

GROWING TIPS

LIQUID EQUIVALENT TABLE				
100 gal.	25 gal.	12.5 gal.	5 gal.	1 gal.
2 gal.	2 qts.	1 qt.	12-7/8 oz.	2-1/2 oz.
1 gal.	1 qt.	1 pt.	6-1/2 oz.	1-1/4 oz.
2 qts.	1 pt.	8 oz.	3-1/4 oz.	5/8 oz.
1 qt.	1/2 pt.	4 oz.	1-9/16 oz.	5/16 oz.
1-1/2 pts.	6 oz.	3 oz.	1-1/4 oz.	1/4 oz.
1 pt.	4 oz.	2 oz.	7/8 oz.	3/16 oz.
8 oz.	2 oz.	1 oz.	7/16 oz.	1/2 tsp.
4 oz.	1 oz.	1/2 oz.	1/4 oz.	1/4 tsp.

SOLID EQUIVALENT TABLE				
100 gal.	25 gal.	12.5 gal.	5 gal.	1 gal.
4 oz.	1 oz.	1/2 oz.	3/16 oz.	1/4 tsp.
8 oz.	2 oz.	1 oz.	3/8 oz.	1/2 tsp.
1 lb.	4 oz.	2 oz.	7/8 oz.	1 tsp.
2 lbs.	8 oz.	4 oz.	1-3/4 oz.	2 tsp.
3 lbs.	12 oz.	6 oz.	2-3/8 oz.	2-2/5 tsp.
4 lbs.	1 lbs.	8 oz.	3-1/4 oz.	3-4/5 tsp.
5 lbs.	1-1/4 lbs.	12 oz.	4 oz.	4-4/5 tsp.

USE OF MATERIAL ON SMALL AREAS

LIQUID EQUIVALENT TABLE		
Rate/Acre	Rate/1000 Sq. Ft.	Rate/100 Sq. Ft.
1 pt.	3/4 tbsp.	1/4 tsp.
1 qt.	1-1/2 tbsp.	1/2 tsp.
1 gal.	6 tbsp.	2 tsp.
25 gals.	4-1/2 pts.	1 cup
50 gals.	4-1/2 qts.	1 pt.
100 gals.	9 qts.	1 qt.
200 gals.	4-1/2 gals.	2 qts.
300 gals.	6-3/4 gals.	3 qts.
400 gals.	9 gals.	1 gal.
500 gals.	11-1/4 gals.	1-1/4 gals.

SOLID EQUIVALENT TABLE		
Rate/Acre	Rate/1000 Sq. Ft.	Rate/100 Sq. Ft.
1 lb.	3/4 tbsp.	1/4 tsp.
3 lbs.	2-1/4 tbsp.	3/4 tsp.
4 lbs.	3 tbsp.	1 tsp.
5 lbs.	4 tbsp.	1-1/4 tsp.
10 lbs.	1/2 cup	2 tsp.
100 lbs.	2-1/4 lbs.	1/4 lb.
200 lbs.	4-1/2 lbs.	1/2 lb.
300 lbs.	6-3/4 lbs.	3/4 lb.

