

Greenhouse & Nursery

Product Guide



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





YOUR FORMULA FOR SUCCESS

Protecting high-value greenhouse crops and staying ahead of resistance while managing labor resources is a constant balancing act. Nufarm supports you with powerfully proven formulations that drive success day after day – **including multiple new solutions ready to boost your advantage in 2026.**

FUNGICIDES

Champion++™
Ensemble™*

INSECTICIDES

OpteraPro®
OpteraPro® Duo*
Simpell™

HERBICIDES

SureGuard® Xtra

There's so much new from Nufarm...

Simpell™ insecticide offers fast, easy and effective control for nursery ornamentals and greenhouse plants to quickly stop thrips, spider mites, beetles and other foliar pests. Its biologically derived active ingredient, spinosad, is soft on beneficial insects and a useful IPM tool.

*Ensemble and OpteraPro Duo are pending EPA registration. Always read and follow label instructions.

DiPel® PRO DF

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

KEY USES

Landscape, ornamentals

KEY PESTS CONTROLLED

Lepidopterous worms: armyworms, loopers, tent caterpillars, tobacco budworms, various bagworms and many other worms (see label for complete list)

RATE / ACRE 0.5 – 2.0 lb
(see label for specific rates)

EPA REG. NO.	73049-39
ACTIVE INGR.	<i>Bacillus thuringiensis</i> (54%)
FORMULATION	dry flowable
CHEM. FAMILY	bacillus
IRAC NO.	11A REI 4 hours
PACKAGE SIZE	30 x 1 lb
APPLICATION	spray



Distance®

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

KEY PESTS CONTROLLED

Fungus gnats, leafminers, scales, shore flies, whiteflies (see label for complete list)

RATE / 100 GAL 6 – 12 fl oz (spray)
2 – 6 fl oz (drench)
(see label for specific rates)

EPA REG. NO.	59639-96
ACTIVE INGR.	pyriproxyfen (0.86 lbs/gal)
FORMULATION	emulsifiable concentrate
CHEM. FAMILY	pyriproxyfen
IRAC NO.	7C REI 12 hours
PACKAGE SIZE	4 x 1 qt tip-n-measure
APPLICATION	spray, drench, sprencn



Engulf™ GHN

Engulf GHN delivers up to 28 days of control to 18 common mites. It's beneficial-friendly and complements proven Minx 2 and TetraSan 5 WDG to form our most powerful mite program yet.

KEY USES

Greenhouse ornamentals, shadehouse ornamentals, greenhouse tomatoes, Christmas tree and conifer plantations and nurseries

KEY PESTS CONTROLLED

Avocado red spider mite, bamboo spider mite, banks grass mite, brown almond mite, citrus red mite, clover mite, Lewis mite, McDaniel spider mite, Pacific spider mite, pecan leaf scorch mite, Persea mite, six-spotted mite, southern red mite, spruce spider mite, strawberry spider mite, two-spotted spider mite, Willamette mite (see label for complete list)

RATE / 100 GAL 2 – 4 fl oz (spray)
(see label for specific rates)

EPA REG. NO.	228-748
ACTIVE INGR.	bifenazate (4 lbs/gal)
FORMULATION	soluble concentrate
CHEM. FAMILY	carbazates
IRAC NO.	20D REI 12 hours
PACKAGE SIZE	8 x 1 pt
APPLICATION	spray



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

KEY PESTS CONTROLLED

Fungus gnat larvae (see label for complete list)

RATE / 100 GAL 3.2 – 6.4 oz (drench)
13 – 26 oz (heavy infestation)
(see label for specific rates)

EPA REG. NO.	73049-56
ACTIVE INGR.	<i>Bacillus thuringiensis</i> (37.4%)
FORMULATION	water-dispersible granule
CHEM. FAMILY	bacillus
IRAC NO.	11A REI 4 hours
PACKAGE SIZE	16 lb pail
APPLICATION	chemigation, drench, drip



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

KEY PESTS CONTROLLED

Aphids, leafhoppers, leafminers, mealybugs, psyllids, root weevil complex, scales, whiteflies, white grub larvae (see label for complete list)

RATE Consult label

Versatile label with over-the-top and soil incorporation uses to meet your operational needs.

