

DELIVERING MORE SOLUTIONS FOR GREENHOUSE VEGETABLE CROPS.

Nufarm offers one of the largest greenhouse product lines in the industry, including vegetable crop protection. Find the solutions you need all in one place, from the people you trust.

[Nufarm.com/USTurf](https://www.nufarm.com/USTurf)



Grow a better tomorrow

INSECTICIDES

DiPel® PRO DF

BIOLOGICAL INSECTICIDE DRY FLOWABLE



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

EPA REG. NO.	73049-39
ACTIVE INGR.	Bacillus thuringiensis (54%)
REI	4 hours
FORMULATION	dry flowable
APPLICATION	spray
SIGNAL WORD	caution
PACKAGE SIZE	1 lb case (30/case)

KEY USES
Edibles, herbs and spices, vegetables

KEY PESTS CONTROLLED
Lepidopterous worms (armyworms, loopers, budworms, leafrollers and many other worms)

Distance®

INSECT GROWTH REGULATOR

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.

EPA REG. NO.	59639-96
ACTIVE INGR.	pyriproxyfen (11.23%)
REI	12 hours
FORMULATION	emulsifiable concentrate
APPLICATION	spray, drench, sprench
SIGNAL WORD	caution
PACKAGE SIZE	1 qt tip-n-pour (4/case)

KEY USES
Fruiting vegetables

KEY PESTS CONTROLLED
Fungus gnats, leafminers, shore flies, whiteflies

Gnatrol® WDG

BIOLOGICAL LARVICIDE



Gnatrol® WDG offers highly selective, effective control of fungus gnat larvae, especially for those growers concerned with worker safety and resistance management. Plus, the broad label includes ornamentals, bulb crops, bedding plants and vegetables.

EPA REG. NO.	73049-56
ACTIVE INGR.	Bacillus thuringiensis (37.4%)
REI	4 hours
FORMULATION	water-dispersible granule
APPLICATION	chemigation, drench, drip
SIGNAL WORD	caution
PACKAGE SIZE	16 lb pail

KEY USES
Edibles, vegetable plants

KEY PESTS CONTROLLED
Fungus gnat larvae



Mallet® 2F T&O

Mallet® 2F T&O is the 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.

EPA REG. NO.	228-695
ACTIVE INGR.	imidacloprid (21.4%)
REI	12 hours
FORMULATION	liquid
APPLICATION	spray, drench
SIGNAL WORD	caution
PACKAGE SIZE	1 gal (4/case), 2.5 gal (2/case)

KEY USES
Edibles, fruit and nut trees, ornamental and vegetable plants in greenhouse, nursery and interior plantscapes

KEY PESTS CONTROLLED
Aphids, leafminers, mealybugs, scales, whiteflies

Safari®

20 SG INSECTICIDE

Safari® 20 SG is a super-systemic insecticide that quickly knocks down a broad spectrum of pests – including Q- and B-biotype whiteflies – with unsurpassed residual control.

EPA REG. NO.	86203-11-59639
ACTIVE INGR.	dinotefuran (20%)
REI	12 hours
FORMULATION	water-soluble granule
APPLICATION	spray
SIGNAL WORD	caution
PACKAGE SIZE	12 oz bottle (16/case), 3 lb bottle (4/case)

KEY USES
Vegetable transplants grown in enclosed structures

KEY PESTS CONTROLLED
Aphids, leafminers, mealybugs, thrips, whiteflies (including Q- and B-biotypes)

TetraSan®

5 WDG MITICIDE/OVICIDE

With excellent translaminar movement and outstanding residual activity, TetraSan® 5 WDG affects spider mites at all life stages without harming most beneficial insects.

EPA REG. NO.	59639-108
ACTIVE INGR.	etoxazole (5%)
REI	12 hours
FORMULATION	water-dispersible granule
APPLICATION	spray
SIGNAL WORD	caution
PACKAGE SIZE	2 oz WSP packet (8/case)

KEY USES
Indoor grown tomatoes

KEY PESTS CONTROLLED
Spider mites

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 and residual foliar spray for indoor and outdoor ornamentals (includes greenhouse and interior plantscapes).

EPA REG. NO.	8033-106-1001
ACTIVE INGR.	acetamiprid (8.5%)
REI	12 hours
FORMULATION	liquid
APPLICATION	spray
SIGNAL WORD	caution
PACKAGE SIZE	1 qt (4/case), 1 gal (4/case)

KEY USES
Cucurbit vegetables, edibles, fruiting vegetables, vegetables

KEY PESTS CONTROLLED
Aphids, leafminers, mealybugs, scales, thrips, whiteflies

NOTES

3336[®] EG / 3336[®] F

3336 products work through broad-spectrum systemic activity to deliver preventive and curative control to many foliar, stem, and root diseases on a wide range of commercially important plants.

