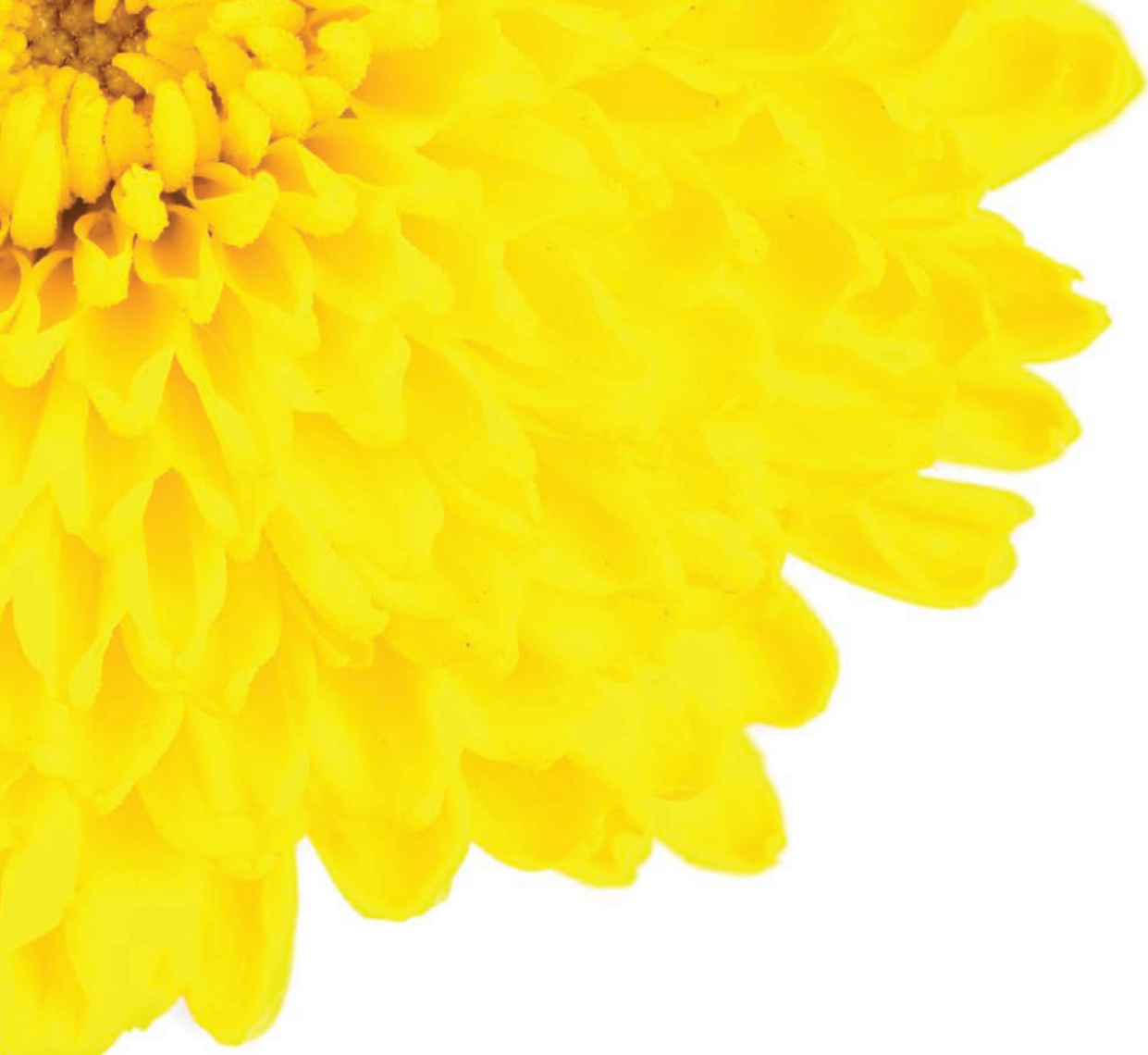


ALWAYS IN



SEASON

syngenta®



# ALWAYS IN SEASON

*Syngenta is committed to partnering with nursery growers by providing dependable solutions for outdoor disease, weed and insect control.*

*The following products are labeled for nursery use and provide the reliable protection you've come to expect from Syngenta. Our broad portfolio of offerings is always in season to keep your plants protected.*





# FUNGICIDES



## *Premier Fungicide for Preventive Disease Control*

Banner Maxx® II fungicide provides broad-spectrum control of common foliar diseases in nursery ornamentals.