EPA REG. NO.	228-501
ACTIVE INGR.	imidacloprid (0.5%)
FORMULATION	granular
CHEM. FAMILY	neonicotinoid
IRAC NO.	4A REI 12 hours
SIGNAL WORD	caution
PACKAGE SIZE	30 lb bag



FIELD-GROWN NURSERY



GREENHOUSE



OMRI LISTED



WARNING



RESTRICTED-USE



CONTAINER-GROWN NURSERY



EDIBLES



DANGER



CAUTION



AQUATIC

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

KEY PESTS CONTROLLED

Aphids, leafminers, mealybugs, scales, whiteflies (see label for complete list)

RATE Consult label

EPA REG. NO.	228-695
ACTIVE INGR.	imidacloprid (2 lb/gal)
FORMULATION	liquid
CHEM. FAMILY	neonicotinoid
IRAC NO.	4A REI 12 hours
PACKAGE SIZE	4 x 1 gal, 2 x 2.5 gal
APPLICATION	spray, drench



Minx™ 2

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

KEY USES

Greenhouse and nursery ornamentals

KEY PESTS CONTROLLED

Aphids, leafminers, mites, thrips, whiteflies (see label for complete list)

RATE / 100 GAL 4 - 8 fl oz

EPA REG. NO.	228-736
ACTIVE INGR.	abamectin (0.15 lb/gal)
FORMULATION	microemulsion
CHEM. FAMILY	avermectin
IRAC NO.	6 REI 12 hours
PACKAGE SIZE	4 x 1 qt, 4 x 1 gal
APPLICATION	spray



OpteraPro®

For commercial ornamental nurseries and greenhouses, OpteraPro® Insecticide provides long-lasting protection against a wide range of insect pests. OpteraPro stops insect damage and preserves plant quality through rapid and effective pest control. OpteraPro acts quickly, stopping feeding within minutes of ingestion, while being gentle on beneficial insects. With flexible application rates and timing, OpteraPro is essential for Integrated Pest Management (IPM) and resistance management programs.

KEY PESTS CONTROLLED

FOLIAR PESTS: Fall webworm, gypsy moth caterpillar, sawfly larvae, Japanese beetle adults, leaf-feeding caterpillars, such as bagworms, tussock moth caterpillars, Zimmerman pine moth

SYSTEMIC SOIL TREATMENTS: aphids, lace bugs, birch leafminer

WHITE GRUBS
(see label for complete list)

RATE Consult label

KEY USES

Commercial ornamental nurseries and greenhouses, shade houses, lathhouses, and hoop houses

EPA REG. NO.	228-768
ACTIVE INGR.	chlorantraniliprole (1.67 lb/gal)
FORMULATION	suspension concentrate
CHEM. FAMILY	anthranilic diamide
IRAC NO.	28 REI 4 hours
PACKAGE SIZE	4 x 1 qt tip-n-measure, 4 x 1 gal
APPLICATION	spray



OpteraPro® DUO

OpteraPro® Duo Insecticide provides powerful, dual-action pest control for ornamental plants. Harnessing the power of chlorantraniliprole and bifenthrin, OpteraPro Duo not only halts pest damage but also ensures long-lasting, broad-spectrum protection. Its flexible application rates and timing make it both economical and efficient.

*OpteraPro Duo is pending EPA Registration.

KEY PESTS CONTROLLED

Aphids, beetles (including flea beetle), borers, caterpillars, clearwing, fungus gnats, lace bugs, moths, mites, pillbugs, scales, sowbugs, thrips, weevils, whitefly and white grubs

NUISANCE PESTS: ants (nuisance), centipedes, chiggers, crickets, earwigs, fleas, grasshoppers, leafhoppers, mealy bugs, millipedes, ticks (see label for complete list)

RATE Consult label

KEY USES

Commercial ornamental nurseries and greenhouses

EPA REG. NO.	Pending EPA Registration
ACTIVE INGR.	chlorantraniliprole (0.83 lb/gal) + bifenthrin (0.64 lb/gal)
FORMULATION	suspension concentrate
CHEM. FAMILY	anthranilic diamide + pyrethroid
IRAC NO.	28 and 3A
SIGNAL WORD	warning*
PACKAGE SIZE	4 x 64 fl oz tip-n-measure, 2 x 2.5 gal
APPLICATION	spray, drench

Overture®

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

KEY PESTS CONTROLLED

Lepidopterous worms, thrips (see label for complete list)

RATE / 100 GAL 8 oz
(see label for specific rates)

EPA REG. NO.	59639-125
ACTIVE INGR.	pyridalyl (35%)
FORMULATION	wettable powder
CHEM. FAMILY	pyridine
IRAC NO.	UN REI 12 hours
PACKAGE SIZE	8 x (8 x 2 oz WSP)
APPLICATION	spray



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Safari

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 on ornamentals)
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, 4 x 3 lb

APPLICATION spray, drench, basal bark



Simpell

Simpell™ has potent and broad activity against many different types of foliar pests, caterpillars, thrips, mites, beetles, flies and fleas. Simpell is strongest against some pests that are traditionally the hardest to control, or very prone to resistance, including beetles, thrips and spider mites.