EPA REG. NO.	EG 1001-89 F 1001-69
ACTIVE INGR.	thiophanate-methyl EG (50%) F (41.25%)
REI	12 hours
FORMULATION	EG water-dispersible granule F flowable
APPLICATION	spray, drench, dip
SIGNAL WORD	caution
PACKAGE SIZE	EG 5 lb (4/case) F 1 qt (12/case), 2.5 gal (2/case)

KEY USES	Vegetable transplants (cucurbits and beans, dry and succulent)*
KEY DISEASES CONTROLLED	Anthracnose, Botrytis, Cercospora, powdery mildew, Rhizoctonia, Thielaviopsis (black root rot)
	*not labeled for 3336 F

Agri-Mycin[®] 50

Agri-Mycin[®] 50 is 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.

EPA REG. NO.	55146-98
ACTIVE INGR.	streptomycin sulfate (65.8%)
REI	12 hours
FORMULATION	wettable powder
APPLICATION	spray, dip
SIGNAL WORD	caution
PACKAGE SIZE	3 lb bag

KEY USES	Ornamentals, peppers, tomatoes
KEY DISEASES CONTROLLED	Bacterial spot, bacterial stem rot (dieffenbachia cuttings), bacterial wilt (chrysanthemums), fire blight, leaf rot (philodendron)

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.

EPA REG. NO.	55146-151
ACTIVE INGR.	basic copper sulfate (27.1%)
REI	24 hours (greenhouse), 48 hours (all other uses)
FORMULATION	flowable
APPLICATION	spray
SIGNAL WORD	caution
PACKAGE SIZE	1 gal (4/case)

KEY USES	Crucifers, cucurbits, herbs, peppers, tomatoes, vegetable crops
KEY DISEASES CONTROLLED	Anthracnose, Botrytis, downy mildew, leaf spot, powdery mildew, scab, Septoria leaf spot, Volutella leaf blight

Protect[™] DF

Protect[™] DF provides excellent control of a variety of important plant diseases in an easy-to-use, dry-flowable formulation.

EPA REG. NO.	1001-77
ACTIVE INGR.	mancozeb (75%)
REI	24 hours
FORMULATION	dry-flowable
APPLICATION	spray
SIGNAL WORD	caution
PACKAGE SIZE	2.5 gal (2/case), 250 gal

KEY USES	Vegetable seedlings and transplants (including cucumbers and tomatoes)
KEY DISEASES CONTROLLED	Anthracnose blights, Botrytis blights/gray mold, Cephalosporium leaf spot, downy mildew, Fusarium leaf spot/blight, Ovipulina blight, Rhizoctonia, rust diseases, scabs

Affirm[™] WDG

Affirm[™] WDG, an EPA registered biopesticide, is a concentrated, easy-to-mix water-dispersible granule formulation that delivers excellent disease control.

EPA REG. NO.	68173-3-1001
ACTIVE INGR.	polyoxin D zinc salt (11.3%)
REI	4 hours
FORMULATION	water-dispersible granule
APPLICATION	spray, drench
SIGNAL WORD	caution
PACKAGE SIZE	2.4 lb package (3/case)

KEY USES	Cucurbit vegetables, fruiting vegetables, ginseng, herbs
KEY DISEASES CONTROLLED	Anthracnose, apple scab, black root rot, Botrytis, Curvularia, early blight, gray mold, leaf spot, petiole rot, powdery mildew, Rhizoctonia, scabs

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

Phostrol[®]
AGRICULTURAL FUNGICIDE

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

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

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.

Spirato[®] GHN

Through all stages of production, Spirato[®] GHN protects against foliar, stem and root diseases with low use rates. This easy-to-use liquid fungicide demands the number one spot in rotation for disease management.

EPA REG. NO.	228-723
ACTIVE INGR.	fludioxonil (40.3%)
REI	12 hours
FORMULATION	liquid
APPLICATION	spray, drench
SIGNAL WORD	caution
PACKAGE SIZE	1 pt (8/case)

KEY USES	More than 45 ornamental species, brassica, leafy vegetables, herbs
KEY DISEASES CONTROLLED	Aerial blight, Alternaria leaf spot and blight, Botrytis, black root rot, Cercospora, Cylindrocladium stem/root rot, Fusarium stem/root rot, Rhizoctonia, Septoria leaf spot, Southern blight

