









Greenhouse and nursery portfolio summary

Fungicides




Solutions	FRAC Code	AI	Use Rates per 100 Gallons	Target Pests/Diseases	Application Timing and Tips
Aliette® 	P07/33	fosetyl-AI	1.25-5 pounds	Downy mildew, Phytophthora and Pythium. Suppression of beech leaf disease (young trees).	Do not apply within 14 days of a copper or Daconil® fungicide (chlorothalonil) application.
Banol® 	28	propamocarb HCl	20-30 fluid ounces	Phytophthora and Pythium.	For best results, water in to remove leaf residue and improve drench efficacy. Banol fungicide requires no agitation after initial mixing.
Broadform® 	7+11	fluopyram + trifloxystrobin	2-8 fluid ounces	Alternaria, black spot, beech leaf disease, Botrytis, Botryosphaeria, Cylindrocladium, downy mildew, Fusarium, powdery mildew, Rhizoctonia, rust, scab and other diseases.	Do not use Broadform fungicide on leatherleaf fern or Concord grape. Test petunia and calibrachoa varieties prior to widespread use.
Chipco® 26019 FLO 	2	iprodione	1-2 pounds	Alternaria, Botrytis, Cylindrocladium, Fusarium, Rhizoctonia and other diseases.	Do not drench impatiens and pothos. Do not use on Spathiphyllum.
Compass® 	11	trifloxystrobin	Spray: 1-4 fluid ounces Drench: 0.5-2 fluid ounces	Alternaria, black spot, Botrytis, Botryosphaeria, Cylindrocladium, downy mildew, Fusarium, powdery mildew, Rhizoctonia, rust, scab and other diseases.	Do not drench Compass fungicide on pansies. Do not use on leatherleaf fern.
Fame® SC 	11	fluoxastrobin	Spray: 1-8 fluid ounces Drench: 0.15-0.6 fluid ounces	Anthracnose (Colletotrichum), leaf spot, downy mildew, Fusarium, Phytophthora, Rhizoctonia and other diseases.	Exceptional xylem mobility provides outstanding control of crown rots caused by Colletotrichum, Fusarium, Phytophthora and Rhizoctonia.
Terrazole® L 	14	etridiazole	2.5-7 fluid ounces	Phytophthora, Pythium root rot, crown rot and damping off.	Respirator use is required. For best results, water in to remove leaf residue and improve drench efficacy.
Terrazole® WP 	14	etridiazole	3.5-10 ounces	Phytophthora, Pythium root rot, crown rot and damping off.	Respirator use is required. For best results, water in to remove leaf residue and improve drench efficacy. Agitate tank to maintain suspension and ensure uniform application.

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Greenhouse and nursery portfolio summary

Herbicides

Solutions	HRAC Code	AI	Use Rates per 100 Gallons	Use Rates oz/1,000 ft ² Use Rates tsp/Gallon	Target Weeds	Application Timing and Tips
Dismiss® 	14	sulfentrazone	4-12 fluid ounces	0.092-0.275 fluid ounces /1,000 square feet 0.5-1.5 teaspoons in 0.5-2.3 gallons	Yellow nutsedge, kyllinga and purple nutsedge.	Labeled for preemergence and postemergence directed sprays in ornamental beds. Can provide up to 60 days of sedge control with higher rates.
Marengo® FLO 	29	indaziflam	7.5-18.5 fluid ounces in 40-100 gallons	0.17-0.36 fluid ounces in 0.5-2.3 gallons 1-2 teaspoons in 0.5-2.3 gallons	Prevents over 100 broadleaf weeds, grasses and annual sedges.	Water in with at least 0.25 inch of water. Split preemergence applications (7.5 fluid ounces) applied -6 weeks apart extends control longer than a single 15-ounce application.
Marengo® G 	29	indaziflam	100-400 pounds	2.3-4.6 pounds per 1,000 square feet	Prevents over 100 broadleaf weeds, grasses and annual sedges.	Marengo G herbicide needs to be activated by rainfall or irrigation prior to weed germination for most effective preemergence control. Apply over the top of dry foliage for weed prevention. Split applications (150 lb x2) applied -6 weeks apart extends control longer than a single 300-pound application.

Plant growth regulators








Solutions	Mode of Action	AI	Use Rates per 100 Gallons	Use Rates per Gallon	Sites and Use	Application Timing and Tips
B-Nine® 	1	daminozide	1,000 ppm = 16 ounces 2,500 ppm = 39 ounces 7,500 ppm = 118 ounces	0.092-0.18 ounces 0.39 ounces 1.18 ounces	Ornamentals grown in greenhouses, nurseries and shadehouses.	Adjust rates used depending on crop needs. Use solution within 24 hours. Apply morning or evening to improve plant absorption.