KEY PESTS CONTROLLED

Lepidoptera larvae, leafminers and gall midges, thrips, mites and sawfly larvae (see label for complete list)

RATE / 100 GAL 3 - 11 fl oz

KEY USES

Ornamentals (herbaceous and woody), turfgrass, greenhouse vegetables

EPA REG. NO. 228-767

ACTIVE INGR. spinosad (2 lb/gal)

FORMULATION suspension concentrate

CHEM. FAMILY spinosyn A & D

IRAC NO. 5

PACKAGE SIZE 4 x 1 qt, 4 x 1 gal

APPLICATION spray, drench



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. fenprothiprin (2.4 lb/gal)

FORMULATION liquid

CHEM. FAMILY pyrethroid

IRAC NO. 3A **REI** 24 hours

PACKAGE SIZE 12 x 1 qt

APPLICATION spray



Tame® is an EPA Restricted-Use Pesticide. Always read and follow label directions.

TetraSan

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 including; citrus red mites, European red mites, lewis spider mites, Pacific spider mites, southern red mites, spruce spider mites, two-spotted 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 (8 x 2 oz WSP)

APPLICATION spray



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 landscapes).

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 / 100 GAL 4 - 25.3 fl oz

EPA REG. NO. 8033-106-1001

ACTIVE INGR. acetamiprid (0.76 lb/gal)

FORMULATION soluble liquid

CHEM. FAMILY neonicotinoid

IRAC NO. 4A **REI** 12 hours

PACKAGE SIZE 4 x 1 qt, 4 x 1 gal

APPLICATION spray



FIELD-GROWN NURSERY



GREENHOUSE



OMRI LISTED



WARNING



RESTRICTED-USE



CONTAINER-GROWN NURSERY



EDIBLES



DANGER



CAUTION



AQUATIC

Proven Defense



INSECT MATRIX	PRODUCT													
	DIPEL® PRO DF	DISTANCE® IGR	ENGULF™ GHN GREENHOUSE AND ORNAMENTAL MITIGATOR	GNATROL® WDG	MALLET® 0.5 G	MALLET® 2FT&O	MINX™ 2	OPTERAPRO™	OVERTURE®*	SAFARI®	TAME®	TETRASAN®	TRISTAR®	SIMPELL™
MODE OF ACTION	11A	7C	20D	11A	4A	4A	6		UN	4A	3	10B	4A	5
Adelgids	N/A	N/A	N/A	N/A	★★★★	★★★★	N/A	★★	N/A	★★★★	N/A	N/A	★★★	N/A
Ants <i>(imported red fire ants)</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aphid	N/A	★	N/A	N/A	★★★★	★★★★	★★	★★★	N/A	★★★★	★★★★	N/A	★★★★	N/A
Bagworms	N/A	N/A	N/A	N/A	N/A	N/A	N/A	★★★	N/A	★★	N/A	N/A	N/A	★★★
Beetles	N/A	N/A	N/A	N/A	★★★	★★★	N/A	★★★	N/A	★★	★★★★	N/A	★★★★	★★★
Borers	N/A	N/A	N/A	N/A	N/A	★★★	N/A	★★	N/A	★★★★	N/A	N/A	N/A	N/A
Boxwood tree moth	★★★	N/A	N/A	N/A	N/A	N/A	N/A	★★★	N/A	N/A	★★★	N/A	N/A	N/A
Fungus gnat	N/A	★★★★	N/A	★★★★	★★★	N/A	N/A	N/A	N/A	★★★★	N/A	N/A	★★	N/A
Lacebugs	N/A	N/A	N/A	N/A	★★★★	★★★★	N/A	★★★	N/A	★★★★	★★★★	N/A	N/A	N/A
Leafhopper	N/A	N/A	N/A	N/A	★★★	★★★	N/A	N/A	N/A	★★★★	★★★★	N/A	★★★★	N/A
Leafminer	N/A	★★★	N/A	N/A	★★★★	★★★★	★★	★	N/A	★★★★	★★	N/A	★★★	★★★
Lepidopterous worms <i>(caterpillars)</i>	★★★★	N/A	N/A	N/A	N/A	N/A	N/A	★★★★	★★★★	N/A	★★★★	N/A	★★	★★★★
Mealybug	N/A	★	N/A	N/A	★★★★	★★★★	N/A	N/A	N/A	★★★★	★★	N/A	★★★★	N/A
Psyllids	N/A	N/A	N/A	N/A	★★★★	★★★★	N/A	N/A	N/A	★★★★	N/A	N/A	★★★★	N/A
Red-headed flea beetle	N/A	★★★	N/A	N/A	★★★	★★★	N/A	N/A	N/A	★★★★	★★★★	N/A	★★★★	N/A
Scale, armored	N/A	★★	N/A	N/A	★	★	N/A	★★	N/A	★★★★	N/A	N/A	★★★★	N/A
Scale, soft	N/A	★★★	N/A	N/A	★★	★★	N/A	★★	N/A	★★★★	★★★★	N/A	★★★★	N/A
Shore fly	N/A	★★	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	★★★
Spider mite	N/A	N/A	★★★★	N/A	N/A	N/A	★★★★	N/A	N/A	N/A	★★	★★★★	N/A	★★
Tarsonemid mite	N/A	N/A	N/A	N/A	N/A	N/A	★★★	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Thrips	N/A	N/A	N/A	N/A	★	★	★★	N/A	★★★★	★	★	N/A	★★★	★★★★
Whitefly	N/A	★★★★	N/A	N/A	★★★	★★★	★★	N/A	N/A	★★★★	★★★★	N/A	★★★★	N/A

