Greenhouse & Nursery Product Guide

Nufarm is dedicated to promoting healthy growth for your plants and your business. Our insecticide, herbicide, fungicide and plant growth regulator solutions deliver results that help ensure your success.
Protect your crops from diseases with Nufarm’s complete line of plant protection products. Contact your Nufarm representative to customize your plan.

<table>
<thead>
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<th>DISEASE POTENTIAL</th>
<th>BACTERIAL BLIGHT</th>
<th>BOTRYTIS</th>
<th>POINSETTIA SCAB</th>
<th>POWDERY MILDEW</th>
<th>PYTHIUM</th>
<th>RHIZOCTONIA</th>
<th>THIELAVIOPSIS</th>
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<td>26/36® FRAC 1 + 2</td>
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<td>3336® DG LITE</td>
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<td>3336® EG FRAC 1</td>
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<td>ADORN® FRAC 43</td>
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<td>AFFIRM™ FRAC 19</td>
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<td>AGRI-MYCIN® 50</td>
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<td>ALUDE™ FRAC 33</td>
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<td>CUPROXAT® FL FRAC M1</td>
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<td>PROTECT® DF FRAC M3</td>
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<td>SPECTRO® 90 FRAC 1 + M5</td>
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<td>SPIRATO® GHN FRAC 12</td>
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</table>
**26/36®**

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

**Key Uses**
Ornamentals

**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)
  - 13.5 fl oz (drench)
  - 33 – 66 fl oz (dip)

(see label for specific rates)

**EPA Reg. No.**
228-630

**Active Ingr.**
iprodione (19.65%), thiophanate-methyl (19.65%)

**Formulation**
flowable

**Chem. Family**
dicarboxamide, thiophanates

**FRAC No.**
1 & 2

**REI**
12 hours (ornamentals)

**Package Size**
2 x 2.5 gal

**Application**
spray, drench, dip

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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

**Key Diseases Controlled**
Botrytis, Cercospora, Rhizoctonia, Thielaviopsis
(see label for complete list)

- **Rate / 1000 sq ft**
  - 22 – 30 lb

(see label for specific rates)

**EPA Reg. No.**
1001-70

**Active Ingr.**
thiophanate-methyl (2.08%)

**Formulation**
granular

**Chem. Family**
thiophanates

**FRAC No.**
1

**REI**
12 hours

**Package Size**
30 lb bag

**Application**
broadcast, top dress, soil incorporation

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**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 and lathhouses

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

- **Rate / 1000 sq ft**
  - 2 – 6 oz

(see label for specific rates)

**EPA Reg. No.**
1001-89

**Active Ingr.**
thiophanate-methyl (50%)

**Formulation**
water-dispersible granule

**Chem. Family**
thiophanates

**FRAC No.**
1

**REI**
12 hours

**Package Size**
4 x 5 lb

**Application**
spray, drench, dip

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**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)

**EPA Reg. No.**
1001-69

**Active Ingr.**
thiophanate-methyl (41.25%)

**Formulation**
flowable

**Chem. Family**
thiophanates

**FRAC No.**
1

**REI**
12 hours

**Package Size**
12 x 1 qt, 2 x 2.5 gal

**Application**
spray, drench, dip

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**OMRI Listed**
**Greenhouse**
**Field-Grown Nursery**
**Container-Grown Nursery**
**Edibles**
**OMRI Listed**
**Warning**
**Restricted-Use**
**Aquatic**
**Danger**
**Caution**
**Adorn**

**ADORN**
With a novel mode of action, Adorn is an excellent addition to fungicide 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

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**Affirm**

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

**KEY USES**
Edibles, ornamentals

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**Agri-Mycin® 50**

**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 mode of action is unique to streptomycin and is an essential part of any bacterial disease control program.

