As a leader in greenhouse and nursery crop protection, we balance innovation and improvement in efficiency, safety and simplicity to bring you a focused product portfolio that saves time and delivers results.

Nufarm.com/USTURF
# DISEASE SOLUTION CHART

## PROVEN DEFENSE FOR GREENHOUSE & NURSERY

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>SYMPTOM</th>
<th><strong>26/36</strong></th>
<th>33EG</th>
<th>336E</th>
<th>336F</th>
<th>ACTINOVATE</th>
<th>ADOR®</th>
<th>AFFIRM™*</th>
<th>CPX™</th>
<th>SPRAY®</th>
<th>PROTECT™</th>
<th>SPECTRO®</th>
<th>STRIDER™</th>
<th>TORQUE™</th>
<th>TOUREN™*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alternaria</strong></td>
<td>flower/leaf blight/spots</td>
<td>★★★★☆☆☆☆</td>
<td>★★★</td>
<td>★★</td>
<td>★☆</td>
<td>★★★☆☆☆☆☆☆</td>
<td>N/A</td>
<td>★★★☆☆☆☆☆☆</td>
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<td>★★★☆☆☆☆☆☆</td>
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<tr>
<td><strong>Anthracnose</strong></td>
<td>large leaf spots</td>
<td>★★★★☆☆☆☆</td>
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<td>★☆</td>
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<td>N/A</td>
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<td><strong>Ascochyta Blights</strong></td>
<td>brown spots with light edges</td>
<td>★★★★☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td><strong>Bacteria</strong></td>
<td>yellow rings with brown centers</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★☆☆☆☆☆☆</td>
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<td><strong>Bacterium Blight</strong></td>
<td>Xanthomonas campestris</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td><strong>Botrytis</strong></td>
<td>leaf wilt and death</td>
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<td>★★★</td>
<td>★☆</td>
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<td><strong>Cercospora</strong></td>
<td>leaf spot/blight</td>
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<td>★☆</td>
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<td><strong>Curvularia</strong></td>
<td>light brown to dark brown irregular lesions</td>
<td>★★★★☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
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<tr>
<td><strong>Cylindrocladium</strong></td>
<td>root rots, crown and lower stem blights and leaf spots</td>
<td>★★★★☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
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<td><strong>Downy Mildew</strong></td>
<td>grey fuzz on leaves or stems</td>
<td>N/A</td>
<td>N/A</td>
<td>★☆</td>
<td>☆☆</td>
<td>★☆☆☆☆☆☆☆☆☆</td>
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<tr>
<td><strong>Drechslera</strong></td>
<td>similar to Helminthosporium</td>
<td>★★★★☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
<td>N/A</td>
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<td><strong>Fusarium</strong></td>
<td>wilting and stem rot</td>
<td>★★★☆☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
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<td><strong>Helminthosporium</strong></td>
<td>Leaf Spot</td>
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<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
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<td><strong>Leaf Spot/Blight</strong></td>
<td>brown/black leaf spots</td>
<td>★★★★☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
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<td>N/A</td>
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<td><strong>Phytophthora</strong></td>
<td>root and stem rots</td>
<td>N/A</td>
<td>N/A</td>
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<td>☆☆</td>
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<tr>
<td><strong>Powdery Mildew</strong></td>
<td>fluffy mildew</td>
<td>☆☆☆☆☆☆☆☆☆</td>
<td>☆☆</td>
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<td><strong>Pythium</strong></td>
<td>wilting/declining plants, black roots</td>
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<td>N/A</td>
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<td>☆☆</td>
<td>★☆☆☆☆☆☆☆☆☆</td>
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<tr>
<td><strong>Rhizoctonia Leaf</strong></td>
<td>circles with yellow/orange edges</td>
<td>★★☆☆☆☆☆☆☆</td>
<td>★★</td>
<td>★☆</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★☆☆☆☆☆☆</td>
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<tr>
<td><strong>Rhizoctonia Root/Crown</strong></td>
<td>wilting and yellow crowns</td>
<td>★☆☆☆☆☆☆☆☆</td>
<td>★☆</td>
<td>★☆</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★☆☆☆☆☆☆</td>
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<tr>
<td><strong>Rusts</strong></td>
<td>brown rough areas</td>
<td>★★★★☆☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★☆☆☆☆☆☆</td>
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<tr>
<td><strong>Thielaviopsis</strong></td>
<td>black root rot</td>
<td>★★★★☆☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td><strong>Scabs</strong></td>
<td>Fusicladium, Venturia</td>
<td>★★★★☆☆☆☆☆</td>
<td>★★★</td>
<td>★☆</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★☆☆☆☆☆☆</td>
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</tbody>
</table>

- ★★★★★ EXCELLENT  ★★★★ VERY GOOD  ★★★ GOOD  ★★ FAIR  N/A NOT APPLICABLE

1. CLEARY CHEMICAL, LLC IS A WHOLLY OWNED SUBSIDIARY OF NUFARM.
2. * ONLY LABELED FOR USE IN OUTDOOR NURSERIES AND LANDSCAPE ORNAMENTAL PLANTS
3. ** EXCEPT KNOCK OUT ROSE

nufarm.com/usturf
This guide is intended to provide a product overview. See product labels for complete details and labeled use listing.