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

* Not listed for nursery

† Foliar only

26-GHN-0003



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Proven Defense



DISEASE MATRIX	SYMPTOM	PRODUCT													
		26/36*	3336* EG 3336* F	ADORN*	AFFIRM††	CHAMPION++™	ENSEMBLE™**	PHOSTROL*	PROTECT™ DF	SPECTRO* 90*	SPIRATO* GHN	STRIDER™	TORQUE™	TOURNEY* EZ*	
Alternaria	flower/leaf blight/spots	★★★★	★★	N/A	★★★★	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	
Anthracnose	large leaf spots	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	
Aschochyta Blights	brown spots with light edges	★★★★	★★★★	N/A	★★★★	N/A	★★★★	N/A	★★★★	★★★★	N/A	★★★★	★★★★	N/A	
Bacteria	yellow rings with brown centers	N/A	N/A	N/A	N/A	★★★★	N/A	★★★★	★★★★	N/A	N/A	N/A	N/A	N/A	
Rose Black Spot	many small black spots and leaf yellowing	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	N/A	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	
Botrytis	leaf wilt and death	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	★★★★	★★	★★	
Boxwood Blight	light or dark brown leaf spots leading to defoliation	★★	★★★★	N/A	N/A	★★★★	N/A	N/A	★★★★	★★★★	★★★★	N/A	★★★★	★★★★	
Cercospora	leaf spot/blight	★★★★	★★★★	N/A	N/A	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	
Conifer Blight	bark cankers, discolored/wet patches, dead/decayed sapwood	N/A	★★	N/A	N/A	★★★★	N/A	N/A	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	
Curvularia	light brown to dark brown irregular lesions	★★★★	★★	N/A	★★★★	N/A	★★	N/A	★	★★	N/A	N/A	★★★★	N/A	
Cylindrocladium	root rots, crown and lower stem blights and leaf spots	★★★★	★★★★	N/A	★★★★	N/A	★★★★	N/A	★★	★★★★	★★★★	N/A	★★★★	★★★★	
Downy Mildew	grey fuzz on leaves or stems	N/A	N/A	★★★★	★★	★★★★	★★★★	★★★★	★★★★	★	N/A	N/A	N/A	N/A	
Drechslera (<i>Ink Spot</i>)	similar to Helminthosporium	★★★★	★★	N/A	★★★★	N/A	★★	N/A	★★	★★★★	N/A	N/A	★★★★	N/A	
Fusarium	wilting and stem rot	★★★★	★★★★	N/A	★	N/A	★★★★	N/A	N/A	★★★★	★★★★	N/A	★★★★	N/A	
Helminthosporium (<i>Leaf Spot</i>)	greasy spots/areas	★★★★	★★	N/A	★★★★	★★	★★	N/A	★★	★★★★	N/A	★★★★	★★★★	N/A	
Leaf Spot/Blight	brown/black leaf spots	★★★★	★★★★	N/A	★★★★	N/A	★★★★	N/A	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	
Phytophthora	root and stem rots	N/A	N/A	★★★★	N/A	★★	★★★★	N/A	★	★★	N/A	N/A	N/A	N/A	
Powdery Mildew	fluffy mildew	★★	★★	N/A	★★★★	N/A	★★★★	N/A	N/A	★★	N/A	★★★★	★★★★	★★★★	
Pythium	wilting/declining plants, black roots	N/A	N/A	★★★★	N/A	N/A	★★★★	★★★★	N/A	N/A	N/A	N/A	N/A	N/A	
Rhizoctonia Leaf	circles with yellow/orange edges	★★	★★★★	N/A	★★★★	N/A	★★★★	N/A	★★★★	★★★★	★★★★	★★	★★★★	N/A	
Rhizoctonia (<i>Root/Crown</i>)	wilting and yellow crowns	★★	★★★★	N/A	★★★★	N/A	★★★★	N/A	★	★★★★	★★★★	★★★★	★★★★	★★★★	
Rusts	brown rough areas	★★★★	★★★★	N/A	N/A	★★★★	★★★★	N/A	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	
Thielaviopsis	black root rot	★★★★	★★★★	N/A	★★★★	N/A	★★★★	N/A	★	★★★★	★★★★	N/A	N/A	N/A	
Scabs (<i>Fusicladium, Venturia</i>)	hard brown areas on fruits and leaves	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	★★	★★★★	★★★★	N/A	★★★★	★★★★	★★★★	

