

OHP PRODUCT GUIDE



GREENHOUSE & NURSERY PRODUCTION

June 2024

Volume XVIII

Insecticides/Miticides
Fungicides
Amendments
Herbicides
Plant Growth Regulators



An American Vanguard Company

Fungicides

Areca®

Areca 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. **Areca** 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 **Areca** 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 |
|-----------------|----------|--------------------|------|-------------------|----------------------|-------------------------|-----------------|
| 53883-320-59807 | 12 hours | Ethyl Phosphonates | P 07 | Fosetyl-Al | 1.25, 2.5, 5 pounds | 1 ¼ tsp, 2 ½ tsp, 5 tsp | Spray or Drench |

Astun®

Astun Ornamental Fungicide provides preventative, and early curative activity on botrytis diseases of plants grown in commercial greenhouses and nurseries. **Astun** is most effective when used as a protectant fungicide and applied before the disease damages the crop. As a stand-alone SDHI (MOA 7) fungicide, it offers growers flexibility in tank mixing depending on the target disease complex. **Astun** is formulated in a user-friendly Suspension Concentrate (SC) formulation.

Labeled for use on: Ornamental plants grown in greenhouses or nurseries.

Diseases Controlled: *Botrytis cinerea* (Gray Mold) Cercospora leaf spot, Sclerotinia, Alternaria (suppression), Rhizoctonia root and crown rot (suppression), Fusarium root and crown rot (suppression)

Packaging: 1 quart (32 fl. oz.) container, 4 per case

Notes: Use during propagation, during production and before harvest of cut flowers.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|----------------|----------|------------------|-----|-------------------|---|-------------------|-------------|
| 71512-23-59807 | 12 hours | Thiophene amides | 7 | Isofetamid | 10 to 17 fluid ounces (296 mL to 503 mL) | 3 mL to 5 mL | Spray |

Grotto®

Grotto fungicide/bactericide is an effective broad-spectrum agent for prevention and control of diseases in a variety of plants and crops. **Grotto** is OMRI-listed and approved for organic production.

Labeled for use on: Greenhouse and shadehouse vegetables and herbs, ornamentals, and turf.

Diseases Controlled: Anthracnose, Bacterial Blights (*Pseudomonas*, *Erwinia*), Botrytis, Cercospora Leaf Spot, Downy Mildew, Powdery Mildew, Phomopsis, Volutella Leaf Blight and more.

Packaging: 1 gallon container, 4 per case

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|---------------|---------|-----------------|------|-------------------|----------------------|-------------------|--------------|
| 67702-2-59807 | 4 hours | Inorganic | M 01 | Copper octanoate | 0.5 to 2 gallons | 3¾ tsp to 15 tsp | Foliar spray |

Kalmor®

Kalmor fungicide/bactericide is an effective broad spectrum agent for prevention and control of diseases in a variety of plants and crops. **Kalmor** is OMRI-listed and approved for organic production.

Labeled for use on: Ornamentals and greenhouse vegetables.

Diseases Controlled: Anthracnose, Bacterial Blights (*Pseudomonas*, *Erwinia*), Botrytis, Cercospora Leaf Spot, Downy Mildew, Powdery Mildew, Phomopsis, Volutella Leaf Blight and more.

Packaging: 2.5 lbs, 4 per case

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per acre | Rate per 1,000 sq ft | Application |
|----------------|---|-----------------|------|-------------------|---------------|----------------------|--------------|
| 91411-11-59807 | Greenhouse 24 hours Nursery 48 hours | Inorganic | M 01 | Copper Hydroxide | 0.5 to 2 lbs. | ½ TBS to 1½ TBS | Foliar spray |

OHP Chipco® 26019

Chipco 26019 is a broad spectrum fungicide that may be applied safely to a wide range of ornamental flowering and foliage plants as a foliar spray, drench, or dip. **Chipco 26019** 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 |
|--------------|----------|-----------------|-----|-------------------|----------------------|--------------------|-----------------|
| 59807-16 | 12 hours | Dicarboximides | 2 | Iprodione | 1 to 2 pounds | 1 ½ tsp to 2 ¾ tsp | Drench or spray |

OHP 6672® 4.5 F

OHP 6672 4.5 F ornamental fungicide controls a broad range of ornamental diseases.

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 | Thiophanates | 1 | Thiophanate-methyl | 10.75 to 20 fluid ounces | ¾ tsp to 1 ½ 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.

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 grown in the greenhouse and nursery, vegetable transplants 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 gallons | Rate per 1 gallon | Application |
|--------------|----------|-----------------|-----|--------------------|----------------------|-------------------|--------------------------------------|
| 59807-6 | 12 hours | Thiophanates | 1 | Thiophanate-methyl | 8 to 16 ounces | N/A | Foliar spray, drench, bulb treatment |

Segway® O

Segway O fungicide is a flowable suspension concentrate for control of certain diseases on ornamental plants and pythium, phytophthora, and downy mildew diseases on ornamental plants and certain herbs and vegetables grown in commercial greenhouses and nurseries. **Segway O** should be utilized as a protectant fungicide and applied before the disease damages the crop. Depending on disease risk and severity, users may expect protection for a period of 7 to 28 days after treatment.

Labeled for use on: Ornamental plants and certain herbs and vegetables grown in commercial greenhouses and nurseries; container and field grown plants

Diseases Controlled: Pythium crown and root rots and damping-off; phytophthora crown and root rots and foliar blights; downy mildews

Packaging: 1 pint (16 fl. oz.) container, 8 per case and 0.5 gallon (64 fl. oz.), 4 per case

Notes: Do not make more than two applications of **Segway O** per crop cycle for control of pythium or phytophthora soil borne diseases. Do not make more than four applications of **Segway O** per crop cycle for control of downy mildews or phytophthora foliar diseases.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|----------------|----------|-----------------|-----|-------------------|-----------------------|--|-----------------|
| 71512-38-59807 | 12 hours | Cyano-imidazole | 21 | Cyazofamid | 1.5 to 6 fluid ounces | $\frac{1}{8}$ to $\frac{1}{2}$ tsp (0.44 mL to 1.77 mL) | Drench or spray |

Seido™

Seido ornamental fungicide provides preventative and early-curative control of powdery mildew on greenhouse vegetables and ornamentals and bedding plants grown in commercial greenhouses and nurseries. **Seido** is most effective when used as a preventative fungicide before disease damages the crop. As the only member of MOA Group 50, **Seido** is an excellent resistance management tool. **Seido** offers translaminar movement and redistribution on the leaf surface by vapor activity, which aids in coverage. **Seido** may be tank mixed with other fungicides for more broad-spectrum activity.

Labeled for use on: Ornamentals and bedding plants grown in commercial greenhouses and nurseries.