14-GHN-0015-E
**26/36® FUNGICIDE**

Incorporating 26/36® Fungicide into an integrated disease management program provides effective control of key ornamental diseases.

**KEY USES**

Ornamentals

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**KEY DISEASES CONTROLLED**

Botrytis, Cercospora, Thielaviopsis  
(see label for complete list)

**RATE / 1 GAL**  2 – 4 tsp  
**RATE / 100 GAL**  33 – 84 fl oz (spray)  
13.3 fl oz (drench)  
33 – 66 fl oz (dip)  
(see label for specific rates)

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**3336® DG LITE**

3336® DG Lite is formulated with patented granular dispersing technology making it an excellent choice for soil media applications to control a wide range of diseases.

**KEY USES**

Annual and perennial flowers, bedding plants, deciduous and evergreen trees and shrubs, foliage plants, groundcovers

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**KEY DISEASES CONTROLLED**

Botrytis, Rhizoctonia, Thielaviopsis  
(see label for complete list)

**RATE / 1000 SQ FT**  22 – 30 lb  
(see label for specific rates)

---

**3336® EG**

3336® EG is a broad-spectrum systemic fungicide which controls a variety of foliar, stem and root diseases on a wide range of commercially important plants. 3336 EG is also effective as a pre-plant dip on cuttings and bulbs.

**KEY USES**

Annual and perennial flowers, bedding plants, deciduous and evergreen trees and shrubs, foliage plants, greenhouse, groundcovers, shadehouses

---

**KEY DISEASES CONTROLLED**

Anthracnose, black spot of rose, Botrytis, Cercospora, Fusarium, Fusicladium, leaf spots and blights, powdery mildews, Rhizoctonia, rust diseases, Thielaviopsis, Venturia leaf scabs  
(see label for complete list)

**RATE / 100 GAL**  8 – 24 fl oz (spray)  
8 – 16 fl oz (drench)  
16 – 24 fl oz (dip)  
(see label for specific rates)

---

**3336® F**

3336® F is a water-based broad-spectrum systemic fungicide with preventive and curative properties. Its unique formulation is compatible with drench or spray applications over a wide range of ornamental settings.

**KEY USES**

Annual and perennial flowers, bedding plants, deciduous and evergreen trees and shrubs, foliage plants, groundcovers

---

**KEY DISEASES CONTROLLED**

Botrytis, Cercospora, powdery mildew, Rhizoctonia, Thielaviopsis  
(see label for complete list)

**RATE / 1 GAL**  0.5 – 1.5 tsp  
**RATE / 100 GAL**  8 – 24 fl oz (spray)  
8 – 16 fl oz (drench)  
16 – 24 fl oz (dip)  
(see label for specific rates)
**Adorn® Fungicide**

**Actinovate® SP**

Actinovate® SP Biological Fungicide suppresses and controls root rot and foliar fungal pathogens including powdery and downy mildew, Botrytis, Sclerotinia and Alternaria. When used as a soil drench, it also suppresses and controls soil-borne fungi including Fusarium, Rhizoctonia, Pythium, Phytophthora, Sclerotinia and Verticillium.

**KEY USES**
Bedding and foliage plants, ornamentals, shrubs

**Adorn®**

With a novel mode of action, Adorn® is an excellent addition to fungicidal rotations and plays a key role in resistance management programs to defeat downy mildew, Phytophthora and Pythium.

**KEY USES**
Bedding and foliage plants, groundcovers, ornamentals, shrubs

**Affirm® WDG**

Affirm® WDG is a concentrated, easy-to-mix water-dispersible granule formulation that delivers excellent disease control.

**KEY USES**
Edibles, ornamentals

**Agri-Mycin® 50**

For years, Agri-Mycin® 50 has been the industry standard bactericide. It provides effective, economical control for three to four days. Its specific MOA is unique to streptomycin and is an essential part of any bacterial disease control program.

**KEY USES**
Apples, pears, potatoes (seed pieces), tobacco, ornamental plants and shrubs Seedling only: celery, peppers, tomatoes

**CuPROXAT® FL Copper Fungicide**

CuProxat® FL premium tri-basic copper fungicide is engineered with uniform particles which deliver better plant coverage and protection against fungal and bacterial diseases.

**KEY USES**
Greenhouse, ornamentals, shade crops

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**KEY DISEASES CONTROLLED**

**CuProxat® FL Copper Fungicide**

- Downy mildew, leaf spots and rusts, powdery mildew, Phytophthora and Pythium spp., Rhizoctonia spp. (see label for complete list)

**RATE / 100 GAL**

- 1 tsp (drench)
- 4 – 6 oz (drench)

(see label for specific rates)

**EPA REG. NO.**

73314-1

**ACTIVE INGR.**

Streptomycyes lydicus WYEC (0.0371%)

**FORMULATION**

soluble powder

**CHEM. FAMILY**

glucopyranosyl antibiotic

**FRAC NO.**

25

**REI**

1 hour*

**PACKAGE SIZE**

18 oz bag (12/case)

**APPLICATION**

spray, drench, dip

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**Affirm™ WDG**

Affirm™ WDG is a concentrated, easy-to-mix water-dispersible granule formulation that delivers excellent disease control.

