts by inhibiting germination, and actively dividing meristems of growing points and root tips; thereby, inhibiting cell division through cellulose synthesis. Optimal performance is obtained as a preventative application. **Casoron 4G** prevents weed seeds, emerging shoots and certain existing weeds from growing.

Casoron 4G develops a vapor barrier and is active for 9-10 months after application. It is absorbed primarily from the soil by the root system. **Casoron 4G** requires 1/2 to 1 inch of overhead watering to thoroughly incorporate granules to a depth of 4-6 inches in the soil. Application timing is critical, since dichlobenil volatilizes under warm conditions. Applications should be made only under cool weather conditions in late fall or very early spring. A fall application may be necessary to control many perennials, such as fescues, orchardgrass, quackgrass, docks, and dandelions. Do not treat newly planted trees until at least 4 weeks after planting.

Casoron 4G controls grasses and hard to control weeds such as Coltsfoot, Thistles (has post emergent activity), Horsetail, Nutsedge, and many other annual and perennial weeds.

Labeled for use on: Fruit and nut trees, woody ornamentals, shelterbelts (established and in nurseries). Non-crop areas such as: landscape around buildings and structures, fences, recreational areas, and under containerized nursery stock.

Labeled Plants: Established ornamental trees and shrubs, apple, blueberry, cherry, grape, pear, and filbert. See label for full plant listing.

Packaging: 25 lbs. bag

Notes: Do not apply over the top into containerized plants. Do not use in enclosed structures. Do not allow granules to stick to foliage or to accumulate around the base of trees or shrubs. Do not use on trees or shrubs that have been established for less than 6 months. See label for specific restrictions and precautions.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	lbs. per Acre	Application
400-168-59807	12 hours	Benzenitrile	20	Dichlobenil	100 to 150 lbs.	Granular

Plant Growth Regulators

Augeo™

Augeo is a plant growth regulator/enhancer for ornamentals. **Augeo** enhances the overall structure and appearance of plants by reducing apical dominance and promoting lateral branching, resulting in thicker, fuller and a more compact plant with an increased potential for blooms.

Augeo works by disrupting cell wall integrity, resulting in a pinching effect on the plant.

Labeled for use on: Sites include greenhouse, lath, shadehouse, nurseries (both field and container) and/or farms for deciduous, evergreen (broadleaf and needle) and conifer trees, including, but not limited to Christmas tree farms and conifer farms.

Labeled Plants: Ornamentals including; bedding plants, herbaceous plants, perennials, woody ornamentals and trees.

Packaging: 1/2 gallon container, 4 per case

Notes: Foliar Spray. Performs best if applied early in the crop cycle. Usually only one application required.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Parts per Million (PPM)	Measure per gallon	Application
2217-932-59807	4 hours	Cyclohexaketone	Unknown	Dikegulac-sodium	400 to 800 PPM	1 1/2 tsp to 3 tsp	Spray

B-Nine® WSG

B-Nine WSG reduces plant height in ornamental plants by reducing internode length. Other **B-Nine WSG** 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** and 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.

Labeled for use on: Ornamentals grown in commercial or research greenhouses, shadehouses, and nurseries.

Labeled Plants: Bedding plants/flowering plants, foliage, chrysanthemums, gardenias, hydrangeas, poinsettias, plugs and others. See label for full listing.

Packaging: 1 lbs. container, 12 per case and 5 lbs. container, 8 per case

Notes: Lower or higher rates of **B-Nine WSG** may be used depending on crop needs. Solutions prepared from **B-Nine WSG** should not be held for more than 24 hours. Apply during morning or evening hours for best leaf absorption. Do not tank mix **B-Nine WSG** with any copper-containing product and do not spray **B-Nine WSG** within 7 days either before or after copper-containing products, as burning of leaves may result. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Parts per Million (PPM)	Measure per gallon	Application
400-478-59807	24 hours	Hydrazide	1	Daminozide	1000 to 2500 to 7500 PPM	4/5 TBS to 2 TBS to 6 TBS	Spray to wet

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.

On certain crops a tank mix of B-Nine WSG and **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 height control in finishing bedding plants. Maximum effect in spray applications occurs when **Cycocel** enters the plant through leaves and stems.

Labeled for use on: Ornamentals grown in commercial or research greenhouses, shadehouses, and nurseries.

Labeled Plants: Bedding plants, flowering plants, foliage, chrysanthemums, gardenias, hydrangeas, poinsettias, plugs and others. See label for full listing.