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

† Cleary Chemical, LLC is a wholly owned subsidiary of Nufarm. * Only labeled for use in outdoor nurseries and landscape ornamental plants.

** Ensemble is pending EPA Registration.



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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)

DILUTION RATE / 1000 SQ FT 33 – 84 fl oz (spray)
(or other surface area) 13.5 fl oz (drench)
33 – 66 fl oz (dip)

(see label for complete directions regarding dilution rates and applications per coverage area)

EPA REG. NO. 228-630

ACTIVE INGR. iprodione (1.9 lb/gal), thiophanate methyl (1.9 lb/gal)

FORMULATION flowable

CHEM. FAMILY dicarboxamide, benzimidazole

FRAC NO. 2 & 1 **REI** 12 hours*

PACKAGE SIZE 2 x 2.5 gal

APPLICATION spray, drench, dip



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, 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 benzimidazole

FRAC NO. 1 **REI** 12 hours

PACKAGE SIZE 30 lb bag

APPLICATION broadcast, top dress, soil incorporation



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

Anthraxnose, 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)

DILUTION RATE / 1000 SQ FT 8 – 24 fl oz (spray)
(or other surface area) 8 – 16 fl oz (drench)
16 – 24 fl oz (dip)

(see label for complete directions regarding dilution rates and applications per coverage area)

EPA REG. NO. 1001-89

ACTIVE INGR. thiophanate-methyl (50%)

FORMULATION water-dispersible granule

CHEM. FAMILY benzimidazole

FRAC NO. 1 **REI** 12 hours

PACKAGE SIZE 4 x 5 lb

APPLICATION spray, drench, dip



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 Consult label

EPA REG. NO. 1001-69

ACTIVE INGR. thiophanate-methyl (41.25%)

FORMULATION flowable

CHEM. FAMILY benzimidazole

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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This guide is intended to provide a product overview. See product labels for complete details and labeled use listing. For the latest version, please visit our website.



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

KEY DISEASES CONTROLLED

Downy mildew, phytophthora and pythium spp. (see label for complete list)

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

EPA REG. NO.	59639-141
ACTIVE INGR.	fluopicolide (4 lb/gal)
FORMULATION	flowable
CHEM. FAMILY	benzamides
FRAC NO.	43 REI 12 hours
PACKAGE SIZE	12 x 1 qt
APPLICATION	spray, drench



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, rhizoctonia (see label for complete list)

RATE / 100 GAL 0.25 – 0.5 lb
(see label for specific rates)

**POLYOXIN D ZINC SALT IS AN
EPA REGISTERED BIOPESTICIDE**

EPA REG. NO.	68173-3-1001
ACTIVE INGR.	polyoxin D zinc salt (11.3%)
FORMULATION	water-dispersible granule
CHEM. FAMILY	polyoxins
FRAC NO.	19 REI 4 hours
PACKAGE SIZE	3 x 2.4 lb
APPLICATION	spray, drench



Cleary Chemical, LLC is a wholly owned subsidiary of Nufarm.