**KEY USES**
Edibles, ornamentals

**KEY DISEASES CONTROLLED**

- Botrytis, powdery mildew, Rhizoctania (see label for complete list)

**RATE / 100 GAL**

- Consult label

(see label for complete list)

**EPA REG. NO.**

59639-141

**ACTIVE INGR.**

fluopicolide (39.5%)

**FORMULATION**

flowable

**CHEM. FAMILY**

benzamides

**FRAC NO.**

43

**REI**

12 hours

**PACKAGE SIZE**

1 qt bottle (12/case)

**APPLICATION**

spray, drench

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**Actinovate® SP Biological Fungicide**

- Downy mildew, leaf spots and rusts, powdery mildew, Phytophthora and Pythium spp., Rhizoctonia spp. (see label for complete list)

**RATE / 2 GAL**

- 1 tsp (drench)

**RATE / 100 GAL**

- 6 – 12 oz (spray)
- 4 – 6 oz (drench)

(see label for specific rates)

**EPA REG. NO.**

73314-1

**ACTIVE INGR.**

Streptomycyes lydicus WYEC (0.0371%)

**FORMULATION**

soluble powder

**CHEM. FAMILY**

glucopyranosyl antibiotic

**FRAC NO.**

25

**REI**

1 hour*

**PACKAGE SIZE**

18 oz bag (12/case)

**APPLICATION**

spray, drench, dip

---

**Agri-Mycin® 50**

**EPA REG. NO.**

68173-3-1001

**ACTIVE INGR.**

polyoxin D zinc salt (11.3%)

**FORMULATION**

water-dispersible granules

**CHEM. FAMILY**

polyoxins

**FRAC NO.**

19

**REI**

4 hours

**PACKAGE SIZE**

2.4 lb package (3/case)

**APPLICATION**

spray, drench

---

**CuProxat® FL Copper Fungicide**

**EPA REG. NO.**

55146-98

**ACTIVE INGR.**

streptomycin sulfate (65.8%) (equivalent to 50% streptomycin base)

**FORMULATION**

wettable powder

**CHEM. FAMILY**

glucopyranosyl antibiotic

**FRAC NO.**

25

**REI**

12 hours

**PACKAGE SIZE**

3 lb bag

**APPLICATION**

spray, dip

---

**CuproXAT® FL Copper Fungicide**

CuproXAT® FL Copper Fungicide is engineered with uniform particles which deliver better plant coverage and protection against fungal and bacterial diseases.

**KEY USES**
Greenhouse, ornamentals, shade crops

**Cuproxat® FL Copper Fungicide**

**EPA REG. NO.**

55146-151

**ACTIVE INGR.**

basic copper sulfate (27.1%)

**FORMULATION**

flowable

**CHEM. FAMILY**

inorganic

**FRAC NO.**

M1

**REI**

24 hours (greenhouse), 48 hours

**PACKAGE SIZE**

1 qt bottle (12/case)

**APPLICATION**

spray
**PHOSTROL® AGRICULTURAL FUNGICIDE**

A systemic fungicide, Phostrol® provides effective control of various plant diseases.

**KEY USES**

Annual and perennial flowers, bedding plants, deciduous and evergreen trees and shrubs, foliage plants, groundcovers, vegetable transplants

---

**Protect™ DF**

**PROTECT™ DF**

Protect™ DF provides excellent control of a variety of important plant diseases.

**KEY USES**

Field, greenhouse, groundcovers and herbaceous plants, nursery, ornamental and shade trees

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**Spectro® 90 WDG**

**SPECTRO® 90 WDG**

Spectro® 90 WDG combines two broad-spectrum fungicides to deliver contact and systemic disease protection. Spectro 90 WDG prevents and controls disease in annual and perennial flowers, as well as bedding plants, groundcovers and trees and shrubs.

**KEY USES**

110+ ornamentals including annual and perennial flowers, bedding plants, deciduous and evergreen trees and shrubs, foliage plants, groundcovers

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**Spirato® GHN**

**SPIRATO® GHN**

Through all stages of production, Spirato® GHN is a go-to for foliar, stem and root diseases providing control with low use rates and an easy-to-use liquid formulation. This versatile fungicide demands the number one spot in disease management rotation.

**KEY USES**

45+ ornamentals including African violet, aster, azalea, begonia, pansy, petunia, poinselitia, brassica leafy vegetables, leafy vegetables, herbs

---

**Strider™**

**STRIDER™ FUNGICIDE**

Strider™ is a high-quality fungicide formulation with both preventive and curative modes of action.