**KEY USES**
Apples, celery, pear, peppers, potatoes, tobacco, tomatoes, tree crops

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**Alude™**

**ALUDE™**
A systemic fungicide, Alude 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

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**Actinovate® SP**

**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
**Cuproxat FL**

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, shade crops, ornamentals

**NOW OMRI LISTED® FOR ORGANIC CROP PRODUCTION**

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**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 combines two broad-spectrum fungicides to deliver contact and systemic plant 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**
More than 110 ornamental species including annual and perennial flowers, bedding plants, deciduous and evergreen trees and shrubs, foliage plants, groundcovers

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**Spirato GHN**

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

**KEY USES**
More than 45 ornamental species including African violet, aster, azalea, begonia, pansy, petunia, poinsettia, brassica leafy vegetables, leafy vegetables, herbs

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**Strider™**

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

**KEY USES**
Nursery and outdoor ornamentals

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### Torque™

**TOURQUE™**
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**
Outdoor ornamentals

<table>
<thead>
<tr>
<th><strong>KEY DISEASES CONTROLLED</strong></th>
<th>Anthracnose, black spot, leaf spots, petal blight, powdery mildew, rust, scab, southern blight (see label for complete list)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RATE / 100 GAL</strong></td>
<td>1 – 4 oz (see label for specific rates)</td>
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<tr>
<td><strong>EPA REG. NO.</strong></td>
<td>1001-87</td>
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<tr>
<td><strong>ACTIVE INGR.</strong></td>
<td>tebuconazole (38.7%)</td>
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<tr>
<td><strong>FORMULATION</strong></td>
<td>liquid suspension</td>
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<tr>
<td><strong>CHEM. FAMILY</strong></td>
<td>triazole</td>
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<tr>
<td><strong>FRAC NO.</strong></td>
<td>3</td>
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<tr>
<td><strong>REI</strong></td>
<td>12 hours</td>
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<tr>
<td><strong>PACKAGE SIZE</strong></td>
<td>5 x 1 gal</td>
</tr>
<tr>
<td><strong>APPLICATION</strong></td>
<td>spray</td>
</tr>
</tbody>
</table>

### Tourney™

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

**KEY USES**
Outdoor ornamentals

<table>
<thead>
<tr>
<th><strong>KEY DISEASES CONTROLLED</strong></th>
<th>Anthracnose, apple scab, leaf spots, powdery mildew, Rhizoctonia, rusts (see label for complete list)</th>
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</thead>
<tbody>
<tr>
<td><strong>RATE / 100 GAL</strong></td>
<td>4 – 10 fl oz (see label for specific rates)</td>
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<tr>
<td><strong>EPA REG. NO.</strong></td>
<td>59639-144</td>
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<tr>
<td><strong>ACTIVE INGR.</strong></td>
<td>metconazole (50%)</td>
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<tr>
<td><strong>FORMULATION</strong></td>
<td>water-dispersible granule</td>
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<tr>
<td><strong>CHEM. FAMILY</strong></td>
<td>triazole</td>
</tr>
<tr>
<td><strong>FRAC NO.</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>REI</strong></td>
<td>12 hours</td>
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<tr>
<td><strong>PACKAGE SIZE</strong></td>
<td>4 x 5 lb</td>
</tr>
<tr>
<td><strong>APPLICATION</strong></td>
<td>spray, drench</td>
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</tbody>
</table>
**Fascination**

**FASCINATION**®
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

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**RiteWay®**

**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

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**Sumagic®**

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

**KEY USES**
Greenhouse

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**KEY PERFORMANCE BENEFITS**
- Delays leaf yellowing, increases flower size and number, prolongs flowering, plant vigor and growth (see label for complete list)
- Increases lateral or basal branching, promotes flowering and reduces overall plant height (see label for complete list)
- Enhances floral density and foliage color, improves stress tolerance, increases plant shelf life (see label for complete list)

**RATE**
- Consult label
- Consult label
- Consult label

**EPA REG. NO.**
- 73049-41
- 71368-60
- 59639-37

**ACTIVE INGR.**
- benzyladenine (7.8%), gibberellins (7.8%)
- benzyl adenine (6-BA) (1.9%)
- uniconazole-P (.055%)

**FORMULATION**
- liquid
- liquid
- liquid

**CHEM. FAMILY**
- purine
- gibberellins
- triazole

**REI**
- 4 hours
- 12 hours
- 12 hours

**PACKAGE SIZE**
- 4 x 1 gal case
- 4 x 1 gal
- 4 x 1 gal, 15 gal drum

**APPLICATION**
- spray
- spray
- spray

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**NOTES**

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LOCK IN PROTECTION. TIMES 2.

At Nufarm, we believe in taking care of your crops every step of the way. Whether the season is just starting or you’re getting ready for sale, our complete line of plant protection products has you covered.

For locked-in protection against devastating insect pests, consider drench-applied Safari® Insecticide for lasting residual and TriStar® Insecticide for shorter action as you near delivery dates.