NOTES

PROVEN DEFENSE FOR GREENHOUSE & NURSERY

DISEASE MATRIX	3336 [®] EG 3336 [®] F	AFFIRM [™] WDG [†]	AGRI-MYCIN [®] 50	CUPROXAT [®] FL	SPIRATO [®] GHN	PHOSTROL [®]	PROTECT [™] DF
Alternaria	★★	★★★★	N/A	★★★★	★★★★	N/A	★★★★
Anthracnose	★★★	★★★★	N/A	★★	★★★★	N/A	★★★★
Aschochyta Blights	★★★★	★★★★	N/A	N/A	N/A	N/A	★★★★
Bacteria	N/A	N/A	★★★	★★★★	N/A	N/A	★★★★
Bacteria Blight <i>Xanthomonas campestris</i>	N/A	N/A	★★★	★★★★	N/A	N/A	★★★★
Rose Black Spot <i>Diplocarpon</i>	★★★	★★★★	N/A	★★★★	N/A	N/A	★★★★
Botrytis	★★★★	★★★★	N/A	★★★★	★★★★	N/A	★★★★
Cercospora	★★★★	N/A	N/A	★★	★★★★	N/A	★★★★
Curvularia	★★	★★★★	N/A	N/A	N/A	N/A	★
Cylindrocladium	★★★	★★★★	N/A	N/A	★★★★	N/A	★★
Downy Mildew	N/A	★★	N/A	★★★★	N/A	★★★★	★★★★
Drechslera Ink Spot	★★	★★★★	N/A	N/A	N/A	N/A	★★
Fusarium	★★★	★	N/A	N/A	★★★★	N/A	N/A
Helminthosporium Leaf Spot	★★	★★★★	N/A	N/A	N/A	N/A	★★
Leaf Spot/Blight	★★★	★★★★	N/A	★★★★	N/A	N/A	★★★★
Phytophthora	N/A	N/A	N/A	N/A	N/A	★★★	★
Powdery Mildew	★★	★★★★	N/A	★★★★	N/A	N/A	N/A
Pythium	N/A	N/A	N/A	N/A	N/A	★★★	N/A
Rhizoctonia Leaf	★★★	★★★★	N/A	N/A	★★★★	N/A	★★★★
Rhizoctonia Root/Crown	★★★	★★★★	N/A	N/A	★★★★	N/A	★
Rusts	★★★★	N/A	N/A	★★★★	N/A	N/A	★★★★
Thielaviopsis	★★★	★★★★	N/A	N/A	★★★★	N/A	★
Scabs <i>Fusicladium, Venturia</i>	★★★★	★★★★	N/A	★★★★	N/A	N/A	★★★★

RE-ENTRY INTERVAL (hours)	12	4	12	24/48	12	4	24

INSECT MATRIX	DIPEL [®] PRO DF	DISTANCE [®] IGR	GNATROL [®] WDG	MALLET [®] 2F T&O	SAFARI [®] 20 SG	TETRASAN [®] 5 WDG	TRISTAR [®] 8.5 SL
MODE OF ACTION	11A	7C	11A	4A	4A	10B	4A
Adelgids	N/A	N/A	N/A	★★★★	★★★★	N/A	★★★★
Ants (imported red fire ants)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aphid	N/A	★	N/A	★★★★	★★★	N/A	★★★★
Bagworms	N/A	N/A	N/A	N/A	★★	N/A	N/A
Beetles	N/A	N/A	N/A	★★★★	★★	N/A	★★★★
Borers	N/A	N/A	N/A	★★★★	★★★★	N/A	N/A
Fungus gnat	N/A	★★★★	★★★★	N/A	★★★★	N/A	★★
Lacebugs	N/A	N/A	N/A	★★★★	★★★★	N/A	N/A
Leafhopper	N/A	N/A	N/A	★★★★	★★★★	N/A	★★★★
Leafminer	N/A	★★★★	N/A	★★★★	★★★★	N/A	★★★★
Lepidopterous worms (caterpillars)	★★★★	N/A	N/A	N/A	N/A	N/A	★★
Mealybug	N/A	★	N/A	★★★★	★★★★	N/A	★★★★
Psyllids	N/A	N/A	N/A	★★★★	★★★★	N/A	★★★★
Scale, armored	N/A	★★	N/A	★	★★★★	N/A	★★★★
Scale, soft	N/A	★★★★	N/A	★★	★★★★	N/A	★★★★
Shore fly	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
Tarsonemid mite	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Thrip	N/A	N/A	N/A	★	★	N/A	★★★★
Whitefly	N/A	★★★★	N/A	★★★★	★★★★	N/A	★★★★

RE-ENTRY INTERVAL (hours)	4	12	4	12	12	12	12

† CLEARY CHEMICAL, LLC IS A WHOLLY OWNED SUBSIDIARY OF NUFARM.

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



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