**KEY USES**

Nursery and outdoor ornamentals

---

### Phostrol® AGRICULTURAL FUNGICIDE

**EPA REG. NO.** 55146-83  
**ACTIVE INGR.** mono- and dibasic sodium, potassium and ammonium phosphites (53.6%)  
**FORMULATION** liquid  
**CHEM. FAMILY** phosphite  
**FRAC NO.** 33  
**REI** 4 hours  
**PACKAGE SIZE** 2.5 gal (2/case), 250 gal  
**APPLICATION** spray, drench

---

### Protect™ DF

**EPA REG. NO.** 1001-77  
**ACTIVE INGR.** mancozeb (75%)  
**FORMULATION** dry flowable  
**CHEM. FAMILY** dithiocarbamate  
**FRAC NO.** M3  
**REI** 24 hours  
**PACKAGE SIZE** 6 lb (6/case)  
**APPLICATION** spray

---

### Spectro® 90 WDG

**EPA REG. NO.** 1001-72  
**ACTIVE INGR.** chlorothalonil (72%), thiophanate-methyl (18%)  
**FORMULATION** water-dispersible granules  
**CHEM. FAMILY** chloronitriles, thiophanates  
**FRAC NO.** 1 & M5  
**REI** 12 hours  
**PACKAGE SIZE** 5 lb (4/case)  
**APPLICATION** spray

---

### Spirato® GHN

**EPA REG. NO.** 228-723  
**ACTIVE INGR.** fludioxonil (40.3%)  
**FORMULATION** liquid  
**CHEM. FAMILY** phenylpyrrole  
**FRAC NO.** 12  
**REI** 12 hours  
**PACKAGE SIZE** 1 pt (8/case)  
**APPLICATION** spray, drench

---

### Strider™

**EPA REG. NO.** 228-623  
**ACTIVE INGR.** fludioxonil (40.3%)  
**FORMULATION** liquid  
**CHEM. FAMILY** triazole  
**FRAC NO.** 3  
**REI** 24 hours  
**PACKAGE SIZE** 2.5 gal (2/case)  
**APPLICATION** spray
### Torque

**TORQUE™** provides long-lasting curative and preventive control against tough ornamental diseases such as scabs, phomopsis, mildews and rusts. Plus, its easy-to-use, water-based liquid suspension formula prevents settling after mixing.

**KEY USES**
Disease control in field, nursery and container ornamentals

**KEY DISEASES CONTROLLED**
Anthracnose, black spot, leaf spots, petal blight, powdery mildew, rust, scab, southern blight
(see label for complete list)

**RATE / 100 GAL**
4 – 10 fl oz
(see label for specific rates)

**EPA REG. NO.** 1001-87

**ACTIVE INGR.** tebuconazole (38.7%)

**FORMULATION** liquid suspension

**CHEM. FAMILY** triazole

**FRAC NO.** 3

**REI** 12 hours

**PACKAGE SIZE** 1 gal (5/case)

**APPLICATION** spray

---

### Tourney® Fungicide

**TOURNEY® FUNGICIDE**
Tourney® controls a broad-spectrum of tough diseases affecting outdoor woody ornamental plants in nursery and landscape settings.

**KEY USES**
Nursery and outdoor ornamentals

**KEY DISEASES CONTROLLED**
Anthracnose, apple scab, leaf spots, powdery mildew, Rhizoctonia, rusts
(see label for complete list)

**RATE / 100 GAL**
1 – 4 oz
(see label for specific rates)

**EPA REG. NO.** 59639-144

**ACTIVE INGR.** metconazole (50%)

**FORMULATION** water-dispersible granule

**CHEM. FAMILY** triazole

**FRAC NO.** 3

**REI** 12 hours

**PACKAGE SIZE** 5 lb (4/case)

**APPLICATION** spray, drench

---

**NOTES**

---
<table>
<thead>
<tr>
<th><strong>RiteWay®</strong></th>
<th><strong>Fascination®</strong></th>
<th><strong>Sumagic®</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KEY PERFORMANCE BENEFITS</strong></td>
<td>Increases lateral or basal branching, promotes flowering and reduces overall plant height (see label for complete list)</td>
<td>Enhances floral density and foliage color, improves stress tolerance, increases plant shelf life (see label for complete list)</td>
</tr>
<tr>
<td><strong>RATE / 1 GAL</strong></td>
<td>0.3 – 19.4 oz (50 – 3000 ppm)</td>
<td>Consult label</td>
</tr>
</tbody>
</table>

**FASCINATION® PGR**
Fascination® is an effective tool for more presentable, more marketable Easter and LA hybrid lilies, poinsettias and other ornamentals.

**KEY USES**
Greenhouse ornamentals including lilies

**RITEWAY®**
RiteWay® increases lateral branching and promotes flowering to help improve crop marketability. RiteWay contains 1.9 percent 6-BA and is easy to mix and apply.

**KEY USES**
Christmas cactus, echinacea, hosta

**SUMAGIC® PGR**
Consistent and reliable, Sumagic® delivers more marketable, attractive and compact ornamentals with an increased shelf life.