- Controls powdery mildew, rust and fungal leaf-spotting diseases with a low odor, highly compatible, easy-mixing formulation.
- Unique formulation and fine particle size allow for excellent coverage and activity on the plant.
- Systemic activity delivers high performance and up to 28 days of residual control.



## *A Versatile Fungicide for Outdoor Applications*

Concert® II fungicide is a convenient pre-mix of propiconazole and chlorothalonil that delivers solid, preventive control of rust, powdery mildew and leaf spots.

- Dual-action product combines contact and systemic fungicides, making it an important rotation product for general spray programs.
- Very cost effective as it provides up to four weeks of control of some diseases.
- With its patented SuperWeatherStik® technology, Concert II adheres tightly to the leaf surface, sticking and staying where sprayed for persistent coverage.



## *Leading Broad-Spectrum Contact Fungicide*

Daconil® fungicide delivers extended protection from more than 50 diseases, including leaf/flower blights, powdery mildews, rusts and scab.

- Long-lasting fungicide with three formulations and no known resistance.
- Labeled for bulb dips and applications to fruit and nut trees.
- Premium formulation with built-in surfactant is rainfast for superior staying power and extended disease protection.



## *With Medallion WDG Fungicide, You Can Have It All*

With a low use rate of 1-4 oz./100 gal., Medallion® WDG fungicide is an economical choice for long-lasting control when used as a soil drench or foliar spray.

- Excellent control of major root, crown and stem rot diseases, caused by *Fusarium*, *Rhizoctonia*, *Thielaviopsis*, *Cylindrocladium* and *Sclerotium*.
- Provides 21-28 days of residual control as a drench and 14 days as a foliar spray.
- Multiple application methods: foliar spray, drench, chemigation and bulb dips.
- Good choice for protecting young plants from root diseases, as it provides reliable protection from seedling to final production.



## *Fast, Powerful Fungicide for Ornamentals*

Micora® fungicide delivers outstanding protection and strong control against diseases caused by downy mildew fungi and *Phytophthora spp.*

- LOK + FLO™ technology locks tightly to the plant surface and creates a barrier of protection, which is rainfast upon drying. Micora also flows into the plant to provide protection on both upper and lower leaf surfaces.
- Four-hour restricted-entry interval (REI) after application.
- Compatibility with beneficial insects makes it an ideal partner for integrated crop management (ICM) programs.



## *One Versatile Solution for Broad-Spectrum Disease Control*

Mural® fungicide combines an advanced generation SDHI with Heritage® fungicide to control the widest range of foliar and soil diseases.

- Apply on a 14-day interval for broad-spectrum protection against leaf spots and foliar and stem blights.
- Enhanced protection and residual control at low use rates make Mural a very cost-effective option for preventive rotation programs.
- Excellent systemic movement and dual modes of action reduce potential for resistance.
- Flexibility to apply as a spray or drench with an easy-mixing, water-dispersible granular formulation.



## *Two Unique Modes of Action, One Effective Resistance Management Tool*

Palladium® fungicide leverages the power of two active ingredients and two modes of action to control foliar and stem diseases and provides excellent protection during shipping and times of plant stress.

- Systemic and contact activity provides protection throughout the plant for 7-14 days.
- Effective at low use rates and a very affordable rotation partner for leaf spots, Botrytis and powdery mildew control.
- Excellent tool for resistance management and rotational programs.



## *Essential Partner in the Fight Against Downy Mildew and Phytophthora Diseases*

Segovis® fungicide puts downy mildew and *Phytophthora* diseases down for the count.

- Unique mode of action with systemic activity provides extended protection.
- Flexibility to be applied as a drench or foliar spray at low use rates.
- Four-hour REI and minimal personal protective equipment (PPE) requirements improve production efficiency.
- Excellent rotation partner with Micora and Subdue® fungicides.