ENGLISH/METRIC CONVERSION

1 Inch	2.54 centimeters	1 Dry Pint	0.551 liters	1 Cu. Centimeter	0.061 cu. inches
1 Foot	0.3048 meters	1 Dry Quart	1.101 liters	1 Cu. Meter	35.315 cu. feet
1 Yard	0.9144 meters	1 Dry Peck	8.810 liters	1 Cu. Meter	1.307 cu. yards
1 Mile	1.609 kilometers	1 Dry Bushel	35.238 liters		
				1 Milliliter	0.0338 fl. ounce
1 Sq. Inch	6.4516 sq. centimeters	1 Grain	64.79891 milligrams	1 Liter	2.114 fl. pints
1 Sq. Foot	0.093 sq. meters	1 Gram	1.772 grams	1 Liter	1.056 fl. quarts
1 Sq. Yard	0.836 sq. meters	1 Ounce	28.350 grams	1 Liter	0.2642 fl. gal.
1 Acre	0.4047 hectares	1 Pound	453.59 grams		
1 Sq. Mile	2.590 sq. kilometers	1 Ton (2000 lbs.)	0.907 metric tons	1 Liter	1.814 pints
				1 Liter	0.9082 quart
1 Cu. Inch	16.387 cu. centimeters	1 Centimeter	0.394 inches	1 Liter	0.1134 peck
1 Cu. Foot	0.028 cu. meters	1 Meter	3.281 feet	1 Liter	0.0284 bushel
1 Cu. Yard	0.765 cu. meters	1 Meter	1.093 yards		
		1 Kilometer	0.621 miles	1 Milligram	0.0154 grain
1 Fl. Ounce	29.573 millimeters			1 Gram	0.5643 gram
1 Fl. Pint	0.473 liters	1 Sq. Centimeter	0.155 sq. inches	1 Gram	0.0353 ounce
1 Fl. Quart	0.946 liters	1 Sq. Meter	1.196 sq. yards	1 Gram	0.0022 pound
1 Fl. Gallon	3.785 Liters	1 Hectare	2.471 acres	1 Gram	1.1025 tons
		1 Sq. Kilometer	0.381 miles		

LIQUID CONVERSIONS		
1 pt./100 gal = 1 tsp/gal	1 cup = 8 oz.	1 gallon = 4 qts.
1 qt./100 gal = 2 tsp/gal	= 1/2 pt.	= 8 pts.
	= 16 tbsp.	= 16 cups
1 teaspoon = 1/3 tbsp.	= 48 tsp.	= 128 oz.
= 1/16 oz.	1 quart = 32 oz.	
1 tablespoon = 3 tsp.	= 4 cups	
= 1/2 oz.	= 2 pts.	
	= 64 tbsp	

TEMPERATURE CONVERSIONS
To convert F to C subtract 32 and multiply by 0.55 (ex. 68° F = 22° C)
To convert C to F multiply by 1.8 and add 32 (ex. 60° C = 140° F)
F = Degrees in Fahrenheit
C = Degrees in Celsius (Centigrade)



CHEMICAL MANUFACTURERS CONTACTS

MANUFACTURER NAME	WEBSITE	PHONE
AMVAC	WWW.AMERICAN-VANGUARD.COM	888-462-6822
AQUATROLS	WWW.AQUATROLS.COM	856-537-6003
ARYSTA	www.arysta-na.com	866-761-9397
BASF Corporation	www.basf.com	800-526-1072
Bayer Environmental Sciences	www.bayerprocentral.com	800-331-2867
Becker Underwood	www.beckerunderwood.com	800-232-5907
BioWorks, Inc.	www.bioworksinc.com	800-877-9443
Brandt Consolidated	www.brant-inc.com	217-547-5800
Chemtura Corporation	www.chemtura.com	203-573-2000
Cleary Chemical Corporation	www.clearychemical.com	800-524-1662
Dip 'N Grow, Inc.	www.dipngrow.com	866-347-6476
Dow AgroSciences LLC	www.dowagro.com	800-992-5994
FarmSaver - T/A Quali-Pro	www.farmsaver.com	800-979-8994
FMC Agricultural Products	cropsolutions.fmc.com	800-845-0187
Fuller Systems, Inc.	www.fullersystem.com	781-933-0945
Gowan Company	www.gowanco.com	800-883-1844
GSI Horticultural	www.gsihorticultural.com	541-383-0222
JRM CHEMICALS	WWW.SOILMOIST.COM	800-962-4010
Miller Chemical and Fertilizer Corporation	www.millerchemical.com	717-632-8921
Monsanto Company	www.monsanto.com	314-694-1000
Monterey Lawn and Garden Products, Inc.	www.montereylawnandgarden.com	559-499-2100
MYCOTECH	WWW.MYCOTECH.COM	
Natural Industries, Inc.	www.naturalindustries.com	281-580-1643
OASIS GROWER PRODUCTS	WWW.SMITHERSOASIS.COM	800-321-8286
OHP, Inc.	www.ohp.com	800-659-6745
PBI/GORDON CORP	WWW.PBIGORDON.COM	800.821.7925
PHOENIX		
Phyton Corporation	www.phytoncorp.com	800-356-8733
SePRO Corporation	www.sepro.com	800-419-7779
Syngenta Crop Protection, Inc.	www.syngentacropprotection.com	800-334-9481
The Scotts Company	www.scottsprohort.com	800-492-8255
United Phosphorus, Inc.	www.upi-usa.com	800-438-6071
Valent U.S.A. Corporation	www.valent.com	800-682-5368
Wellmark International	www.wellmarkinternational.com	800-877-6374
Whitmire Micro-gen	www.wmmg.com	800-777-8570