**KEY USES**
Greenhouse

**NOTES**
### INSECTICIDE SOLUTION CHART

**PROVEN DEFENSE FOR GREENHOUSE & NURSERY**

<table>
<thead>
<tr>
<th>INSECT MATRIX</th>
<th>CHLORPYRIFOS SPC4</th>
<th>DIPEL® PRO DF</th>
<th>DISTANCE® IGR</th>
<th>GNATROL® WDG</th>
<th>MALLEP® 0.5 G</th>
<th>MALLEP® 2E T&amp;O</th>
<th>MINX™ 2</th>
<th>OVERTURE®</th>
<th>SAFARI®</th>
<th>TAME®</th>
<th>TETRASAN®</th>
<th>TRISTAR®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MODE OF ACTION</strong></td>
<td>1B</td>
<td>11A</td>
<td>7C</td>
<td>11A</td>
<td>4A</td>
<td>4A</td>
<td>6</td>
<td>UN</td>
<td>4A</td>
<td>3</td>
<td>10B</td>
<td>4A</td>
</tr>
<tr>
<td>Adelgids</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
</tr>
<tr>
<td>Ants (imported red fire ants)</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Aphid</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Bagworms</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>**</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Beetles</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>★★★</td>
<td>N/A</td>
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<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
</tr>
<tr>
<td>Borers</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Fungus gnat</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
</tr>
<tr>
<td>Lacebugs</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
</tr>
<tr>
<td>Leafhopper</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
</tr>
<tr>
<td>Leafminer</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Lepidopterous worms (caterpillars)</td>
<td>★★★</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
</tr>
<tr>
<td>Mealybug</td>
<td>N/A</td>
<td>N/A</td>
<td>★</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
</tr>
<tr>
<td>Psyllids</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
</tr>
<tr>
<td>Scale, armored</td>
<td>★</td>
<td>N/A</td>
<td>★</td>
<td>N/A</td>
<td>★</td>
<td>★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
</tr>
<tr>
<td>Scale, soft</td>
<td>★</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>★</td>
<td>★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
</tr>
<tr>
<td>Shore fly</td>
<td>N/A</td>
<td>N/A</td>
<td>★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Spider mite</td>
<td>★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
</tr>
<tr>
<td>Tarsonemid mite</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Thrip</td>
<td>★</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
<tr>
<td>Whitefly</td>
<td>★★★</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>★★★★</td>
<td>★★★★</td>
<td>N/A</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
<td>★★★★</td>
<td>N/A</td>
</tr>
</tbody>
</table>

★ ★★★★ EXCELLENT ★★★★ VERY GOOD ★★★ GOOD ★★ FAIR N/A NOT APPLICABLE

*NOT LISTED FOR NURSERY*
### DiPel® PRO DF BIOLOGICAL INSECTICIDE

**Widely used, DiPel® PRO DF delivers outstanding worm control while being friendly to workers, the environment and beneficial insects.**

**KEY USES**
- Landscape, ornamentals

<table>
<thead>
<tr>
<th><strong>EPA REG. NO.</strong></th>
<th>73049-39</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACTIVE INGR.</strong></td>
<td><em>Bacillus thuringiensis</em> (54%)</td>
</tr>
<tr>
<td><strong>FORMULATION</strong></td>
<td>dry flowable</td>
</tr>
<tr>
<td><strong>CHEM. FAMILY</strong></td>
<td>bacillus</td>
</tr>
<tr>
<td><strong>FRAC NO.</strong></td>
<td>11A</td>
</tr>
<tr>
<td><strong>REI</strong></td>
<td>4 hours</td>
</tr>
<tr>
<td><strong>PACKAGE SIZE</strong></td>
<td>1 lb case (30/case)</td>
</tr>
<tr>
<td><strong>APPLICATION</strong></td>
<td>spray</td>
</tr>
</tbody>
</table>

**KEY PESTS CONTROLLED**
- Lepidopterous worms: armyworms, loopers, tent caterpillars, tobacco budworms, various bagworms and many other worms (see label for complete list)
- Rate: 0.25 – 2 lb (see label for specific rates)

### Distance INSECT GROWTH REGULATOR

**DISTANCE® IGR**
- Distance® IGR breaks the life cycle of whiteflies, fungus gnats and other insects, providing growers with a resistance management tool that effectively controls harmful insects.

**KEY USES**
- Greenhouse and outdoor ornamentals, groundcovers, non-bearing fruit trees, shrubs and ornamental trees

<table>
<thead>
<tr>
<th><strong>EPA REG. NO.</strong></th>
<th>59639-96</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACTIVE INGR.</strong></td>
<td>pyriproxifen (11.23%)</td>
</tr>
<tr>
<td><strong>FORMULATION</strong></td>
<td>emulsifiable concentrate</td>
</tr>
<tr>
<td><strong>CHEM. FAMILY</strong></td>
<td>pyriproxyfen</td>
</tr>
<tr>
<td><strong>FRAC NO.</strong></td>
<td>11A</td>
</tr>
<tr>
<td><strong>REI</strong></td>
<td>12 hours</td>
</tr>
<tr>
<td><strong>PACKAGE SIZE</strong></td>
<td>16 lb pail</td>
</tr>
<tr>
<td><strong>APPLICATION</strong></td>
<td>spray, drench, sprench</td>
</tr>
</tbody>
</table>

**KEY PESTS CONTROLLED**
- Fungus gnats, leafminers, scales, shore flies, whiteflies (see label for complete list)
- Rate: 6 – 12 fl oz (spray) 2 – 6 fl oz (drench) (see label for specific rates)

### Gnatrol® WDG BIOLOGICAL LARVICIDE

**Gnatrol® WDG**
- Gnatrol® offers highly selective, effective control of fungus gnat larvae, especially for those growers concerned with worker safety, the environment and resistance management.