## *Superior Control of Pythium, Phytophthora and Downy Mildew*

Subdue Maxx® fungicide offers superior disease control with the flexibility to apply at any time, helping to enhance productivity.

- Key product for root rot programs that provides long-lasting, cost-efficient control of diseases caused by *Pythium* and *Phytophthora* fungi.
- Labeled for foliar application to control downy mildew and *Phytophthora*.
- Extended protection with soil drench applications.

Subdue GR fungicide provides superior protection as a granular formulation for broadcast and soil incorporation treatments.

- Granular formulation can be top-dressed or incorporated into the media for easy application, reducing labor needed for drench applications.
- No REI with soil incorporation.
- Reliable control with flexible rates.

# HERBICIDES



## *Premier Pre-Emergence Herbicide*

Barricade® herbicide delivers season-long control of more than 30 grassy and broadleaf weeds at a low use rate by preventing growth and development of newly germinated weeds.

- Low water solubility keeps Barricade from moving. It stays in the top 0.5 inch of the soil, minimizing its effect on the roots of nearby plants and trees.
- May be applied to ornamentals as a broadcast spray over the top of established plants grown in beds or containers to prevent growth and development of newly germinated weeds.
- Low odor, non-staining formulation eliminates equipment and plant clean-up.
- Excellent tank-mix partner with post-emergent herbicides.

## *Fast, Effective Grass Herbicide*

Fusilade® II herbicide controls grassy weeds without damaging ornamental plants.

- Can be used over most nursery crops and reduces labor costs associated with hand weeding.
- Controls difficult grassy weeds like bermudagrass, crabgrass and torpedograss in containers.
- Rainfast in one hour and the active ingredient moves quickly to all growing points.

## *Pre-Emergent Control of Grasses, Broadleaf Weeds and Yellow Nutsedge*

Pennant Magnum® herbicide can be used on a range of ornamental plants for pre-emergent control of annual and yellow nutsedge, smooth and large crabgrass and broadleaf weeds.

- Can be sprayed over the top of ornamental plants for nutsedge control.
- Unique mode of action for herbicide resistance management.
- Shoot-absorbed, so it can be used on newly potted plants for immediate weed control.



## *Selective Weed Control for Woody Plants*

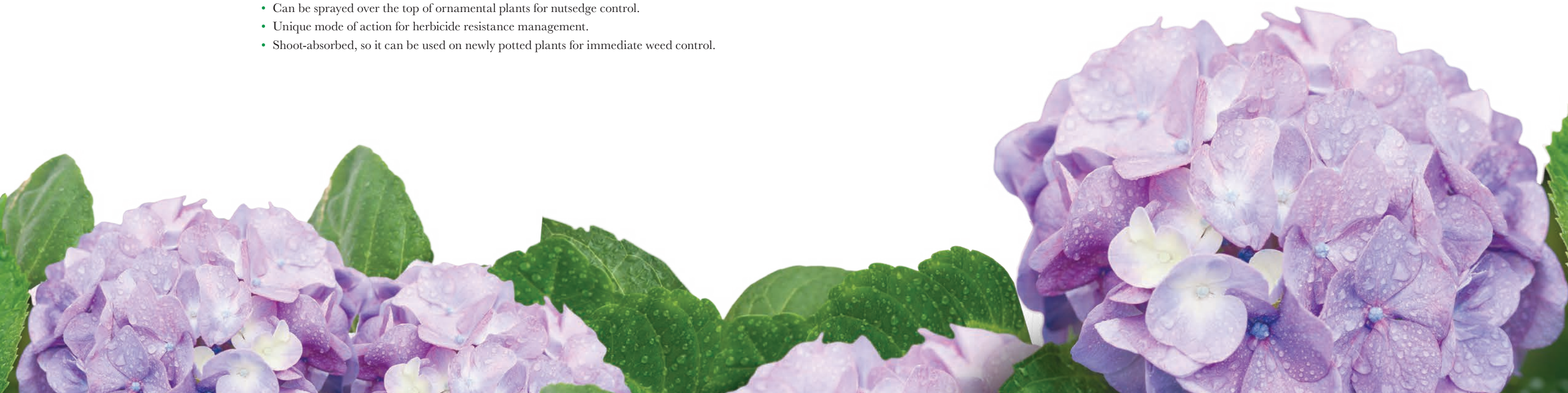
Princep® Liquid herbicide is a pre-emergent herbicide that enters through plants' roots to inhibit growth of a wide variety of annual broadleaf and grass weeds in field production, landscape plantings and nurseries.