Diseases Controlled: Powdery mildew

Packaging: 1 quart (32 fl. oz.), 4 to a case

Notes: Performance is enhanced with the addition of an adjuvant and/or surfactant.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|----------------|---------|-----------------|-----|-------------------|----------------------|--------------------|-------------|
| 71512-43-59807 | 4 hours | Benzoylpyridine | 50 | Pyriofenone | 4 to 5 fl. oz. | 1.18 mL to 1.48 mL | Spray |

Terraclor® 400

Terraclor 400 is an effective soil fungicide for prevention and control of soil borne diseases caused by *Rhizoctonia solani* and other soil borne diseases. **Terraclor 400** 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** applications at first sign of disease have curative properties as well.

Labeled for use on: Ornamentals and vegetable bedding plants grown in greenhouses, shadehouses, nurseries, and non-residential landscape plantings.

Diseases Controlled: *Rhizoctonia* spp., Bulb Rot, Crown Rot, Needle blight, *Sclerotinia* spp., Phyllosticta.

Packaging: 1 gallon container, 4 per case

Notes: Soil applied **Terraclor 400** 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 |
|--------------|----------|-----------------------|-----|-------------------|----------------------|--|-------------|
| 5481-8992 | 12 hours | Aromatic Hydrocarbons | 14 | PCNB | 6 to 12 fluid ounces | $\frac{3}{8}$ tsp to $\frac{3}{4}$ tsp | Drench |

Terraguard® SC

Terraguard SC controls powdery mildew, along with rhizoctonia root rot, one of the most common soilborne diseases, as well as other hard-to-control diseases such as thielaviopsis, fusarium, rust, scab, botrytis, and cylindrocladium.

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, non-bearing fruit (trees/shrubs) and greenhouse grown vegetables (tomato and cucumber). For use in the following sites: greenhouse and shadehouses, nurseries including Christmas tree/conifer plantations, interiorscapes.

Diseases Controlled: Rhizoctonia root rot, as well as other hard to control diseases such as thielaviopsis, cylindrocladium, botrytis blight, powdery mildew, rust, and leaf spots.

Packaging: 1 quart container, 12 per case

Notes: Do not use on impatiens plugs. 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 |
|-----------------|----------|-----------------|-----|-------------------|---------------------------|---------------------|-----------------|
| 70506-583-59807 | 12 hours | Imidazoles | 3 | Triflumizole | 2 to 8 to 16 fluid ounces | ¼ tsp, ½ 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: Ornamentals, 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 overhead irrigate or drench with water to remove leaf residue and improve drench effectiveness. 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 |
|-----------------|----------|-----------------|-----|-------------------|-----------------------|-------------------|-----------------|
| 70506-571-59807 | 12 hours | Thiadiazoles | 14 | Etridiazole | 2.5 to 7 fluid ounces | ⅛ tsp to ¾ 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: Ornamentals, 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 |
|-----------------|----------|-----------------|-----|-------------------|----------------------|-------------------|-----------------|
| 70506-569-59807 | 12 hours | Thiadiazoles | 14 | Etridiazole | 3.5 to 10 ounces | ½ tsp to 1 ½ tsp | Drench or spray |

Triact® 70

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

Triathlon® BA

Triathlon BA is a broad-spectrum preventative biofungicide for control of a wide variety of fungal and bacterial diseases on ornamentals, fruits, vegetables, herbs and spices grown in greenhouses, nurseries, shadehouses, and turfgrass. **Triathlon BA** is OMRI-listed and approved for organic production.

Labeled for use on: Ornamentals, vegetables (fruiting and leafy), legumes, cucurbits, corms, fruits, tree nuts, herbs, spices, and turfgrass.

Diseases Controlled: botrytis, powdery mildew, downy mildew, rusts, leaf spots, scab, alternaria, pythium, phytophthora, rhizoctonia, fusarium, and bacterial spot.

Packaging: 1 gallon containers, 4 to a case

Notes: **Triathlon BA** contains a minimum of 1×10^{10} colony-forming units (cfu) of active ingredient per milliliter.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|-----------------|---------|--|-------|-----------------------------------|---|---------------------------------------|-----------------|
| 70051-107-59807 | 4 hours | <i>Bacillus</i> sp. and the fungicidal lipopeptides produced | BM 02 | <i>Bacillus amyloliquefaciens</i> | foliar: 0.5 to 6 quarts drench: 0.5 to 4.5 pints | 1 tsp to 11½ tsp (4.8 mL to 57 mL) | spray or drench |

Insecticides / IGRs / Miticides

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 greenhouses, 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 | Diflubenzuron | 1 (drench) to 2 (spray) ounces | See label for more information | Spray or drench |

Ancora®

Ancora Microbial Insecticide is an OMRI-listed naturally-occurring fungus that infects both foliage and soil dwelling insects.

Labeled for use on: Vegetables, fruits, ornamental plants grown in greenhouses or other covered structures or in nurseries.

Insects Controlled: Aphids, thrips including pupae, spider mites, whiteflies, mealybugs, leafminers, psyllids, caterpillars

Packaging: 1 pound bag, 10 per case

Storage Notes: Store **Ancora** in its original unopened package. **Ancora** is very stable in the unopened package for one year at 40° to 50° F. With an opened package, squeeze out the excess air and keep refrigerated (40° to 50° F). Use any remaining product within 30 days of opening.

Note: **Ancora** is most effective when the relative humidity is 80% or higher. The application itself, especially at high water volumes, will temporarily raise the relative humidity to support high effectiveness.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|----------------|--------|------------------------------|-----|---|----------------------|-------------------|-------------------|
| 70051-19-59807 | 4 hour | Biopesticides: Fungal Agents | UNF | <i>Isaria fumosorosea</i> Apopka Strain 97 | 14 to 28 ounces | 4 to 8 grams | Foliar and Drench |

Azatin® O

Azatin O is a biological insect growth regulator (IGR) used to control the larval stage of a broad-spectrum of greenhouse and nursery pests. **Azatin O** is OMRI-listed, soft on beneficials, and carries a 4-hour REI. **Azatin O** contains 175 grams of the active ingredient azadirachtin per gallon.

Azatin O may be used for insect control on all crops such as ornamentals, vegetables, herbs, and berries, grown in the greenhouse, nursery, interiorscape, and in hydroponic growing situations. **Azatin O** may be used for control of insects on turfgrass. Insects do not survive the molting process to become reproductive adults. Death results in 3-10 days after application but insects will stop feeding long before they die. **Azatin O** is often tank-mixed with Decathlon for control of larval and adult insect stages.

Labeled for use on: Ornamentals, vegetables, herbs, and berries grown in the greenhouse, nursery, and interiorscape.