Packaging: 1 quart container, 4 per case; 1 gallon container, 4 per case and 30 gallon drum

Notes: Avoid overhead irrigation or rainfall within 6 hours of application. Poinsettias: On natural-season crops in the North, **Cycocel** should not be used after October 15. In the South, **Cycocel** should not be used after November 1. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Parts per Million (PPM)	Measure per gallon	Application
241-74-59807	12 hours	Quaternary ammonium	1	Chlormequat chloride	200 to 1250 to 4000 PPM	.22 to 1.36 to 4.34 fluid ounces	Spray or drench

Paczol®

Paczol is a plant growth regulator for use on ornamental plants grown in containers in nurseries, greenhouses, shadehouses, and interiorscapes.

Labeled for use on: Ornamental plants grown in containers in nurseries, greenhouses, shadehouses, and interiorscapes.

Labeled Plants: Including but not limited to bedding plants, azaleas, flowering plants, plugs, foliage plants, poinsettias, hibiscus, chrysanthemums, poinsettias and woody plants.

Packaging: 1 gallon container, 4 per case

Notes: Caution: reuse of pots, trays, or other containers that previously were used for crops treated with **Paczol** may affect growth of new plantings in such containers. See label for more information. Always read and follow label directions when using this product.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Parts per Million (PPM)	Measure per gallon	Application
400-515-59807	12 hours	Triazole	1	Pacllobutrazol	1 to 30 Drench, 5 to 100 Spray	1 PPM = 1 mL/gl; 5PPM = 4.7 mL/gl; 30 PPM = 1 fl oz/gl	Spray, drench, soak, media spray

Hormodin®

Hormodin is a root inducing substance. **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 root growth, which reduces bench time and plant loss. **Hormodin** is easy to use, yielding steadfast performance and zero disease migration.

To apply **Hormodin**, moisten cuttings if not already moist. The basal ends of the cuttings should be slightly moistened before treatment (except geraniums). Pour a small amount of **Hormodin** into a bowl or pan. Stir basal ends in **Hormodin**. Remove excess powder by tapping on the rim of the container. Then, plant treated cuttings in satisfactory rooting medium. Simply stated, "Dip it - Tap it - Stick it". **Hormodin** works best when used on fresh cuttings.

Hormodin comes in three strengths: **Hormodin 1**, at 00.1% (IBA); **Hormodin 2**, at 00.3% (IBA); and **Hormodin 3**, at 00.8% (IBA).

Hormodin 1 is a general purpose powder designed for the home gardener or commercial grower who propagates plants such as roses, carnations, poinsettias, some shrubs and most home garden and greenhouse plants.

Hormodin 2 is prepared specially for propagating many woody and semi-woody plants, including some of the evergreens.

Hormodin 3 is prepared specially for propagating the more difficult to root varieties, including many of the evergreens and dormant leafless cuttings.

Labeled for use on: Ornamentals grown in commercial or research greenhouses, shadehouses, and nurseries.

Labeled Plants: Ornamentals. See label for full listing.

Packaging: **Hormodin 1** and **Hormodin 2** are packaged in 1-pound containers (12 x 1 lbs. per case). **Hormodin 3** is packaged in 8 oz. containers (12 x 8 oz. per case). All formulations are packaged in 10 KG and 10 lbs. pails.

Notes: Cuttings that respond satisfactorily to **Hormodin 1** may be injured by **Hormodin 3** and in some cases by **Hormodin 2**. See the plant listings on the product labels to select the correct **Hormodin** formulation.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Application
Respectively 1: 59807-4 2: 59807-2 3: 59807-3	0 hours	Rooting hormones, synthetic auxin	6	Indole-3-butyric acid	Dip it (in appropriate Hormodin substance, designated as per plant listing on label) Tap it (on container rim) Stick it (in soil medium)

Users should read entire label for full information and application instructions.

TBS = Tablespoon tsp = teaspoon 1 mL = 1 cc 1 fl oz = 30 mL (29.6 mL exactly)

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OHP pH Chart

GREENHOUSE & NURSERY PRODUCTS

OHP product	Suggested spray tank pH range	Suggested Adjuvant
Adept®	5 - 7	
Aliette®	6	
Augeo™	6.5 - 7	No adjuvant recommended
Azatin® XL	3 - 6.5	
B-Nine® WSG	5 - 8	
Chipco® 26019 N/G	4.5 - 8	
Compass® O	3 - 7	Do not use with organosilicone surfactants
Cycocel®	3 - 7	
Decathlon® 20WP	3 - 7	
Dimilin® 25W	5 - 7	
Disarm® 0	5.5 - 7	
Discus® N/G	3 - 7	Suggested, not specified
Floramite® SC	6 - 7	
Judo™	3 - 7	Suggested, not specified
Kontos™	4 - 7	
Marathon® II	3 - 8	Suggested, not specified
OHP 6672™	6 - 7	
Paczol®	5 - 9	Adjuvant not recommended
Pedestal™	4 - 7	
Shuttle™ O	4 - 7	
Sirocco™ O	5 - 7	
Strike® 50 WDG	3 - 7	
Terraclor®	5 - 9	
Terraguard® SC	6 - 8	
Terrazole® 35WP	5 - 9	
Triact® 70	3 - 7	
Veranda™ O	7	

SEE PESTICIDE LABELING FOR ADJUVANT RECOMMENDATIONS AND RESTRICTIONS

Data supplied by Manufacturers, EPA, USDA, University of CA Cooperative Extension
Water above pH of 7, suggest using a buffering agent of choice to lower the pH.