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Formulation Key

DF	Dry Flowable	FM	Flowable Micro-encapsulated	WSB	Water Soluble Bag
E	Emulsified	G	Granular	WSP	Water Soluble Packets
EC	Emulsified Concentrate	LC	Liquid Concentrate	WP	Wettable Powder
ES	Emulsified Suspension	ME	Micro-encapsulated		
FL	Flowable	WDG	Water Dispersible Granules		

**FOR INFORMATION ON OTHER CHEMICALS AND MANUFACTURERS OR TO PRINT OUT LABELS/MSDS SHEETS
PLEASE VISIT THE FOLLOWING WEBSITES:**

www.greenbook.net or www.cdms.net



FUNGICIDE USAGE CHART

	ALUDE	BANNER MAXX	Q/P PROPICONAZOLE 14.3	BANROT 8G	BANROT WP	ACTINO-IRON	CAMELOT	ACTINOVATE SP	CLEARY 3336F	Q/P TM 4.5 F	CLEARY 3336G	Q/P TM/C WDG	CLEARY 3333WP/PROPAK	Q/P TM85 WDG	ALIETTE WDG	COMPASS O	DACONIL ULTREX	Q/P CHLORTHALONIL DF	DECREE 50 WDG	HERITAGE	JUNCTION DF	KOCIDE 2000 T/N/O	MEDALLION 50 WP	CHIPCO 26GT	
Preventative	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X		X	X	
Curative				X	X		X	X	X	X	X	X	X	X		X	X	X				X	X	X	
Systemic	X	X	X	X	X				X	X	X	X	X	X	X	X				X		X		X	
Contact				X	X	X	X	X										X	X	X	X	X		X	X
Foliar Spray	X	X	X				X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drench	X				X			X	X	X		X	X	X	X	X								X	X
Soil Incorporation	X			X		X					X				X									X	
Pre-plant Dip	X							X	X	X		X	X	X											X
Broadcast Application				X		X					X														
Turf	X	X	X			X			X	X	X	X	X	X				X	X		X	X		X	X
Vegetables						X	X	X												X			X		
Ornamentals	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Anthracnose		X	X					X	X	X	X	X	X	X		X	X	X			X	X	X		
Black Spot	X	X	X				X	X	X	X		X	X	X		X					X				
Blossom Blight		X	X				X		X	X		X	X	X			X	X			X		X		
Botrytis							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Damping Off						X		X								X									
Dollar Spot						X		X	X	X	X	X	X	X								X			
Downy Mildew	X						X	X							X	X					X	X	X		
Fusarium		X	X	X	X	X		X	X	X	X	X	X	X	X		X	X			X		X	X	X
Ink Spot		X	X															X	X						X
Leaf Blight		X	X				X	X	X	X		X	X	X			X	X			X				X
Leaf Spot		X	X				X	X	X	X	X	X	X	X		X	X	X			X	X	X	X	X
Phytophthora	X			X	X	X	X	X									X	X					X		
Powdery Mildew		X	X				X	X	X	X		X	X	X		X	X	X	X	X	X	X	X		
Pythium	X			X	X	X		X							X						X	X			
Ray Blight		X	X															X	X						X
Rhizctonia		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
Rust		X	X						X	X		X	X	X		X	X	X			X	X	X		
Sclerotinia		X	X			X		X	X	X	X	X	X	X			X	X			X			X	
Take All Patch		X	X					X	X	X	X	X	X	X											
Thielaviopsis				X	X				X	X	X	X	X	X										X	
Wilts and Blights	X	X	X				X	X	X	X		X	X	X	X		X	X			X	X	X	X	X