Insects Controlled: Aphids, thrips, whiteflies, scale, chafers, fungus gnats, leafhoppers, psyllids, grubs, borers, stink bugs, grasshoppers, Japanese beetles, and many Lepidoptera species (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 of 3.0 to 7.0 pH is recommended.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|---------------|---------|-----------------|-----|-------------------|----------------------|-----------------------------------|-----------------|
| 70051-9-59807 | 4 hours | Biopesticide | UN | Azadirachtin | 4 to 16 fluid ounces | ¼ tsp to 1 tsp (1.2 mL to 4.8 mL) | Drench or spray |

BotaniGard® ES

Botanigard® Emulsifiable Suspension (ES) Mycoinsecticide provides contact activity on a wide range of insect and mite pests on food crops -- including food, forestry, and orchard crops -- and on non-food crops.

Labelled for use on: food and nonfood crops grown in greenhouses, shadehouses, nurseries, landscapes, interiorscapes, and on turf.

Insects/pests controlled: aphids, thrips, psyllids, spider mites, weevils, mealybugs in nurseries, greenhouses, shadehouses, mushroom houses, landscapes, interiorscapes, and on turf. Aphids, thrips, psyllids, mealybugs, leafhoppers, weevils, plant bugs, borers and leaf-feeding insects on food, forestry, and orchard crops (see label). Grasshoppers, Mormon crickets, locusts, and beetles on rangeland, improved pastures, and listed food crops (see label).

Packaging: – 1 qt., 10 per case; 1 gal., 4 per case

Notes: **Botanigard ES** is most effective when used early at the first appearance of pests. Typically, it takes 3-7 days after the first spray to see control. Use in rotation with products with different modes of action to lessen possibility of resistance development.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|--------------|---------|-----------------|-----|--------------------------------|----------------------|-------------------|-------------------------------|
| 82074-1 | 4 hours | Mycoinsecticide | UNF | Beauveria bassiana strain GHA1 | 1/2 to 1 qt. | 1 tsp to 4 tsp. | foliar spray, drench, and dip |

BotaniGard® WP

Botanigard® 22WP is a microbial insecticide (mycoinsecticide) that offers activity on contact on a wide range of insect and mite pests as a foliar spray, drench, or dip. Botanigard 22WP may be applied up to the day of harvest (0-hour PHI).

Labelled for use on: food crops and ornamentals grown in greenhouses, shadehouses, nurseries, landscapes, interiorscapes and on turf

Insects controlled: Aphids, root aphids, armyworms, stem borers, caterpillars (moths), flea beetles, leaf miners, leafhoppers, loopers, mealybugs, psyllids, stink bugs, thrips, whiteflies

Packaging: 1 lbs. package, 12 per case

Notes: **Botanigard 22WP** should be used as a preventative at the first sign of pest activity and may be used multiple times in a crop. Typically, it takes 3-7 days after the first spray to see control. Use in rotation with products with different modes of action to lessen possibility of resistance development.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|--------------|---------|-----------------|-----|-------------------------------|----------------------|-------------------|-------------------------------|
| 82074-2 | 4 hours | Mycoinsecticide | UNF | Beauveria Bassiana strain GHA | ½ to 2 lbs. | 1.5 to 6 tsp. | foliar spray, drench, and dip |

BotaniGard® MAXX

Botanigard® MAXX is a combination insecticide that provides knockdown of adults on contact and controls a wide range of insect and mite pests as a foliar spray or aerial application. Typically it takes 1-5 days after the first spray to see control.

Labelled for use on: ornamentals and vegetables in greenhouses, nurseries, shadehouses, landscape, interiorscape, and on turf.

Insects/pests controlled: Aphids, thrips, psyllids, spider mites, mealybugs, leafhoppers, weevils, plant bugs, borers, and leaf-feeding insects.

Packaging: – 1 gal., 4 per case; 2.5 gal., 2 per case

Notes: Botanigard MAXX is most effective when used early before high populations develop. Application rates, frequency, spray coverage, and insect numbers impact the speed at which acceptable control is achieved.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|--------------|----------|-----------------|-----|---|----------------------|--------------------|-------------------------------|
| 82074-5 | 12 hours | Mycoinsecticide | 3 | Beauveria bassiana strain GHA, pyrethrins | ½ to 2 qts. | .16 to .64 fl. oz. | foliar spray, drench, and dip |

Dimilin® 25W

Dimilin 25W Insect Growth Regulator (IGR) offers control of a variety of insect pests found on trees and shrubs grown in public and private forests, forest plantings and forest nurseries, and Christmas tree and conifer nurseries. **Dimilin 25W** can be used in repeat applications at weekly intervals. Do not use more than two (2) **Dimilin 25W** applications per season.

Mushroom Production: **Dimilin 25W** will control larvae of sciarid flies in mushroom growing facilities.

Spongy moth: For use in Quarantine programs conducted by State cooperators as well as USDA personnel of both Plant Protection and Quarantine, APHIS, and the U.S. Forest Service. Make two applications of 1-2 oz. per acre at 7-14 day intervals.

Bagworms: Apply to early instars in mid to late June.

Labeled for use on: Trees, shrubs, ornamentals, mushrooms, peppers, and non-crop areas.

Insects Controlled: Armyworms, bagworms, browntail moth, budworms, cankerworms, spongy moths, hemlock loopers, lepidopterous leafminers, pine shoot moth, pine tip moths, sawflies, tent caterpillars, tussock moths, webworms, weevils, and Zimmerman moth.

Packaging: 5 lbs. bag, 8 per case

Notes: **Dimilin 25W** is a restricted use pesticide and should be used only by certified applicators or persons under their direct supervision.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|-----------------|----------|------------------|-----|-------------------|----------------------|-------------------|-----------------|
| 70506-526-59807 | 12 hours | Benzoyl Urea IGR | 15 | Diflubenzuron | 2 to 8 ounces | N/A | 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, apply **Floramite SC** with a spray adjuvant. 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 |
|-----------------|----------|-----------------|-----|-------------------|----------------------|---------------------------------------|-------------|
| 70506-508-59807 | 12 hours | Carbazates | 20D | Bifenazate | 4 to 8 fluid ounces | ¼ tsp to ½ tsp (1.25 mL to 2.5 mL) | Spray |

Floramite® SC/LS

Floramite SC/LS Ornamental Miticide provides outstanding control of a variety of mite pests on ornamental plants growing in the landscape. **Floramite SC/LS** is effective on a broad range of mites and all life stages of Tetranychid spider mites.

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

Labeled for use on: Plants growing in the landscape, including bedding plants, flowering plants, foliage plants, bulb crops, trees and shrubs. Additional use sites include plants growing in public, commercial, industrial and institutional areas, and in recreational sites, including campgrounds, golf courses, parks, and athletic fields.

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

Packaging: 8 fl. oz. containers, 8 per case

Notes: For best results adjust tank pH to neutral or acidic range as **Floramite SC/LS** degrades rapidly in alkaline water. For optimal control of high populations, apply **Floramite SC/LS** with a spray adjuvant. 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 |
|--------------|-----|-----------------|-----|-------------------|----------------------|---------------------------------------|-------------|
| 400-509 | N/A | Carbazates | 20D | Bifenazate | 4 to 8 fluid ounces | ¼ tsp to ½ tsp (1.25 mL to 2.5 mL) | Spray |

Fulcrum®

Fulcrum Insect Growth Regulator is highly effective against a broad-spectrum of greenhouse and nursery insects. **Fulcrum** controls nymphs/larvae and pupae and negatively affects development of viable eggs. **Fulcrum** should be used as one component of a rotational strategy with products from different chemical classes with different modes of action.