ChampION⁺⁺™

ChampION⁺⁺® is a protective copper fungicide/bactericide controlling a wide range of diseases. It features the smallest, most consistent particle size of any water-dispersible granule (WDG) copper formulation for better coverage and disease control with a lower environmental load.

KEY USES

Ornamentals*

*Not for use in California

KEY DISEASES CONTROLLED

Alternaria brown spot, anthracnose, bacterial blight, cercospora, downy mildew, fire blight, phytophthora, powdery mildew, septoria (see label for complete list)

RATE / 100 GAL 0.8 lb
(see label for specific rates)

EPA REG. NO.	55146-115
ACTIVE INGR.	copper hydroxide (46.1%)
FORMULATION	water-dispersible granule
CHEM. FAMILY	inorganic
FRAC NO.	M1 REI 24 hours
PACKAGE SIZE	4 x 10 lb
APPLICATION	spray



Ensemble*

Ensemble™ is a broad-spectrum protectant and systemic fungicide for a variety of root, stem and foliar diseases.

KEY USES

Ornamental plants, including annual and perennial flowers, bedding plants, foliage plants, ground covers, deciduous and evergreen trees, and shrubs

*Ensemble is pending EPA Registration.

KEY DISEASES CONTROLLED

Foliar: aerial blights including alternaria, cylindrocladium, cercospora, myrothecium and phytophthora, botrytis, powdery and downy mildew

Drench: pythium, phytophthora, rhizoctonia, thielaviopsis, cylindrocladium, sclerotinia, fusarium (see label for complete list)

RATE / 100 GAL 24 – 48 fl oz

EPA REG. NO.	Pending EPA Registration
ACTIVE INGR.	Thiophanate-methyl, Fludioxonil, Azoxystrobin & Metalaxyl
FORMULATION	suspension concentrate
PACKAGE SIZE	4 x 1 gal
APPLICATION	foliar and soil chemigation such as pressurized drench (flood) system, sprinkler or drip (trickle)



NOTES



FIELD-GROWN NURSERY



GREENHOUSE



OMRI LISTED



WARNING



RESTRICTED-USE



CONTAINER-GROWN NURSERY



EDIBLES



DANGER



CAUTION



AQUATIC

Phostrol®

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

KEY DISEASES CONTROLLED

Bacterial blight, downy mildew, fire blight, phytophthora and pythium spp.
(see label for complete list)

RATE Consult label

EPA REG. NO. 55146-83

ACTIVE INGR. mono- and dibasic sodium, potassium and ammonium phosphites (4.17 lb/gal)

FORMULATION liquid

CHEM. FAMILY phosphite

FRAC NO. 33 **REI** 4 hours

PACKAGE SIZE 2 x 2.5 gal

APPLICATION spray, drench



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

KEY DISEASES CONTROLLED

Botrytis, cercospora (see label for complete list)

RATE Consult label

EPA REG. NO. 1001-77

ACTIVE INGR. mancozeb (75%)

FORMULATION dry flowable

CHEM. FAMILY dithiocarbamate

FRAC NO. M3 **REI** 24 hours

PACKAGE SIZE 6 x 6 lb

APPLICATION spray



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, poinsettia, brassica leafy vegetables, leafy vegetables, herbs

KEY DISEASES CONTROLLED

Aerial blight, alternaria leaf spot and blight, botrytis blight, black root rot, cercospora leaf spot, cylindrocladium stem and root rot, fusarium stem and root rot, rhizoctonia stem and root rot, septoria leaf spot, southern blight
(see label for complete list)

RATE / 100 GAL 1 - 4 fl oz

EPA REG. NO. 228-723

ACTIVE INGR. fludioxonil (40.3%)

FORMULATION liquid

CHEM. FAMILY phenylpyrrole

FRAC NO. 12 **REI** 12 hours

PACKAGE SIZE 8 x 1 pt

APPLICATION spray, drench



Strider™

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

KEY USES

Nursery and outdoor ornamentals

KEY DISEASES CONTROLLED

Cercospora, powdery mildew
(see label for complete list)

RATE Consult label

EPA REG. NO. 228-623

ACTIVE INGR. propiconazole (1.3 lb/gal)

FORMULATION liquid

CHEM. FAMILY triazole

FRAC NO. 3 **REI** 12 hours

PACKAGE SIZE 2.5 gal (2/case)

APPLICATION spray



NOTES



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This guide is intended to provide a product overview. See product labels for complete details and labeled use listing. For the latest version, please visit our website.