START STRONG WITH SAFARI.
Safari® is the leading drench/spray insecticide in the market for a good reason: performance. Safari controls more insects faster and longer than any comparable insecticide. It provides excellent control of Q-biotype and B-biotype whiteflies, aphids, fungus gnats, leafhoppers, leafminers, mealybugs, armored scales and soft scales.

FINISH STRONGER WITH TRISTAR.
TriStar® is the leading midway-to-finish spray insecticide. With its broad-spectrum control and quick knockdown of many challenging insects, TriStar protects plants during their important transition to store shelves. Plus, TriStar is an alternative where pollinator impact is a concern.
**Nufarm Chlorpyrifos SPC 4**

**NUFARM CHLORPYRIFOS SPC 4**
Achieve consistent, proven control of more than 200 outdoor destructive pests with Nufarm Chlorpyrifos SPC 4. Approved for selective USDA quarantine applications.

**KEY USES**
Greenhouse and outdoor ornamentals

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**DiPel’ PRO DF**

**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

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**Distance**

**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

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**Gnatrol’ WDG**

**GNATROL’ WDG BIOLOGICAL LARVICIDE**
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
**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

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**Mantra® 60 WSP**

*Mantra® 60 WSP* is a systemic insecticide for greenhouse ornamentals providing long-residual, upward systemic control of piercing and sucking pests.

**KEY USES**
Greenhouse and nursery

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**Mantra® 1G**

*Mantra® 1G* is a granular formulation for greenhouse ornamentals providing long-residual, upward systemic control of piercing and sucking pests. An excellent choice for soil media applications.

**KEY USES**
Ornamental plants in greenhouses, nurseries and interior plantscapes

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**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

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**Overture® 35 WP**

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

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*This guide is intended to provide a product overview. See product labels for complete details and labeled use listing.*
Safari®

SAFARI® 20 SG
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

KEY PESTS CONTROLLED
Aphids, armored and soft scales, fungus gnats, leafminers, mealybugs, whiteflies (including Q- and B-biotype) and many more (see label for complete list)

RATE / 1 GAL
12 – 24 oz (basal bark)
RATE / 100 GAL
4 - 8 oz (spray)
12 – 24 oz (drench)
(see label for specific rates)

EPA REG. NO. 86203-11-59639
ACTIVE INGR. dinotefuran (20%)
FORMULATION water soluble granule
CHEM. FAMILY neonicotinoid
IRAC NO. 4A
REI 12 hours
PACKAGE SIZE 16 x 12 oz bottle, 4 x 3 lb bottle
APPLICATION spray, drench, basal bark

Tame®

TAME® 2.4 EC SPRAY
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

KEY PESTS CONTROLLED
Aphids, glassy-winged sharpshooters, mites, scales, whiteflies (see label for complete list)
RATE Consult label

EPA REG. NO. 59639-77
ACTIVE INGR. fenpropathrin (30.9%)
FORMULATION liquid
CHEM. FAMILY pyrethroid
IRAC NO. 3
REI 24 hours
PACKAGE SIZE 12 x 1 qt bottle
APPLICATION spray

TetraSan®

TETRASAN® 5 WDG
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

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

EPA REG. NO. 59639-108
ACTIVE INGR. etoxazole (5%)
FORMULATION water-dispersible granule
CHEM. FAMILY oxazoline
IRAC NO. 10B
REI 12 hours
PACKAGE SIZE 8 x 2 oz WSP packet
APPLICATION spray

TriStar®

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 lathhouses

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

EPA REG. NO. 8033-106-1001
ACTIVE INGR. acetamiprid (8.5%)
FORMULATION soluble liquid
CHEM. FAMILY neonicotinoid
IRAC NO. 4A
REI 12 hours
PACKAGE SIZE 8 x 4 oz tip-n-pour, 4 x 1 qt, 4 x 1 gal
APPLICATION spray

NOTES
SEE THE PRODUCT LABEL
EXHIBITS LOWER RISK TO POLLINATORS
ACETAMIPRID IS AN EPA CLASSIFIED REDUCED RISK INSECTICIDE

NOTE:
SEE THE PRODUCT LABEL
EXHIBITS LOWER RISK TO POLLINATORS
ACETAMIPRID IS AN EPA CLASSIFIED REDUCED RISK INSECTICIDE
### 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

**KEY WEEDS CONTROLLED**
Bladderwort, cattail, duckweed, frog’s bit, hydrilla, pennywort, water hyacinth, 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)