Fulcrum is a 11.23% formulation of pyriproxyfen and contains 0.86 lbs. of active ingredient per gallon.

Labeled for use on: Shrubs, ornamentals, flowering plants, foliage plants, ground covers, ornamental trees, and non-bearing fruit, nut trees and vines.

Insects Controlled: Eggs, nymphs/larvae and pupae of aphids, fungus gnats, leafminers, mealybugs, scales, shore flies and whiteflies.

Packaging: 1 quart (32 fl. oz.) container, 4 per case

Notes: Foliar sprays are effective through conventional and low volume sprayers. Make only one drench application per crop. Do not apply to poinsettia after bract formation.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|--------------|----------|-----------------------------------|-----|-------------------|----------------------|--------------------------------------|-----------------|
| 59807-14 | 12 hours | Pyridine insect growth regulators | 7C | Pyriproxyfen | 2 to 12 fluid ounces | ⅛ tsp to ¾ tsp (0.6 mL to 3.6 mL) | Spray or drench |

Kopa™ Insecticidal Soap

Kopa Insecticidal Soap is a potassium salt of fatty acid soap that controls insects, mites and powdery mildew. **Kopa** is OMRI-listed and can be used for organic production.

Labeled for use on: Ornamental and shade trees including flower and foliage plants in greenhouse and outdoors. Pome, stone fruits, small fruits and vegetables both in field and outdoor production, herbs and spices, hops, coffee and others. See full label for specific directions.

Pests Controlled: Aphids, spider mites, mealybugs, scale insects, whiteflies, leafhoppers, tent caterpillars, plant bugs, earwigs, powdery mildew

Packaging: 2.5 gallon container, 2 per case

Notes: **Kopa** may be tank mixed with appropriate partners for additional activity.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per gallon | Application |
|----------------|----------|----------------------|-----|--------------------------------|----------------------|--|--------------|
| 67702-11-59807 | 12 hours | Biopesticide - Soaps | UNM | Potassium salts of fatty acids | 1 to 2 gallons | 1.28 to 2.56 fl. oz. 39 mL to 76 mL | Foliar spray |

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 6 to 8 weeks of residual control on ornamentals plants for resale grown in the greenhouse or nursery.

Labeled for use on: Ornamentals, non-bearing fruit and nut trees, and vegetable transplants in greenhouses, nurseries and interior landscapes.

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 to making a successful application.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate (see label) | Application |
|--------------|----------|-----------------|-----|-------------------|---|------------------------------------|
| 59807-15 | 12 hours | Neonicotinoid | 4A | Imidacloprid | ⅓ - 1 ½ teaspoons per pot depending on size | Topical or incorporated into media |

Marathon® II

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

Labeled for use on: Ornamentals, non-bearing fruit and nut trees, and vegetable transplants in greenhouses and nurseries.

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

Packaging: 250 mL container, 12 per case

Notes: Watering, timing, and rotation are keys to making a successful application.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|-----------------|----------|-----------------|-----|-------------------|----------------------|-------------------|---|
| 53883-232-59807 | 12 hours | Neonicotinoid | 4A | Imidacloprid | 1.7 fluid ounces | ⅓ tsp (0.5 mL) | Foliar spray, broadcast spray or drench |

Notavo®

Notavo Ovicide/Miticide is highly effective at controlling eggs and early instar mite stages. As a selective ovicide it is a critical part of any spider mite control program.

Labeled for use on: Ornamental plants in greenhouses, saran and shade houses, outdoor containers and field-grown nursery stock.

Mites controlled: Two spotted spider mite, Pacific spider mite, McDaniel spider mite, European red mite, Yellow spider mite

Packaging: 1 pint (16 fl. oz.), 8 per case

Notes: **Notavo** should not be used through any type of irrigation system. Do not apply **Notavo** more than once per crop cycle in greenhouse, saran and shade house culture. Apply **Notavo** in sufficient water to ensure uniform and thorough coverage of foliage.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|-----------------|----------|-----------------|-----|-------------------|----------------------|--------------------------------------|-------------|
| 53883-428-59807 | 12 hours | Tetrazines | 10A | Clofentezine | 2 to 8 fl. oz. | ⅓ tsp to ½ tsp (0.6 mL to 2.4 mL) | 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 Integrated 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 |
|-----------------|----------|------------------|-----|-------------------|----------------------|--|-------------|
| 53883-419-59807 | 12 hours | Benzoyl Urea IGR | 15 | Novaluron | 6 to 8 fluid ounces | $\frac{3}{8}$ tsp to $\frac{1}{2}$ tsp | Spray |

Pradia®

Pradia Insecticide is a combination of two unique insecticides providing both contact and systemic activity. **Pradia** contains cyclaniliprole and flonicamid in a soluble concentrate formulation for use as a foliar spray or sprench. **Pradia** delivers a quick knockdown (48 hours) and excellent long-term control of 3 to 4 weeks of residual activity on problem insects such as aphids, thrips and whiteflies.

Labeled for use on: Ornamental plants grown in greenhouses or nurseries.

Insects Controlled: adelgids, aphids, armyworms, flea beetles, Japanese beetles, lace bugs, leafminers, leafrollers, loopers, mealybugs, midges, plant bugs, psyllids, soft scales, thrips, and whiteflies

Packaging: 1 quart (32 fl. oz.) container, 4 per case

Notes: The addition of a high-quality spreader/adjuvant may enhance **Pradia** activity.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|----------------|----------|---|---------|--------------------------------|----------------------|-------------------|------------------|
| 71512-33-59807 | 12 hours | Anthrallic Diamide + Pyridine Carboxamides | 28 + 29 | Cyclaniliprole + Flonicamid | 10 to 17.5 fl. oz. | 3 mL to 6 mL | Spray or sprench |

Sarisa®

Sarisa Insecticide contains a novel active ingredient, cyclaniliprole, formulated as a soluble concentrate that acts on contact and ingestion. **Sarisa** provides quick knockdown (48 hours) of target pests with residual control of 3 to 4 weeks on thrips, caterpillars, and beetles (including flea and Japanese beetles), along with other sucking and chewing insects.

Labeled for use on: Ornamental plants grown in greenhouses or nurseries plus greenhouse-grown tomatoes (crop subgroup 8-10A) and greenhouse-grown peppers (crop subgroup 8-10B).