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

Anthrachnose, 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 (3.6 lb/gal)
FORMULATION	liquid suspension
CHEM. FAMILY	triazole
FRAC NO.	3 REI 12 hours
PACKAGE SIZE	5 x 1 gal
APPLICATION	spray



Tourney® EZ

A next-generation liquid formulation, Tourney® EZ controls a broad spectrum of tough diseases on flowering and foliage plants and ornamental trees and shrubs, singlehandedly saving time and money. As one of the most active fungicides on the market, it's your go-to solution as a powerful, broad-spectrum disease inoculum.

KEY DISEASES CONTROLLED

Anthrachnose, botrytis, apple scab, powdery mildew, rust, leaf spots, conifer blights and damping off/ stem and root rots (see label for complete list)

RATE / 100 GAL 1.0 – 4.0 fl oz (orn)

EPA REG. NO.	59639-257
ACTIVE INGR.	metconazole (4.0 lbs/gal)
FORMULATION	suspension concentrate
CHEM. FAMILY	triazole
FRAC NO.	3 REI 12 hours
PACKAGE SIZE	4 x 1 gal
SIGNAL WORD	caution



*Not for ornamental use in California.



FIELD-GROWN NURSERY



GREENHOUSE



OMRI LISTED



WARNING



RESTRICTED-USE



CONTAINER-GROWN NURSERY



EDIBLES



DANGER



CAUTION



AQUATIC

Ensemble™

Your First Response

Stop Disease Before Time Is Up



BROAD-SPECTRUM & SYSTEMIC
Four active ingredients



FOLIAR & SOIL PATHOGENS
Four modes of action



FIRST RESPONSE SOLUTION
Curative & protectant activity



Ensemble™ fungicide is your first response when crop production is threatened. Alleviate the initial uncertainty of fungal diagnosis, including where multiple pathogens strike.

nufarm.com/usturf/ensemble

Ensemble is pending EPA registration. Always read and follow label instructions.

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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

KEY WEEDS CONTROLLED

More than 190 broadleaf weeds including: chickweed, clover, groundsel, kochia, lambsquarters, mallow, morningglory, pigweed, quackgrass, ragweed, redmaids, spurge, thistle (Canada), yarrow (see label for complete list)

RATE / 1 GAL 0.5 – 2 fl oz
(see label for specific rates)

EPA REG. NO.	228-743
ACTIVE INGR.	glufosinate ammonium (2.34 lb/gal)
FORMULATION	soluble liquid
CHEM. FAMILY	phosphinic acid
HRAC NO.	10 REI 12 hours*
PACKAGE SIZE	4 x 64 fl oz squeeze-and-measure, 4 x 1 gal, 2 x 2.5 gal, 30 gal, 265 gal
APPLICATION	spray



Nufarm Diquat SPC 2L

Nufarm Diquat SPC 2L herbicide provides non-selective control of terrestrial and aquatic weeds on contact. On land it quickly strikes down grass and broadleaf weeds within hours of the application. In aquatics it remains active while it is spread throughout the water body for broad-spectrum weed control.

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 (3.73 lb/gal)
FORMULATION	liquid
CHEM. FAMILY	bipyridylum
HRAC NO.	22 REI 24 hours
PACKAGE SIZE	4 x 1 gal, 2 x 2.5 gal, 250 gal
APPLICATION	spray



GRANULAR HERBICIDE

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

KEY WEEDS CONTROLLED

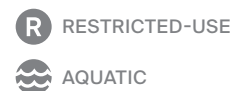
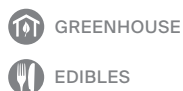
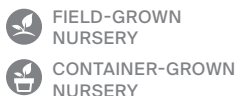
Bittercress, chickweed, common groundsel, liverwort, oxalis, Palmer amaranth, spiny amaranth, spurge (see label for complete list)

RATE / ACRE 150 lb
RATE / 1000 SQ FT 3.5 lb
(see label for specific rates)

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
APPLICATION	broadcast



NOTES



Selective Herbicide

Certainty®

Certainty® Herbicide promises proven selective, post-emergent weed control in ornamentals. Plus, it's formulated with unique activity for flexible and safe use on a wide range of warm-season native grasses.