- Broad-spectrum pre-emergent herbicide for use over many woody plants.
- Offers very affordable control of nuisance weeds such as crabgrass, pigweed, yellow nutsedge, chickweed and groundsel.
- Liquid formulation allows for easy handling and shoot absorption has less impact on roots of ornamentals.

## *Fast and Precise Weed Control*

Reward® is a fast-acting, non-selective herbicide for control of weeds in the greenhouse, nursery and aquatic environments.

- Superior formulation for fast burndown of most common weeds; first effects can be seen within an hour.
- Use under production benches and around containerized or field-grown plants as part of a weed management program.
- Offers aquatic and greenhouse weed control at low use rates.
- As a non-selective herbicide, Reward is a great tank-mix partner:
  - Use in a tank-mix with Barricade or other pre-emergent herbicides for residual weed control.
  - Use a low rate with glyphosate products for controlling perennial and deeply rooted weeds.





# INSECTICIDES



## *The Proven Standard for Mite and Leafminer Control*

Avid® miticide/insecticide delivers proven, broad-spectrum control of mites and leafminers as well as suppression of aphids, thrips and whiteflies.

- Translaminar activity allows the active ingredient to flow through the plant tissue to quickly stop insect feeding.
- Rainfast within hours of application, with no unsightly residue and very little odor.
- A standard treatment for successful production of bedding plants and woody ornamentals in nurseries, shade houses and outdoor field production.

## *Delivers a Precision Strike Against Aphids and Whiteflies*

Endeavor® insecticide inhibits feeding activity to control aphids and whiteflies.

- Translaminar and systemic movement provide complete protection that is rainfast after application.
- Compatibility with beneficial insects makes Endeavor an excellent choice for ICM programs.
- Long-lasting control (14-21 days) of aphids on woody plant material.
- Unique mode of action inhibits feeding activity, making it a good tool for resistance management for whiteflies.



## *Fast-Acting Control Across a Broad Range of Foliar and Soil-Dwelling Insect Pests*

Flagship® insecticide offers contact and systemic control of destructive insect pests in ornamental crops.

- Quickly absorbed into the plant, moving systemically to provide long-lasting protection from problem pests like root weevils, leaf beetles, soft scales, aphids, whiteflies and thrips.
- Fast knockdown, controlling pests on contact as well as through ingestion, with minimal effects on beneficial insects.
- Flexibility to apply as a drench or foliar spray.



## *Non-Neonicotinoid Alternative for Systemic Control of Ornamental Pests*

Mainspring® GNL insecticide shields nursery crops from chewing and sucking insect pests.

- Provides strong preventive control of a broad range of nursery insect pests including whiteflies, leaf-feeding beetles, caterpillars, aphids, lace bugs, soft scales and thrips.
- Systemic activity provides extended protection to save time and labor on repeated applications.
- Quickly stops insects from feeding to reduce disease transmission and limit plant damage.
- Four-hour REI causes minimal disruption to work schedules.



## *Long-Term Protection Without the Long Wait*

Scimitar® GC insecticide provides fast, broad-spectrum pest control at low use rates.

- Micro-encapsulated suspension formulation holds up outdoors to provide long residual, reducing the need for repeated applications.
- Rapid knockdown of key nursery pests like aphids, caterpillars, sawflies and leaf-feeding beetles.
- Low use rates and extended residual make it a superior insecticide for outdoor use.



# CONTROLLING KEY PESTS

The appearance of nursery pests can vary depending upon your location or region, type of crops being grown and local environmental conditions. The following program shows typical pests nursery growers may encounter during certain times of the year, Syngenta control options, recommended rates and application intervals. The products may be used in a rotation to protect crops from these damaging pests.