**KEY USES**
- Edibles, ornamentals, nursery, vegetable plants

<table>
<thead>
<tr>
<th><strong>EPA REG. NO.</strong></th>
<th>73049-56</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACTIVE INGR.</strong></td>
<td><em>Bacillus thuringiensis</em> (37.4%)</td>
</tr>
<tr>
<td><strong>FORMULATION</strong></td>
<td>water-dispersible granule</td>
</tr>
<tr>
<td><strong>CHEM. FAMILY</strong></td>
<td>bacillus</td>
</tr>
<tr>
<td><strong>FRAC NO.</strong></td>
<td>11A</td>
</tr>
<tr>
<td><strong>REI</strong></td>
<td>4 hours</td>
</tr>
<tr>
<td><strong>PACKAGE SIZE</strong></td>
<td>1 qt tip-n-pour (4/case)</td>
</tr>
<tr>
<td><strong>APPLICATION</strong></td>
<td>chemigation, drench, drip</td>
</tr>
</tbody>
</table>

**KEY PESTS CONTROLLED**
- Fungus gnats, leafminers, scales, shore flies, whiteflies (see label for complete list)
- Rate: 3.2 – 6.4 oz (drench) 13 – 26 oz (heavy infestation) (see label for specific rates)

### Mallet® 0.5 G

**Mallet® 0.5 G**
- Mallet® 0.5 G protects grassy nursery areas and ornamental crops with systemic activity, providing long-lasting grub and insect control with preventive and curative properties.

**KEY USES**
- Greenhouse and nursery

<table>
<thead>
<tr>
<th><strong>EPA REG. NO.</strong></th>
<th>228-501</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IRAC NO.</strong></td>
<td>4A</td>
</tr>
<tr>
<td><strong>ACTIVE INGR.</strong></td>
<td>imidacloprid (0.5%)</td>
</tr>
<tr>
<td><strong>FORMULATION</strong></td>
<td>granular</td>
</tr>
<tr>
<td><strong>CHEM. FAMILY</strong></td>
<td>neonicotinoid</td>
</tr>
<tr>
<td><strong>SIGNAL WORD</strong></td>
<td>caution</td>
</tr>
<tr>
<td><strong>PACKAGE SIZE</strong></td>
<td>30 lb bag</td>
</tr>
</tbody>
</table>

**KEY PESTS CONTROLLED**
- Aphids, leafhoppers, leafminers, mealybugs, psyllids, root weevil complex, scales, whiteflies, white grub larvae (see label for complete list)
- Rate: Consult label
**KEY PESTS CONTROLLED**

Overture ® 35 WP INSECTICIDE

Due to its novel chemistry, Overture ® provides outstanding control of immature adult thrips, even those that are considered tolerant or resistant to other insecticides. Plus, Overture is soft on beneficial insects.

**KEY USES**

Enclosed commercial greenhouses

---

**Minx™ 2**

Minx™ 2 delivers broad-spectrum mite and leafminer control in a new low VOC (volatile organic compound) water-based formula.

**KEY USES**

Greenhouse and nursery ornamentals

---

**Overture ® 35 WP INSECTICIDE**

Due to its novel chemistry, Overture ® provides outstanding control of immature adult thrips, even those that are considered tolerant or resistant to other insecticides. Plus, Overture is soft on beneficial insects.

**KEY USES**

Enclosed commercial greenhouses

---

**SAFARI ® 20 SG INSECTICIDE**

Safari ® 20 SG is the market-leading drench/spray insecticide for good reason; performance. It controls a broad-spectrum of ornamental pests faster and longer than any comparable insecticide.

**KEY USES**

Greenhouse, ornamentals, nursery

---

**Tame® 2.4 EC SPRAY INSECTICIDE-MITICIDE**

Tame® delivers broad-spectrum knockdown of numerous insect/mite pest problems and is an excellent tank-mix partner.

**KEY USES**

Commercial lathhouses, greenhouses, outdoor ornamentals, shadehouses

---

**Mallet® 2F T&O**

Mallet® 2F T&O is the economical standard for soil-based insect control programs. Use on indoor and outdoor ornamentals (includes greenhouse and interior plantscapes) for long-residual, upward systemic control of piercing and sucking pests.

**KEY USES**

Greenhouse and nursery

---

**SAFARI ® 20 SG INSECTICIDE**

Safari ® 20 SG is the market-leading drench/spray insecticide for good reason; performance. It controls a broad-spectrum of ornamental pests faster and longer than any comparable insecticide.

**KEY USES**

Greenhouse, ornamentals, nursery

---

**Tame® 2.4 EC SPRAY INSECTICIDE-MITICIDE**

Tame® delivers broad-spectrum knockdown of numerous insect/mite pest problems and is an excellent tank-mix partner.