Insects Controlled: adelgids, armyworms, borers (beetle and caterpillar) flea beetles, gypsy moths, plant bugs, Japanese beetles, lace bugs, leafminers, leafrollers, loopers, mealybugs, psyllids, root weevil complex (adults), thrips, webworms, whiteflies

Packaging: 0.5 gal. (64 fl. oz.), 4 per case

Notes: The addition of a high-quality adjuvant/surfactant may enhance **Sarisa** activity.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|----------------|---------|-----------------|-----|-------------------|-------------------------|-------------------|-------------|
| 71512-32-59807 | 4 hours | Diamide | 28 | Cyclaniliprole | 10.9 to 27 fluid ounces | 3.2 mL to 8 mL | 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.

Labeled for use on: Ornamentals grown in greenhouses, container and field nurseries, lath and shade houses, arboretums, interiorscapes, and on greenhouse grown fruiting vegetables (except cucurbits).

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.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|-----------------|----------|--------------------------|-----|-------------------|--------------------------|--|-------------|
| 70506-447-59807 | 12 hours | Napthoquinone derivative | 20B | Acequinocyl | 6.4 to 12.8 fluid ounces | $\frac{3}{8}$ tsp to $\frac{3}{4}$ tsp (2 mL to 4 mL) | 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 greenhouses, 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: 1 quart container, 8 per case

Notes: Apply in sufficient volume of water to ensure thorough coverage of the foliage. Begin application as soon as mites appear.

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 |
|-----------------|----------|-----------------------|---------|------------------------|----------------------|---|--------------|
| 70506-557-59807 | 12 hours | Glycoside + Carbazate | 20D + 6 | Bifenazate + Abamectin | 3 to 6 fluid ounces | $\frac{3}{16}$ tsp to $\frac{3}{8}$ tsp | Foliar spray |

Triact® 70

Triact 70 (clarified hydrophobic extract of Neem oil) is a broad-spectrum fungicide, miticide and insecticide that is 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** 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. 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 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 | Botanical Oils | UNE | Clarified hydrophobic extract of neem oil | 0.5 gallon, 1 gallon to 2 gallons | 3 $\frac{3}{4}$ tsp to 7 $\frac{1}{2}$ tsp to 15 tsp (5 TBS) (19 mL to 38 mL to 76 mL) | Spray |

Amendments

Suffusion® Liquid

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

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, soil production, and turfgrass.

Conditions Controlled: Resistance to wetting.

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

Notes: For application information, 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 | 0.5 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 | 0.5 lb. to 2 lb. per cubic yard | Soil incorporation or top dressing |

Herbicides

Biathlon®

Biathlon is a pre-emergent granular herbicide for control of weeds in field and container production ornamentals, conifers and Christmas trees, grounds maintenance, and other label specified non-crop areas. **Biathlon** contains the active ingredients oxyfluorfen and prodiamine formulated on an engineered granule that provides an unprecedented level of dust reduction resulting in improved worker safety and ease of application. **Biathlon** applicators are required to wear minimal Personal Protective Equipment (PPE) – long sleeved shirt and long pants, waterproof gloves, and socks plus shoes. **Biathlon** has a Caution signal word. **Biathlon** provides control of a wide range of problem grass and broadleaf weeds by creating a barrier in the soil and is active for several months. **Biathlon** works by inhibiting cell division and disrupting cell wall formation in shoots and roots of emerging seedling weeds. Broadcast **Biathlon** uniformly over ornamental containers or field soil at the rate of 100 lbs./acre. Users should irrigate new plantings before **Biathlon** application with ½" water to ensure firm soil or media around the root system. After application, **Biathlon** should be applied when rain is soon forecasted or watered-in with approximately ½" of water. **Biathlon** should be broadcast evenly over media for maximum performance. To prevent weed escapes, do not disturb the soil or media in **Biathlon** treated areas; this will disrupt the barrier necessary for successful weed control.

Labeled for use on: Container and field grown ornamentals, Christmas tree and conifer farms, grounds maintenance ornamentals, cut flower and foliage crops and non-crop land.

Labeled Plants: **Biathlon** has shown excellent plant tolerance on a wide variety of ornamentals. Please consult the label for a full list. Crops not listed as tolerant to **Biathlon** should be evaluated on a small scale for 30-60 days after application for herbicidal injury prior to widespread application.

Packaging: 50 lbs. bag

Notes: Do not apply to wet foliage. **Biathlon** is a pre-emergent herbicide and will not control established weeds. **Biathlon** is not labeled for use on vegetable or edible fruit crops, turf, and bedding plants or flowering crops, except as listed in the grounds maintenance section of the label. Avoid application to plants that can channel herbicide to the leaf base (e.g. yucca, dracaena, daylily, hosta etc.). See label for additional restrictions and precautions.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Recommended lbs. per Acre | Maximum lbs. per year - per Acre | Application |
|--------------|----------|--------------------------------|--------|--------------------------|---|----------------------------------|--------------------|
| 59807-12 | 24 hours | Diphenylether + Dinitroaniline | 14 + 3 | Oxyfluorfen + Prodiamine | 100 lbs. (can apply twice, 3 months apart) | 200 lbs. | Granular broadcast |

Casoron® 4G

Casoron 4G is a pre-emergent herbicide which easily handles many troublesome 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, which acts by inhibiting germination, and actively dividing cells of meristems of growing points and root tips; thereby, inhibiting cell division through cellulose synthesis. **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 ½ 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 under cool weather conditions in late fall or very early spring. A fall application may be necessary to control certain perennials, such as fescues, orchardgrass, quackgrass, docks, and dandelions. Do not treat newly planted trees until at least 6 months 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 and restrictions.

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 |
|-----------------|----------|-----------------|-----|-------------------|-----------------|-------------|
| 70506-519-59807 | 12 hours | Benzonitrile | 20 | Dichlobenil | 100 to 200 lbs. | Granular |

FireWorxx™

FireWorxx is a post emergent herbicide for control of weeds in greenhouse, nursery and landscape ornamentals, grounds maintenance, and non-cropland areas. **FireWorxx** is a FireWorxx is an OMRI-listed, fast-acting, non-selective broadleaf weed, grass, algae and moss killer. **FireWorxx** is not translocated. It will burn only those plant parts that are coated with spray solution. **FireWorxx** can be used any time during the year and works best during sunny, warm and dry conditions. Application during cold weather may delay appearance of plant damage. If rain falls within 3 hours of treatment, an additional spray may be required. **FireWorxx** controls many common annual weeds and suppresses the growth of biennial and perennial weeds. It can be used in cultivated areas prior to planting crops. Treated areas can be re-planted as soon as desirable level of weed control is obtained.

Labeled for use on: Greenhouse, nursery and landscape ornamentals, grounds maintenance, and non-cropland areas.

Weeds Controlled: **FireWorxx** is a post emergent, burn-down herbicide. Any contact of **FireWorxx** to desirable plants or plant parts will risk significant plant injury. Do not overspray **FireWorxx** onto desirable plants.