**EPA REG. NO.** 228-675
**ACTIVE INGR.** diquat dibromide (37.3%)
**FORMULATION** liquid
**CHEM. FAMILY** bipyridylium
**HRAC NO.** 22
**REI** 24 hours
**PACKAGE SIZE** 4 x 1 gal, 2 x 2.5 gal
**APPLICATION** spray

### 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

**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)

**EPA REG. NO.** 228-509
**ACTIVE INGR.** glyphosate (40.15%), prodiamine (7.51%)
**FORMULATION** liquid
**CHEM. FAMILY** glycine, dinitroaniline
**HRAC NO.** 9 & 3
**REI** 12 hours*
**PACKAGE SIZE** 8 x 64 oz squeeze-and-pour, 4 x 1 gal, 2 x 2.5 gal
**APPLICATION** spray

*or until sprays have dried

### 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

**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)

**EPA REG. NO.** 228-366
**ACTIVE INGR.** glyphosate (41%)
**FORMULATION** liquid
**CHEM. FAMILY** glycine
**HRAC NO.** 9
**REI** 4 hours*
**PACKAGE SIZE** 2 x 2.5 gal, 30 gal
**APPLICATION** spray

*or until sprays have dried

### Razor® Burn®

**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

**KEY WEEDS CONTROLLED**
Many annual and perennial weeds and woody brush (see label for complete list)

| RATE | Consult label |

**EPA REG. NO.** 228-446
**ACTIVE INGR.** glyphosate (41%), diquat dibromide (2.1%)
**FORMULATION** liquid
**CHEM. FAMILY** glycine derivative, bipyridylium
**HRAC NO.** 9 & 22
**PACKAGE SIZE** 8 x 64 oz squeeze-and-pour, 4 x 1 gal
**APPLICATION** spray
### Razor Pro

**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

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### Envoys Plus

**ENVOY PLUS®**

Envoys Plus® is the most effective post-emergence grass control herbicide. It provides over-the-top control of both annual and perennial grasses with excellent plant safety.

**KEY USES**

Conifer trees, garden flowers and plants, groundcovers, ornamental trees and shrubs

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### Broadstar

**BROADSTAR™**

Broadstar™ is the best pre-emergence granular herbicide because it controls tough broadleaf and grassy weeds with the longest residual performance.

**KEY USES**

Container and field grown ornamentals, non-bearing fruit and nut trees and vines, non-crop areas and around buildings, fencerows, gravel surfaces, driveways, ground mats, and other similar sites

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### Double O SPC

**DOUBLE O™ SPC**

Keep ornamentals free from a broad range of weeds for up to three months with this low-odor and low-dust formulation.

**KEY USES**

Container-grown ornamentals, field-grown ornamentals and labeled Christmas trees, landscape ornamentals, cut flower and foliage crops

---

#### Key Weeds Controlled

**Razor Pro**

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

**Rate**

Consult label

**EPA REG. NO.**

228-366

**ACTIVE INGR.**

glyphosate (41.0%)

**Formulation**

liquid

**Chem. Family**

glycine derivative

**HRAC NO.**

9

**REI**

4 hours*

**Package Size**

5 x 1 gal, 2 x 2.5 gal, 30 gal

**Application**

spray

*or until sprays have dried

---

#### Key Weeds Controlled

**Envoys Plus**

Annual and perennial grasses (see label for complete list)

**Rate**

0.4 – 0.8 fl oz

**EPA REG. NO.**

59639-132

**ACTIVE INGR.**

clothodim (12.6%)

**Formulation**

liquid

**Chem. Family**

cyclohexene oxime

**HRAC NO.**

1

**REI**

24 hours

**Package Size**

4 x 1 gal

**Application**

spray

---

#### Key Weeds Controlled

**Broadstar**

Bittercress, chickweed, common groundsel, liverwort, oxalis, Palmer amaranth, spiny amaranth, spurge (garden, hairy, prostrate, spotted) (see label for complete list)

**Rate**

150 lb

**EPA REG. NO.**

59639-128

**ACTIVE INGR.**

flumioxazin (0.25%)

**Formulation**

granule

**Chem. Family**

N-phenylphthalimide

**HRAC NO.**

14

**REI**

12 hours

**Package Size**

50 lb bag

**Application**

broadcast

---

#### Key Weeds Controlled

**Double O SPC**

Chickweed, clover, dandelion, groundsel, lambquarters, oxalis, pigweed, shepherd’s purse, spurge (garden, hairy, prostrate, spotted) (see label for complete list)