**KEY USES**

Commercial lathhouses, greenhouses, outdoor ornamentals, shadehouses

---

Tame® is an EPA Restricted-Use Pesticide. Always read and follow label directions.
**TETRASAN® 5 WDG MITICIDE**

With excellent translaminar movement and outstanding residual activity, TetraSan® affects spider mites at all life stages without harming most beneficial insects.

**KEY USES**
Greenhouse, landscape, nursery

**TETRASAN® 5 WDG MITICIDE**

**KEY PESTS CONTROLLED**
Spider mites (see label for complete list)

**RATE**
Consult label

---

**TRISTAR® 8.5 SL**

TriStar® 8.5 SL provides excellent control of a wide range of ornamental pests. Its contact, systemic and translaminar activity provides a fast-acting, low-odor foliar spray for indoor and outdoor ornamentals (includes greenhouse and interior plantscapes).

**KEY USES**
Ornamental and flowering plants grown outdoors and in greenhouses, shadehouses and lathouses

---

**KEY PESTS CONTROLLED**
Aphids, leafminers, mealybugs, scales, thrips, whiteflies (see label for complete list)

**RATE**
Consult label

---

**KEY PESTS CONTROLLED**
Spiders, mealybugs, scales, thrips, whiteflies

**RATE**
Consult label

---

**NOTES**
**Cheetah® Pro**

**CHEETAH® PRO**

Cheetah® Pro non-selective, post-emergence herbicide provides fast, effective control of the toughest broadleaf and grass weed challenges, including those resistant to glyphosate and multiple herbicide classes.

**KEY USES**

Around commercial structures, landscaped and mulched areas, ornamental trees and shrubs, pre-plant to ornamental plants, natural areas

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**Nufarm Diquat SPC 2L**

**NUFARM DIQUAT SPC 2L**

Nufarm Diquat SPC 2L herbicide provides non-selective control of aquatic weeds on contact. It spreads through the water for broad-spectrum control and is completely inactivated on contact with soil.

**KEY USES**

Greenhouse and nursery ornamentals

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**ProDeuce®**

**PRODEUCE®**

Eliminates existing weeds and prevents new growth in cracks and crevices, along fences and foundations and throughout gravel areas.

**KEY USES**

On cracks and crevices in driveways, sidewalks, walkways and patios, along fences, foundations, curbs, retaining walls and edges of lawns, around the base or in mulched beds of well-established (at least 6 months old) plants, shrubs or trees, on gravel areas

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**Razor®**

**RAZOR®**

Razor® is a water-soluble glyphosate formulation for broad-spectrum non-selective control of hard-to-kill weeds.

**KEY USES**

Non-selective weed control, post-emergent

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**KEY WEEDS CONTROLLED**

- Bladderwort, cattail, duckweed, frog’s bit, hydrilla, pennywort, water lettuce, watermilfoils (see label for complete list)

**RATE / 15 GAL**

16 – 32 fl oz (broadcast)

**RATE / 100 GAL**

32 – 64 fl oz (spot) (see label for specific rates)

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**KEY WEEDS CONTROLLED**

- Bermudagrass, cheat, chickweed, crabgrass, kochia, lambsquarters, mustard, pigweed, rye, shepherd’s-purse, spurge, thistle (see label for complete list)

**RATE / 1000 SQ FT**

3 – 5.75 oz (broadcast) (see label for specific rates)

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**KEY WEEDS CONTROLLED**

- Many annual and perennial weeds and woody brush (see label for complete list)

**RATE / 1 GAL**

0.67 – 13 fl oz

**RATE / 100 GAL**

64 – 320 fl oz (see label for specific rates)

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**EPA REG. NO.**

- 228-743
- 228-675
- 228-509
- 228-366

**ACTIVE INGR.**

- glufosinate ammonium (24.5%) (see label for specific rates)
- diquat dibromide (37.3%)
- glyphosate (40.15%), prodiamine (7.51%)
- glyphosate (41%)

**FORMULATION**

- soluble liquid
- liquid
- liquid
- liquid

**CHEM. FAMILY**

- phosphinic acid
- bipyridylium
- glycine, dinitroaniline
- glycine

**HRAC NO.**

- 22
- 10
- 9 & 3
- 9

**REI**

- 24 hours*
- 12 hours*
- 12 hours*
- 4 hours*

**PACKAGE SIZE**

- 0.5 gal squeeze-and-measure (4/case), 1 gal (4/case), 2.5 gal (2/case), 30 gal drum
- 1 gal (4/case), 2.5 gal (2/case)
- 64 oz squeeze-and-pour (8/case), 1 gal (4/case), 2.5 gal (2/case)
- 2.5 gal (2/case), 30 gal

**APPLICATION**

- spray
- spray
- spray
- spray

*Or until sprays have dried.
RAZOR BURN®
Razor Burn® non-selective post-emergence herbicide combines the fast contact activity of diquat with the systemic control of glyphosate in one high-performance liquid formulation.

KEY USES
Non-selective weed control, post-emergent

RAZOR® PRO
This premium formulation of glyphosate with proprietary surfactants delivers non-selective weed control in a broad range of settings.