Packaging: 1 gallon container, 4 per case

Notes: **FireWorxx** is a Caution labeled, OMRI-listed, USDA Organic herbicide that makes an excellent replacement for applicators concerned with glyphosate-based herbicides. **FireWorxx** is fast acting and does not have residual activity. It can be used around edible crops, herbs, ornamentals, landscapes and non-crop areas.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Rate per 100 gallons | Rate per 1 gallon | Application |
|----------------|----------|-----------------|-----|-----------------------------|----------------------|---------------------|-----------------------|
| 67702-54-59807 | 24 hours | Soaps | M | Caprylic Acid + Capric Acid | 3 to 9 gallons | 3.8 to 11.5 fl. oz. | Contact foliar sprays |

Fortress®

Fortress is a pre-emergent granular herbicide for control of weeds in nursery containers and field grown ornamentals. Formulated on an engineered granule, **Fortress** produces virtually no dust and low odor, resulting in improved worker safety and ease of application. Applicators are required to wear minimal Personal Protective Equipment (PPE) – long sleeved shirt and long pants, waterproof gloves, and socks plus shoes. **Fortress** has a CAUTION signal word and a 12-hour REI.

Fortress controls a wide range of both grassy and broadleaf weeds by creating a barrier in the soil. **Fortress** works by inhibiting cell division and disrupting cell wall formation in roots and shoots of emerging weed seedlings. Irrigate new plantings before **Fortress** application with ½" water to ensure settled and firm soil around the root system. For best results, apply **Fortress** prior to rainfall or irrigate with approximately ½" of water. Broadcast **Fortress** uniformly over ornamental containers or field soil at the rate of 150 lbs./acre. To prevent weed escapes, do not disturb the soil or media in **Fortress** treated areas; this will disrupt the herbicidal barrier necessary for successful weed control.

Labeled for use on: Container and field grown ornamentals.

Labeled Plants: **Fortress** has shown excellent plant tolerance on a wide variety of ornamentals. Please read the label for the full list. Crops not listed as tolerant to **Fortress** should be evaluated on a small scale for 30-60 days after application for herbicide injury prior to widespread application.

Packaging: 50 lbs. bag

Notes: Do not apply to wet foliage. **Fortress** is a pre-emergent herbicide and will not control established weeds. **Fortress** is not labeled for use on vegetable or edible fruit crops, turf, and bedding plants. Avoid application to plants that can channel herbicide to the leaf base. See label for additional restrictions and precautions.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Recommended lbs. per Acre | Maximum lbs. per year - per Acre | Application |
|--------------|----------|------------------------|--------|---------------------|---------------------------|----------------------------------|--------------------|
| 59807-19 | 12 hours | Benzamide and Pyridine | 21 + 3 | Isoxaben + Dithopyr | 150 lbs. | 300 lbs. | Granular broadcast |

Fuerte®

Fuerte is a pre-emergent granular herbicide for control of weeds in field, container and landscape ornamentals, grounds maintenance, and non-cropland areas. Also for Christmas Tree Farms and conifer farms and other label specified non-crop areas. **Fuerte** contains the active ingredients flumioxazin and proflaminate formulated on an engineered granule that provides an unprecedented level of dust reduction resulting in improved worker safety and ease of application. **Fuerte** applicators are required to wear minimal Personal Protective Equipment (PPE) of long-sleeved shirt and long pants, waterproof gloves, and socks plus shoes. **Fuerte** has a Caution signal word and carries a 12-hour REI. **Fuerte** provides control of a wide range of problem grass and broadleaf weeds by creating a barrier in the soil and is active for several months. **Fuerte** contains the active ingredient flumioxazin, which is a protoporphyrinogen oxidase inhibitor (PPO) mode of action (MOA 14) and proflaminate, a member of the dinitroanilines family of herbicides (MOA 3) that inhibits the steps involved with cell division. The active ingredients control susceptible weeds by preventing growth and development of newly germinated seeds. **Fuerte** will not control established weeds.

Irrigate new plantings before **Fuerte** application with 1/2" water to ensure firm and settled soil media around the root system. Broadcast **Fuerte** uniformly over ornamental containers or field soil at the rate of 100 lbs./acre. **Fuerte** should be applied when rain is soon forecasted or watered-in with approximately 1/2" of water soon after application. **Fuerte** should be broadcast evenly over media for maximum performance. To prevent weed escapes, do not disturb the soil or media in **Fuerte** treated areas; this will disrupt the barrier necessary for successful weed control.

Labeled for use on: field, container and landscape ornamentals, grounds maintenance, and non-cropland areas. Also for Christmas Tree Farms and conifer farms. and other label specified non-crop areas.

Labeled Plants: **Fuerte** has shown excellent plant tolerance on a wide variety of ornamentals. Please read and follow the label for a full list. Crops not listed as tolerant to **Fuerte** should be evaluated on a small scale for 30-60 days after application for herbicidal injury prior to widespread application.

Packaging: 50 lbs. bag

Notes: Do not apply **Fuerte** to wet foliage or leave product granules on crop leaves. **Fuerte** is a pre-emergent herbicide and will not control established weeds. **Fuerte** is not labeled for use on vegetable or edible fruit crops, turf, and bedding plants or flowering crops, except as listed in the label. Avoid application to plants that can channel herbicide to the leaf base (e.g. yucca, dracaena, daylily, hosta etc.). See label for additional restrictions and precautions.

| EPA Reg. No. | REI | Chemical Family | MOA | Active Ingredient | Recommended lbs. per Acre | Maximum lbs. per year - per Acre | Application |
|--------------|----------|---------------------------------------|--------|----------------------------|---|----------------------------------|--------------------|
| 59807-20 | 12 hours | N-phenylphthalimides + Dinitroaniline | 14 + 3 | Flumioxazin + Proflaminate | 100 lbs. (can apply twice, 3 months apart) | 200 lbs. | Granular broadcast |

Plant Growth Regulators

B-Nine® WSG

B-Nine WSG reduces plant height in ornamental plants by reducing internode length. Other benefits include a deeper green color and reduced breakage during shipping.

B-Nine WSG when applied to plant foliage is absorbed into the leaf, moves within the plant to the growing points to reduce internode elongation. On certain crops a tank mix of **B-Nine WSG** plus Altercel can provide a synergistic effect that results in enhanced activity. An example is 1250 PPM of **B-Nine WSG** and 1250 PPM of Altercel for moderate height control in finishing bedding and perennial plants.

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

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 |
|-----------------|----------|-----------------|-----|-------------------|--------------------------|-------------------------|--------------|
| 70506-532-59807 | 12 hours | Hydrazide | 1 | Daminozide | 1000 to 2500 to 7500 PPM | ¼ TBS to 2 TBS to 6 TBS | Spray to wet |

Altercel™

Altercel is among the most reliable and widely used plant growth regulators on the market today. **Altercel** may be used on any crop in the greenhouse 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 **Altercel** can provide a synergistic effect that results in enhanced activity. An example is 1250 PPM of B-Nine WSG and 1250 PPM of **Altercel** for height control in finishing bedding plants. Maximum effect of spray applications occurs when **Altercel** is applied as a foliar spray, thereby entering the plant through leaves and stems.