Application Timing*	Product Use Rate (per 100 gal.)	Target Pests
Early Spring	Endeavor 5 oz.	Aphids
	Mainspring GNL 4-8 fl. oz.	Aphids, Thrips, Leaf-feeding beetles, Soft scales
	Scimitar GC 5 oz.	Aphids, Thrips, Leaf-feeding beetles, Soft scales
Spring (through early June)	Avid 8 fl. oz.	Mite egg hatch, Aphids, Thrips, Leafminers, Whiteflies
	Endeavor 5 oz.	Aphids, Whiteflies
	Mainspring GNL 4-8 fl. oz.	Aphids, Leaf-feeding beetles & caterpillars, Lace bugs, Soft scales, Thrips, Whiteflies
Early Summer (through mid-July)	Mainspring GNL 4-8 fl. oz.	Aphids, Leaf-feeding beetles & caterpillars, Lace bugs, Soft scales, Thrips, Whiteflies
	Flagship 25WG 6-8 oz. or *Scimitar 5 fl. oz.	Aphids, Thrips, Leaf-feeding beetles, Lace bugs, Whiteflies, *Caterpillars
	Avid 8 fl. oz.	Two-spotted spider mites, Tarsonemid mites, Aphids, Thrips, Leafminers, Whiteflies
Late Summer	Mainspring GNL 4-8 fl. oz.	Aphids, Leaf-feeding beetles & caterpillars, Lace bugs, Soft scales, Thrips, Whiteflies
	Scimitar 5 fl. oz.	Aphids, Leaf-feeding beetles & caterpillars, Lace bugs, Thrips, Whiteflies, Spider mites, Broad mites
	Avid 8 fl. oz.	Aphids, Thrips, Mites (prevent over-wintering)
Mid-Sept./Early Fall	Avid 8 fl. oz.	Aphids, Thrips, Mites (prevent over-wintering)

\*Application timing estimates are approximate. Geographic and/or weather conditions may make it necessary to adjust the timing of applications.

Target Pest	Syngenta Product Solutions
Aphids	Mainspring GNL, Endeavor, Flagship, Scimitar, Avid
Leaf-feeding beetles	Mainspring GNL, Flagship, Scimitar
Leaf-feeding caterpillars	Mainspring GNL, Scimitar
Lace bugs	Mainspring GNL, Scimitar
Leafminers	Mainspring GNL, Avid, Flagship
Mites (Two-spotted, Eriophyid, Tarsonemid)	Avid, Scimitar
Soft scales	Mainspring GNL, Flagship, Scimitar
Thrips	Mainspring GNL, Avid, Flagship, Scimitar
Whiteflies	Mainspring GNL, Avid, Flagship, Endeavor, Scimitar

# PRODUCING BEAUTIFUL PLANTS

This compilation of powerful products is designed to offer nursery growers efficient, cost-effective protection throughout production and ensure plants grow to be the highest quality.

Insecticides			
	Mode of Action Group	Active Ingredient	REI (hours)
Avid	6	Abamectin	12
Endeavor	9B	Pymetrozine	12
Flagship	4A	Thiamethoxam	12
Mainspring GNL	28	Cyantraniliprole	4
Scimitar GC	3A	Lambda-Cyhalothrin	24

Fungicides			
	Mode of Action Group	Active Ingredient	REI (hours)
Banner Maxx II	3	Propiconazole	12
Concert II	3 and M5	Propiconazole + Chlorothalonil	12
Daconil	M5	Chlorothalonil	12
Medallion WDG	12	Fludioxonil	12
Micora	40	Mandipropamid	4
Mural	7 and 11	Solatenol® + Azoxystrobin	12
Palladium	9 and 12	Fludioxonil + Cyprodinil	12
Segovis	U15	Oxathiapiprolin	4
Subdue Maxx Subdue GR	4	Mefenoxam	0*/48**

Herbicides			
	Mode of Action Group	Active Ingredient	REI (hours)
Barricade	3	Prodiamine	12
Fusilade II	1	Fluazifop-P-butyl	12
Pennant Magnum	15	S-Metolachlor	24
Princep Liquid	5	Simazine	12
Reward	22	Diquat dibromide	24

\*Exception: when drenching or soil incorporated, see label. \*\*When applying by foliar spray.



For more information about the Syngenta Plant Protection nursery portfolio,  
please visit [GreenCastOnline.com/Ornamentals](https://www.GreenCastOnline.com/Ornamentals)



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