KEY USES
Ornamental weed control

NOTES
# Key Weeds Controlled

### Envoy Plus® HERBICIDE

- **Bittercress, chickweed, common groundsel, liverwort, oxalis, Palmer amaranth, spiny amaranth, spurge** (see label for complete list)

### BroadStar™ HERBICIDE

- **Bittercress, chickweed, common groundsel, liverwort, oxalis, Palmer amaranth, spiny amaranth, spurge** (see label for complete list)

### SureGuard® SC HERBICIDE

- **Bittercress, chickweed, eclipta, field pennycress, Florida beggarweed, Florida pusley, groundsel, kochia, lambsquarters, mallow, morningglory, nightshade, Palmer amaranth, Pennsylvania smartweed, pigweed, prickly sida (leaweed), puncturevine, ragweed, redmaids, Russian thistle, shepherd’s purse, spiny amaranth, spurge, velvetleaf, waterhemp, yellow rocket**

### Nutrad Double O™ SPC

- **Chickweed, clover, dandelion, groundsel, lambsquarters, oxalis, pigweed, shepherd’s-purse, spurge (garden, hairy, prostate, spotted)** (see label for complete list)

### Pre-Emerge with Residual Control

### EPA REG. NO.

- 59639-132 (Envoy Plus®)
- 59639-128 (BroadStar™)
- 71368-114 (SureGuard® SC)

### ACTIVE INGR.

- Clethodim (12.6%) (Envoy Plus®)
- Flumioxazin (0.25%) (BroadStar™)
- Flumioxazin (SureGuard® SC)

### FORMULATION

- Liquid (Envoy Plus®)
- Granule (BroadStar™, SureGuard® SC)

### CHEM. FAMILY

- Cyclohexene oxime
- N-phenylphthalimide
- N-phenylphthalimide or dinitroaniline

### HRAC NO.

- 1 (Envoy Plus®)
- 14 (BroadStar™, SureGuard® SC)

### REI

- 24 hours (Envoy Plus®)
- 12 hours (BroadStar™)

### PACKAGE SIZE

- 1 gal (4/case) (Envoy Plus®)
- 50 lb bag (BroadStar™)
- 1 pt (8/case), 64 fl oz (4/case) (SureGuard® SC)

### APPLICATION

- Spray (Envoy Plus®)
- Broadcast (BroadStar™)
- Spray (SureGuard® SC)

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This guide is intended to provide a product overview. See product labels for complete details and labeled use listing.
SUREGUARD® SC AND MARENGO® LOOK SIMILAR ON PAPER, BUT THEY ARE TWO VERY DIFFERENT HERBICIDES.

Although SureGuard SC and Marengo are both effective pre-emerge herbicide solutions, they deliver different weed control results. It helps to understand the differences between these tools as they relate to your weed control needs. SureGuard SC outperforms Marengo when controlling annual winter weeds including bittercress and other mustards. SureGuard SC also provides post-emerge weed control, empowering you to take down existing weeds while stopping new weeds before they start.

SUREGUARD SC PERFORMANCE BENEFITS:
- Apply once: longest residual pre-emerge control, often 8 months or more
- Easy mix, apply and clean liquid formulation saves time
- Broad-spectrum control including tough-to-control weeds
- Wider application window: unlike the competition, SureGuard SC also controls post-emerge weeds up to 2” – if timing is off, emerged weeds are still controlled
- One product for many uses: container- and field-grown ornamentals and cracks and crevices

SUREGUARD SC VS. MARENGO PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>SUREGUARD SC</th>
<th>MARENGO</th>
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</thead>
<tbody>
<tr>
<td>PRE-EMERGE WEED CONTROL</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>POST-EMERGE WEED CONTROL</td>
<td>YES</td>
<td>NO (except a few very small weeds)</td>
</tr>
<tr>
<td>IMPROVES GLYPHOSATE SPECTRUM WHEN MIXED</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>IMPROVES GLYPHOSATE SPEED WHEN MIXED</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>ANNUAL GRASS CONTROL</td>
<td>GOOD</td>
<td>VERY GOOD</td>
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<tr>
<td>SUMMER BROADLEAF WEED CONTROL</td>
<td>VERY GOOD</td>
<td>VERY GOOD</td>
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<tr>
<td>WINTER ANNUAL WEED CONTROL</td>
<td>VERY GOOD</td>
<td>FAIR TO GOOD (weak on bittercress and other mustards)</td>
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<tr>
<td>ROOT PRUNING HERBICIDE</td>
<td>NO</td>
<td>YES</td>
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<tr>
<td>COOL-SEASON TURFGRASS TOLERANCE (SPRAY APPLICATION)</td>
<td>FAIR TO GOOD</td>
<td>NO</td>
</tr>
<tr>
<td>WARM-SEASON TURFGRASS TOLERANCE (SPRAY APPLICATION)</td>
<td>DORMANT ONLY</td>
<td>YES</td>
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</table>
More than 100 years ago, our history began with a goal to help New Zealand’s farmers. From New Zealand, we have grown to serve more than 100 countries worldwide.

Today, our founders’ passion to help growers through quality solutions and unparalleled customer service remains at the heart of everything we do.

100 YEARS AND STILL GROWING