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

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

Packaging: 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, **Altercel** should not be used after October 15. In the South, **Altercel** 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 |
|----------------|----------|---------------------|-----|----------------------|-------------------------|----------------------------------|-----------------|
| 62097-21-59807 | 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 |

Pac O™

Pac O is an extremely active plant growth regulator that can significantly curtail unwanted plant growth through reduced internode elongation.

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, liners, 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 **Pac O** 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 |
|----------------|----------|-----------------|-----|-------------------|--------------------------------|--|-------------------------------------|
| 62097-11-59807 | 12 hours | Triazole | 1 | Paclobutrazol | 1 to 30 Drench, 5 to 100 Spray | 1 PPM = 1mL/gl; 5PPM = 4.7 mL/gl; 30 PPM = 1 fl oz/gl | Spray, drench, soak, media spray |

Hormodin®

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

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

To apply **Hormodin**, moisten cuttings, in particular the basal ends of the cuttings before treatment (except geraniums). Pour a small amount of **Hormodin** into a bowl or pan. Dip and stir basal ends of the cuttings in **Hormodin**. Remove excess powder by tapping on the rim of the container. Then, plant treated cuttings in rooting medium. Simply stated, "Dip it - Tap it - Stick it". **Hormodin** works best when used on fresh cuttings.

Hormodin is available in three strengths: **Hormodin 1**, at 0.1% (IBA); **Hormodin 2**, at 0.3% (IBA); and **Hormodin 3**, at 0.8% (IBA).

Hormodin 1 is a general purpose powder designed for the grower who propagates plants such as roses, carnations, poinsettias, some shrubs and most soft herbaceous 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) and 10 kg pails. **Hormodin 3** is packaged in 8 oz. containers (12 x 8 oz. per case).

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 rooting medium) |

WEIGHTS AND MEASURES CHARTS



AMERICAN LIQUID MEASURE

1 teaspoon (tsp) = 80 drops
 1 tablespoon (tbs) = 3 teaspoons
 1 fluid ounce (fl oz) = 2 tablespoons
 1 cup = 8 fluid ounces
 pint (pt) = 2 cups = 16 fluid ounces
 1 quart (qt) = 2 pints = 32 fluid ounces
 1 gallon (gal) = 4 quarts = 8 pints = 128 fluid ounces

AMERICAN DRY MEASURE

3 teaspoons = 1 tablespoon
 16 tablespoons = 1 cup
 1 pound (lb) = 16 ounces

LINEAR MEASURE

1 foot (ft) = 12 inches
 1 yard (yd) = 3 feet
 1 mile = 5,280 ft = 1,760 yd

SURFACE MEASURE

1 square foot (sq ft) = 144 square inches
 1 square yard (sq yd) = 9 square feet
 1 acre = 43,560 sq ft = 4,840 sq yds

VOLUME MEASURE

1 cubic foot (cu ft) = 1,728 cubic inches (cu in) = 7.48 gallons
 1 cubic yard = 27 cubic feet

CONVERSION TABLE

1 kilogram (kg) = 1000 grams (g) = 2.2 lbs
 1 gram (g) = 1000 milligrams (mg) = .035 ounce
 1 liter = 1000 milliliters (ml) = 1.057 quarts
 1 milliliter = .034 fluid ounces

1 pound = 453.6 grams
 1 ounce = 28.35 grams

1 gallon = 4 quarts = 3.785 liters
 1 quart = 2 pints = .946 liters
 1 pint = .473 liters
 1 ounce = 29.6 milliliters
 1 tsp = 5 mL

1 gallon of water = 8.34 lbs (approximately)

1 part per million (ppm) = 1 milligram/liter
 = 1 milligram/kilogram
 = .0001 percent
 = .013 ounces in 100 gallons
 of water

1 percent = 10,000 ppm
 = 10 grams per liter
 = 10 grams per kilogram
 = 1.33 ounces by weight
 per gallon of water
 = 8.34 pounds/100 gallons
 of water

DILUTION OF LIQUID PESTICIDES AT VARIOUS CONCENTRATIONS

| DILUTION | 1 GAL | 3 GAL | 5 GAL | 15 GAL |
|-----------|---------------|--------|---------------|----------------|
| 1 - 100 | 2 tbs + 2 tsp | ½ cup | ¾ cup + 5 tsp | 1 cup + 3 tbs |
| 1 - 200 | 4 tsp | ¼ cup | 6½ tbs | ½ cup + 2 tbs |
| 1 - 400 | 2 tsp | 2 tbs | 3 tbs | 4 tbs + 2½ tsp |
| 1 - 800 | 1 tsp | 1 tbs | 1 tbs + 2 tsp | 3 tbs + 2½ tsp |
| 1 - 1,000 | ¾ tsp | 2¼ tsp | 1 tbs + 1 tsp | 1 pt + ½ cup |

Equivalent quantities of dry materials(wettable powders) for various quantities of water based on recommended pounds to 100 gallons.

| Water | Quantity of Material | | | | | |
|----------|----------------------|-------|-------|-------|-------|-------|
| 100 gals | 1 lb | 2 lb | 3 lb | 4 lb | 5 lb | 6 lb |
| 25 gals | 4 oz | 8 oz | 12 oz | 1 lb | 1¼ lb | 1½ lb |
| 5 gals | 3 tbs | 1½ oz | 2½ oz | 3¼ oz | 4 oz | 5 oz |
| 1 gal | 1 tsp | 2 tsp | 1 tbs | 4 tsp | 5 tsp | 2 tbs |

Equivalent quantities of liquid materials (emulsion concentrates, etc.) for various quantities of water based on pints per 100 gallons.

| Water | Quantity of Material | | | | | |
|----------|----------------------|---------|---------|----------|---------|---------|
| 100 gals | ½ pint | 1 pint | 2 pints | 3 pints | 4 pints | 5 pints |
| 25 gals | 2 fl oz | 4 fl oz | 8 fl oz | 12 fl oz | 1 pint | 1¼ pint |
| 5 gals | 1 tbs | 1 fl oz | 2 fl oz | 2½ fl oz | 3 fl oz | 4 fl oz |
| 1 gal | ½ tsp | 1 tsp | 2 tsp | 3 tsp | 4 tsp | 5 tsp |