OHP QUICK REFERENCE Product Rate Guide

Products	Rate per 100 gallons	Rate per 1 gallon
Fungicides		
Aliette® WDG	1.25, 2.5, 5.0 pounds	1 1/4 tsp, 2 1/2 tsp, 5 tsp
Compass® 0	1 to 4 ounces	1/10 tsp to 1/3 tsp
Disarm® 0	1 to 4 fluid ounces	1/10 tsp to 1/2 tsp
FenStop™	7 to 14 fluid ounces	4/10 tsp to 8/10 tsp
OHP Chipco® 26019 N/G	1 to 2 pounds	1 1/3 tsp to 2 2/3 tsp
OHP 6672™ 4.5 F	10 to 20 fluid ounces	3/5 to 1 1/5 tsp
OHP 6672™ 50 WP	8 to 24 ounces	1 2/3 tsp to 5 tsp
SoilGard® 12G	.5 to 2 pounds	1/2 tsp to 2 tsp
Strike® 50 WDG	1 to 2 ounces	1/10 tsp to 1/5 tsp
Terraclor® 400 SC (Drench Rates)	6 to 12 fluid ounces	3/8 tsp to 3/4 tsp
Terraclor® 75% WP (Drench Rates)	2 to 8 ounces	1/5 tsp to 1 2/3 tsp
Terraguard® SC	2 to 8 to 16 fluid ounces	1/8 tsp, 1/2 tsp, 1 tsp
Terrazole® 35% WP	3.5 to 10 ounces	1/2 tsp to 1 1/2 tsp
Terrazole® L	2.5 to 7 fluid ounces	1/8 tsp to 3/8 tsp
Terrazole® CA	4 to 6 ounces	3/4 tsp to 1 tsp
Triact® 70	1/2 gallon, 1 gallon, 2 gallons	3 3/4 tsp to 7 1/2 tsp to 15 tsp (5 tablespoons)
Veranda™ 0	4 to 8 ounces	1/2 tsp to 1 tsp

Insecticides / IGRs/ Miticides		
Adept®	1 to 2 ounces (spray)	See label for more information
Azafin® XL	5 to 16 fluid ounces	1/3 tsp to 1 tsp
Decathlon® 20 WP	1.3 to 1.9 ounces	1/5 tsp to 1/4 tsp
Discus® N/G	25 to 50 fluid ounces	1 1/2 tsp to 3 tsp
Floramite® SC	4 to 8 fluid ounces	1/4 tsp to 1/2 tsp
Judo™	2 to 4 fluid ounces	1/8 tsp to 1/4 tsp
Kontos™	1.7 to 3.4 fluid ounces (50 to 100 mL)	1/10 tsp to 1/5 tsp
Marathon® 1% G	see label	1/8 to 1 1/2 teaspoons per pot depending on size
Marathon® II	1.7 fluid ounces	1/10 tsp
Marathon® 60 WP	1 WSP treats 1000 6" pots	See label for more information
Naturalis® L	30 to 100 fluid ounces	.3 to 1 fluid ounce
Pedestal™	6 to 8 fluid ounces	3/8 tsp to 1/2 tsp
Shuttle™ 0	6.4 to 12.8 fluid ounces	2/5 tsp to 4/5 tsp
Sirocco™	3 to 6 fluid ounces	3/16 tsp to 3/8 tsp
Triact® 70	1/2 gallon, 1 gallon, 2 gallons	3 3/4 tsp to 7 1/2 tsp to 15 tsp (5 tablespoons)

Herbicides		
Casoron® 4G	100 to 150 pounds per Acre	

Plant Growth Regulators*	Parts per Million (PPM)	Rate per 1 gallon
Augeo™	400 to 800 PPM	1 1/2 tsp to 3 tsp
B-Nine® WSG - Spray	1000 to 2500 to 7500 PPM	4/5 TBS to 2 TBS to 6 TBS
Cycocel® - Spray	200 to 1250 to 4000 PPM	.22 to 1.36 to 4.34 fluid ounces
Hormodin®	— See label for more information. —	
Paczol® - Spray or Drench	1 to 30 Drench, 5 to 100 Spray	1 PPM=1 mL/gl; 5 PPM=4.7 mL/gl; 30 PPM=1 fl oz/gl

* Users should read entire label for full information and application instructions.
 TBS=Tablespoon tsp=teaspoon 1 mL=1 cc 1 fl oz=30 mL (29.6 mL exactly)

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