**Rate**

50 – 100 lbs (broadcast dry)

**EPA REG. NO.**

228-632

**ACTIVE INGR.**

oxyfluorfen (2%), oryzalin (1%)

**Formulation**

granular

**Chem. Family**

dinitroaniline, diphenylether

**HRAC NO.**

3 & 14

**REI**

24 hours

**Package Size**

50 lb bag

**Application**

broadcast
SUREGUARD®

SUREGUARD® is the best pre-emergence sprayable herbicide because it controls a broad spectrum of tough broadleaf and grassy weeds with the longest residual activity available.

KEY USES
Container and field grown ornamentals, non-bearing fruit and nut trees and vines, non-crop areas and around buildings, fencerows, gravel surfaces, driveways, ground mats, and other similar sites

SUREGUARD® SC

SUREGUARD® SC, now in a convenient new liquid formulation, controls grass and broadleaf weeds with the same long-lasting residual that you have come to expect from SureGuard.

KEY USES
Container and field grown ornamentals, non-bearing fruit and nut trees and vines, non-crop areas and around buildings, fencerows, gravel surfaces, driveways, ground mats and slow moving or quiescent aquatic sites

KEY WEEDS CONTROLLED
Bittercress, chickweed, common groundsel, oxalis, Palmer amaranth, spiny amaranth, spurge
(see label for complete list)
RATE / ACRE 8 – 12 oz
(see label for specific rates)

SUREGUARD®

SUREGUARD® is the best pre-emergence sprayable herbicide because it controls a broad spectrum of tough broadleaf and grassy weeds with the longest residual activity available.

KEY USES
Container and field grown ornamentals, non-bearing fruit and nut trees and vines, non-crop areas and around buildings, fencerows, gravel surfaces, driveways, ground mats, and other similar sites

SUREGUARD® SC

SUREGUARD® SC, now in a convenient new liquid formulation, controls grass and broadleaf weeds with the same long-lasting residual that you have come to expect from SureGuard.

KEY USES
Container and field grown ornamentals, non-bearing fruit and nut trees and vines, non-crop areas and around buildings, fencerows, gravel surfaces, driveways, ground mats and slow moving or quiescent aquatic sites

KEY WEEDS CONTROLLED
Bittercress, chickweed, eclipta, field pennycress, Florida beggarweed, Florida pusley, groundsel, kochia, lambsquarters, mallow, morningglory, nightshade, Palmer amaranth, Pennsylvania smartweed, pigweed, prickly sida (teaweed), puncturevine, ragweed, redmaids, Russian thistle, shepherd’s-purse, spiny amaranth, spurge, velvetleaf, waterhemp, yellow rocket.
AQUATIC WEEDS: Alligator weed, duckweed, frog’s bit, water fern, water lettuce, watermeal
(see label for complete list)
RATE / ACRE 8 – 12 fl oz
(see label for specific rates)
SUREGUARD® AND MARENGO® LOOK SIMILAR ON PAPER, BUT THEY ARE TWO VERY DIFFERENT HERBICIDES.

Although SureGuard 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 outperforms Marengo when controlling annual winter weeds including bittercress and other mustards. SureGuard also provides post-emerge weed control, empowering you to take down existing weeds while stopping new weeds before they start.

SUREGUARD PERFORMANCE BENEFITS:
- Controls annual winter weeds including bittercress and other mustards
- Provides post-emerge weed control
- Improves glyphosate spectrum and speed
- Better tolerated by cool-season turf
- SureGuard SC now available – same power as SureGuard in a convenient liquid formulation

### SUREGUARD VS. MARENGO PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>SUREGUARD</th>
<th>MARENGO</th>
</tr>
</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>
</tr>
<tr>
<td>SUMMER BROADLEAF WEED CONTROL</td>
<td>VERY GOOD</td>
<td>VERY GOOD</td>
</tr>
<tr>
<td>WINTER ANNUAL WEED CONTROL</td>
<td>VERY GOOD</td>
<td>FAIR TO GOOD weak on bittercress and other mustards</td>
</tr>
<tr>
<td>ROOT PRUNING HERBICIDE</td>
<td>NO</td>
<td>YES</td>
</tr>
<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>
</tr>
</tbody>
</table>
GROWING BETTER
SINCE 1916

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

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