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Greenhouse and nursery portfolio summary

Insecticides







Solutions	IRAC Code	AI	Use Rates per 100 Gallons	Target Pests	Application Timing and Tips
Adept[®] 	15	diflubenzuron	1-2 fluid ounces 1-2 bags	Larvae of fungus gnats, shore flies, leafminers, armyworms, lepidopteran and pests; suppression of whiteflies.	Do not apply to poinsettias, hibiscus or Rieger begonia. Do not exceed labeled rates, volumes or number of applications.
Altus[®] 	4D	flupyradifurone	7-14 fluid ounces	Sucking pests including but not limited to aphids, leafhoppers, mealybugs, plant bugs, psyllids, scale (soft and armored) and whiteflies; suppressive to thrips.	Combine Altus insecticide with horticultural oil when targeting scale. Use of a spreader will improve coverage and efficacy when targeting sucking pests. Do not tank-mix with azole fungicides (FRAC Group 3) during bloom period.
Aria[®] 	29	flonicamid	Spray or drench: 0.7-4.3 ounces	Sucking pests including adelgids, aphids, scale, mealybugs and thrips.	Aria insecticide has translaminar, contact and systemic activity, which make it ideal for ornamental applications, especially hanging baskets. Aria insecticide stops aphids from feeding within one hour and causes mortality in as little as 48 hours through dehydration and starvation.
CoreTect[®] 	4A	imidacloprid	1-7 tablets	Sucking insects, leaf-feeding beetles, caterpillars, borers, leafminers, thrips and whiteflies.	For use in landscapes, nurseries, greenhouses, forested areas and interiorscapes.
Durentis[™] 	28	chlorantraniliprole	Spray: 0.3-12.8 fluid ounces Drench: refer to label	Leaf-feeding caterpillars, sawflies, beetles including Japanese beetle, fall armyworm, corn earworm, white grubs, lace bugs, leafminers, aphids and European pepper moth.	The addition of a spreader-sticker is recommended for hard-to-wet foliage (e.g., holly, pine, ivy, etc.). Drench application to soil should be made 45-60 days prior to pest hatch or emergence to allow for the insecticide to be adequately taken up by the plant. Irrigate to ensure uptake.
Floramite[®] 	20D	bifenazate	4-8 fluid ounces	All life stages (egg, larva, nymph, adult) of the spider mite family (Tetranychidae).	For best results, adjust tank pH to neutral or acidic range to protect against chemical degradation. The use of a spreader-sticker (e.g., Silwet 77, Sylgard 309) will improve coverage and efficacy.
Kontos[®] 	23	spirotetramat	Foliar spray or drench: 1.7-3.4 fluid ounces	Sucking insect pests such as aphids, leafhoppers, mealybugs, armored and soft scales, whiteflies, and immature thrips (suppression). Controls all mite life stages and members of the spider mite family (Tetranychidae), broad mite and cyclamen mite (Tarsonemidae), eriophyid mite (Eriophyidae), and false spider mite (Tenuipalpidae) families.	Do not use on geraniums (<i>Pelargonium</i> spp.), orchid, hoya, Dracaena, Cordyline, Schefflera, neanthe bella palm and ferns. The use of a spreader-sticker (e.g., Induce, Silwet 77, Sylgard 309) will improve coverage and efficacy.

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Insecticides

Solutions	IRAC Code	AI	Use Rates per 100 Gallons	Target Pests	Application Timing and Tips
Onyx Pro® 	3	24.9% bifenthrin	1.8-32 fluid ounces	Bark beetles, boring beetles, sucking insects, caterpillars, webworms, armyworms, sawflies, weevils, fungus gnats, broad mites and spider mites.	Controls a wide diversity of pests, specifically designed for difficult-to-control bark beetles and borers. Application rates and application timing differ according to the target pest and other factors particular to each local situation.
Savate® 	23	spiromesifen	1-4 fluid ounces	All members of the spider mite family (Tetranychidae), broad mite and cyclamen mite (Tarsonemidae), eriophyid mite (including blister, rust and russet mites), and false spider mite (Tenuipalpidae) families. Also controls all stages of whiteflies (greenhouse, silverleaf, sweet potato).	Do not use Savate insecticide on geraniums (<i>Pelargonium</i> spp.), Peperomia, Dracaena or rose varieties Classy, Attache or Vogue. The use of a spreader-sticker (e.g., Induce, Silwet 77, Sylgard 309) will improve coverage and efficacy.
Shuttle® 	20B	acequinocyl	6.4-12.8 fluid ounces	Controls all life stages of spider mite family (Tetranychidae), including Lewis mites (<i>Eotetranychus lewisi</i>). Also controls broad mite (<i>Polyphagotarsonemus latus</i>).	Shuttle insecticide must be properly suspended and diluted prior to the addition of any adjuvant. The use of a spreader-sticker (e.g., Induce, Sylwet 77, Sylgard 309) is recommended to improve both efficacy and coverage.
Talstar® Nursery 	3	0.2% bifenthrin	1-7.5 pounds per cubic yard	Fire ants, fungus gnat larvae, root mealybugs, black vine weevil, root weevil larvae and white grubs.	For soil incorporation into potting media used in containerized plantings of ornamental trees, shrubs, plants, flowers, conifers, Christmas trees, non-bearing fruit and nut trees, and bushes. Higher rates provide extended residual control.
Talstar® Professional 	3	7.9% bifenthrin	5.4-43.5 fluid ounces	Sucking insects, caterpillars, webworms, armyworms, sawflies, weevils, fungus gnats, broad mites and spider mites.	Greenhouse and ornamental applications including but not limited to trees, shrubs, ground covers, bedding plants and foliage plants in landscapes. Not for use in plant nurseries.
Talstar® Select 	3	7.9% bifenthrin	10-80 fluid ounces	Sucking insects, caterpillars, webworms, armyworms, sawflies, weevils, fungus gnats, broad mites and spider mites	Indoor and outdoor ornamentals, greenhouses, nurseries, lath houses and shadehouses.

OnyxPro and Talstar Select are restricted use pesticides (RUP). For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

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