CONVERSION TABLES FOR USE OF MATERIALS ON

LIQUID MATERIALS

| RATE/ACRE | RATE/1000 SQ FT | RATE/100 SQ FT |
|-----------|-----------------|----------------|
| 1 pint | ⅓ tbs | ¼ tsp |
| 1 quart | 1½ tbs | ½ tsp |
| 1 gallon | 6 tbs | 2 tsp |
| 25 gals | 4½ pints | 1 cup |
| 50 gals | 4½ quarts | 1 pint |
| 100 gals | 9 quarts | 1 quart |
| 200 gals | 4½ gals | 2 quarts |
| 300 gals | 6¾ gals | 3 quarts |
| 400 gals | 9 gals | 1 gallon |
| 500 gals | 11¼ gals | 1¼ gals |

DRY MATERIALS

| RATE/ACRE | RATE/1000 SQ FT | RATE/100 SQ FT |
|-----------|-----------------|----------------|
| 1 lb | 2½ tsp | ¼ tsp |
| 3 lbs | 2¼ tbs | ¾ tsp |
| 4 lbs | 3 tbs | 1 tsp |
| 5 lbs | 4 tbs | 1¼ tsp |
| 10 lbs | ½ cup | 2 tsp |
| 100 lbs | 2¼ lbs | ¼ lb |
| 200 lbs | 4½ lbs | ½ lb |
| 300 lbs | 6¾ lbs | ¾ lb |
| 400 lbs | 9 lbs | 1 lb |
| 500 lbs | 11¼ lbs | 1¼ lbs |

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OHP QUICK REFERENCE Product Rate Guide

| Products | Rate per 100 gallons | Rate per 1 gallon |
|------------------------------|---------------------------------|--|
| Fungicides | | |
| Astun® | 10 to 17 fluid ounces | 3 mL to 5 mL |
| Areca® | 1.25, 2.5, 5 pounds | 1¼ tsp, 2½ tsp, 5 tsp (5.7 g, 11.4 g, 22.7 g) |
| Grotto® | 0.5 to 2 gallons | 3¾ tsp to 15 tsp (5 TBS) (19 mL to 76 mL) |
| Kalmor® | 0.5 to 2 pounds per acre | ½ TBS to 1½ TBS per 1,000 sq ft |
| OHP Chipco® 26019 | 1 to 2 pounds | 1½ tsp to 2½ tsp (4.5 mL to 9.1 mL) |
| OHP 6672® 4.5 F | 10.75 to 20 fluid ounces | ¾ tsp to 1½ tsp (3.2 mL to 5.9 mL) |
| OHP 6672® 50 WP (WSP) | 8 to 16 ounces | ⅛ tsp to ½ tsp |
| Segway® O | 1.5 to 6 fluid ounces | ⅛ tsp to ½ tsp (0.44 mL to 1.77 mL) |
| Seido™ | 4 to 5 fluid ounces | 1.18 mL to 1.48 mL |
| Terraclor® 400 | 6 to 12 fluid ounces | ¾ tsp to ¾ tsp (1.8 mL to 3.6 mL) |
| Terraguard® SC | 2 to 8 to 16 fluid ounces | ⅛ tsp, ½ tsp, 1 tsp (0.6 mL to 2.4 mL to 4.8 mL) |
| Terrazole® 35% WP | 3.5 to 10 ounces | ½ tsp to 1½ tsp (1 g to 2.8 g) |
| Terrazole® L | 2.5 to 7 fluid ounces | ⅛ tsp to ¾ tsp (0.7 mL to 2.1 mL) |
| Triact® 70 | 0.5 gallon, 1 gallon, 2 gallons | 3¾ tsp to 7½ tsp to 15 tsp (5 TBS) (19 mL to 38 mL to 76 mL) |
| Triathlon® BA | 0.5 to 6 quarts | 1 tsp to 11½ tsp (4.8 mL to 57 mL) |

| | | |
|---------------------------------------|----------------------------------|--|
| Insecticides / IGRs/ Miticides | | |
| Adept® | 1 ounce drench or 2 ounces spray | See label for information. |
| Ancora® | 14 to 28 ounces | 4 to 8 grams |
| Azatin® O | 4 to 16 fluid ounces | ¼ tsp to 1 tsp (1.2 mL to 4.8 mL) |
| BotaniGard® 22WP | .5 to 2.0 lbs. | 1.5 to 6 tsp |
| BotaniGard® ES | .5 to 2 quarts | 1 to 4 tsp |
| BotaniGard® MAXX | 8 to 32 fl. oz. | .5 to 2 tsp |
| Floramite® SC and SC/LS | 4 to 8 fluid ounces | ¼ tsp to ½ tsp (1.2 mL to 2.4 mL) |
| Fulcrum® | 2 to 12 fluid ounces | ⅛ tsp to ¾ tsp (0.6 mL to 3.6 mL) |
| Kopa™ Insecticidal Soap | 1 to 2 gallons | 1.3 to 2.6 fl oz (39 mL to 76 mL) |
| Marathon® 1% G | See label for more information. | ⅛ tsp to 1½ tsp per pot depending on size |
| Marathon® II | 1.7 fluid ounces | ⅛ tsp (0.5 mL) |
| Notavo® | 2 to 8 fluid ounces | ⅛ tsp to ½ tsp (0.6 mL to 2.4 mL) |
| Pedestal® | 6 to 8 fluid ounces | ¾ tsp to ½ tsp (1.8 mL to 2.4 mL) |
| Pradia® | 10 to 17.5 fluid ounces | 3 mL to 6 mL |
| Sarisa® | 10.9 to 27 fluid ounces | 3.2 mL to 8 mL |
| Shuttle® O | 6.4 to 12.8 fluid ounces | ¾ tsp to ¾ tsp (2 mL to 4 mL) |
| Sirocco® | 3 to 6 fluid ounces | ¾ tsp to ¾ tsp (0.9 mL to 1.8 mL) |
| Triact® 70 | 0.5 gallon, 1 gallon, 2 gallons | 3¾ tsp to 7½ tsp to 15 tsp (5 TBS) (19 mL to 38 mL to 76 mL) |

| | | |
|--------------------|--|--|
| Herbicides | | |
| Biathlon® | 100 pounds per acre | |
| Casoron® 4G | 100 to 200 pounds per acre | |
| FireWorxx™ | 3 to 9 gallons per 100 gallons or 3.8 to 11.5 fl. oz. per 1 gallon | |
| Fortress® | 150 pounds per acre | |
| Fuerte® | 100 pounds per acre | |

| Plant Growth Regulators | Parts per Million (PPM) | Rate per 1 gallon |
|---------------------------------|--|--|
| B-Nine® WSG - Spray | 1000 to 2500 to 7500 PPM | ¾ TBS to 2 TBS to 6 TBS |
| Altercel™ - Spray | 200 to 1250 to 4000 PPM | .22 to 1.36 to 4.34 fluid ounces |
| Hormodin® 1, 2 or 3 | — See label for which Hormodin to use on various cuttings. — | |
| Pac O™ - 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 the entire label for full information and application instructions.

tbs = tablespoon tsp = teaspoon mL = milliliter g = grams 1 fl oz = 29.6 mL 1 tsp = 5 mL

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