KEY USES

Woody ornamentals, perennial ground covers, and warm-season ornamental grasses

KEY WEEDS CONTROLLED

Barley (little), bedstraw (catchweed), bluegrass (annual, bulbous, roughstalk), burweed (lawn), buttercup, chamber bitter, chickweed (common), clover (white), crowfootgrass, dandelion, fescue (tall), garlic (wild), johnsongrass, kyllinga (false green, fragrant, green), lovegrass, mustard (wild), nutsedge (purple, yellow), pennycress (field), ryegrass (perennial), sedge (globe), sedges (annual), shepherd's-purse, switchgrass (see label for complete list)

RATE / ACRE 1.25 oz

EPA REG. NO. 59639-226

ACTIVE INGR. sulfosulfuron (75%)

FORMULATION water-dispersible granule

CHEM. FAMILY sulfonylurea

HRAC NO. 2 **REI** 12 hours

PACKAGE SIZE 10 x 1.25 oz

SIGNAL WORD caution



Envoy Plus®

Envoy 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

KEY WEEDS CONTROLLED

Annual and perennial grasses (see label for complete list)

RATE / 1000 SQ FT 0.4 - 0.8 fl oz
(see label for specific rates)

EPA REG. NO. 59639-132

ACTIVE INGR. clethodim (0.97 lb/gal)

FORMULATION liquid

CHEM. FAMILY cyclohexanedione

HRAC NO. 1 **REI** 24 hours

PACKAGE SIZE 4 x 1 gal

APPLICATION spray



PRE-EMERGE WITH RESIDUAL CONTROL

SureGuard® EZ

SureGuard® EZ delivers lasting pre-emerge and residual control. Plus, it enhances the speed and spectrum of glyphosate when used as a tank mix partner, even on resistant weeds.

KEY USES

Aquatic, bareground, non-bearing fruit and nut trees and vines, non-crop areas and around buildings, fencerows, gravel surfaces, driveways, ground mats and other similar sites

KEY WEEDS CONTROLLED

Bittercress, chickweed, common groundsel, oxalis, spurge (see label for complete list)

RATE / ACRE 8.0 - 12.0 fl oz

EPA REG. NO. 59639-260

ACTIVE INGR. flumioxazin (4.0 lbs/gal)

FORMULATION liquid

CHEM. FAMILY N-phenylphthalimide

HRAC NO. 14 **REI** 12 hours

PACKAGE SIZE 8 x 1 pt, 4 x 64 oz tip-n-measure

SIGNAL WORD caution



SureGuard® Xtra

SureGuard® Xtra is a more powerful knockdown solution with improved lasting pre-emerge residual control (up to 8 months) of grass and broadleaf weeds and post-emerge weeds up to 2" in height.

KEY USES

Outdoor production nurseries and landscape beds around residential or commercial properties, parks, golf courses, schools on bare ground and hardscape areas

KEY WEEDS CONTROLLED

Broad-spectrum pre-emerge control on over 100+ weeds, including tough-to-control broadleaf weeds, grasses and kyllinga (see label for complete list)

RATE / ACRE 20 fl oz

EPA REG. NO. 59639-237

ACTIVE INGR. flumioxazin (1.34 lb / gal)
pyroxasulfone (1.7 lb / gal)

FORMULATION suspension concentrate

CHEM. FAMILY N-phenylphthalimide
isoxazoline

HRAC NO. 14 & 15 **REI** 12 hours

PACKAGE SIZE 4 x 1 gal

SIGNAL WORD caution



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STRONGER LONGER CONTROL

SureGuard[®] Xtra HERBICIDE

Dual-active SureGuard[®] Xtra Herbicide goes the extra mile. Knock down grassy and broadleaf weeds up to 2" and gain pre-emerge residual control for up to eight months across multiple container and field-grown ornamental uses.



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Tame® is an EPA Restricted-Use Pesticide. Always read and follow label directions.

*US EPA approval of final label for Ensemble™ is pending at the time of this publication. Ensemble™ is not currently registered for sale or use in the United States.

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