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FUNGICIDE BRAND EQUIVALENT COMPARISON CHART

	PHYTON 27	PLANT SHIELD H.C.	PROTECT DF	SPECTRO 90 WDG	STATURE DM	STRIKE 50 WDG	DACONIL WEATHER STIK	Q/P CHLOROTHALONIL 720 SFT	Q/P CHLOROTHALONIL 500 ZN	SUBDUE GR	SUBDUE MAXX	Q/P MEFENOXAM 2EC	TERRACLOR 400	TERRACLOR 75 WP	TERRAGUARD 50W	TRUBAN 25 EC	TRUBAN 30WP	ZEROTOL	ZYBANWSB
Preventative	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
Curative	X		X	X		X	X	X	X	X	X			X	X	X	X	X	X
Systemic					X	X				X	X	X							X
Contact	X	X	X	X			X	X	X					X	X	X	X	X	X
Foliar Spray	X	X	X	X	X	X	X	X	X						X			X	X
Drench		X			X						X	X	X	X	X	X	X	X	
Soil Incorporation										X	X	X	X	X			X		
Pre-plant Dip	X	X											X		X			X	
Broadcast Application										X			X						
Turf			X	X			X	X	X	X	X	X		X				X	
Vegetables		X											X	X					
Ornamentals	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Anthracnose	X		X	X			X	X	X									X	X
Black Spot	X		X	X															X
Blossom Blight			X				X	X	X										X
Botrytis	X		X	X			X	X	X				X	X	X				
Damping Off			X								X	X	X	X		X	X		
Dollar Spot			X															X	
Downy Mildew	X		X		X														
Fusarium		X	X	X			X	X	X						X			X	
Ink Spot			X				X	X	X										
Leaf Blight			X	X		X	X	X	X										X
Leaf Spot			X	X		X	X	X	X					X	X			X	X
Phytophthora	X		X		X		X	X	X	X	X	X				X	X	X	
Powdery Mildew	X			X		X	X	X	X						X				X
Pythium		X	X							X	X	X				X	X	X	
Ray Blight				X			X	X	X										
Rhizctonia	X	X	X	X			X	X	X				X	X	X			X	X
Rust	X		X	X		X	X	X	X						X				X
Sclerotinia			X	X		X	X	X	X				X	X					X
Take All Patch																			
Thielaviopsis		X													X				
Wilts and Blights			X	X			X	X	X					X					

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FUNGICIDE BRAND EQUIVALENT COMPARISON CHART

FUNGICIDES			
BRAND NAME	BRAND ALTERNATIVE	SUMMARY	PAGE REFERENCE
26/36 FUNGICIDE™ (CLEARY)	TM + IP E-PRO (NUFARM)	Contact and systemic control of nearly every fungal disease with long-lasting residual activity.	13
ALIETTE® SDG (BAYER CROP)	FOSETYL- AL 80WDG (QUALI-PRO®)	Controls downy mildew, fire blight, bacterial blight and botrytis.	11
ALUDE (CLEARY)	MAGELLAN® (NUFARM)	For the control of diseases in ornamentals including Pythium and Phytophthora rots or blights, fire blight, and downy mildew.	11
BANNER MAXX (SYNGENTA)	PROPICONAZOLE E-PRO (NUFARM)	Preventive and systemic activity to control leaf and flower blights, powdery mildew and rust in ornamentals as well as oak wilts, Dutch elm disease, and sycamore anthracnose.	11
CHIPCO® 26GT (BAYER)	IPRODIONE E-PRO (NUFARM)	For proven control of Botrytis, Fusarium, Rhizoctonia and many other diseases in ornamentals.	12
CLEARY® 3336® (CLEARY)	T-METHYL E-PRO 50 WSB (NUFARM)	Formulation designed specifically for greenhouse, nursery, landscape and interior uses.	12
CLEARY® 3336® F (CLEARY)	T-METHYL E-PRO 4.5F (NUFARM)	Convenient flowable formulation protects new growth against wide range of diseases including powdery mildew and brown spot.	12
CLEARY® 3336® G (CLEARY)	T-METHYL E-PRO GRANULAR (NUFARM)	Protects new growth from soil-borne diseases including Botrytis, Fusarium, Sclerotinia and more.	13
DACONIL ULTREX® (SYNGENTA CROP)	CHLOROTHALONIL 720 SFT (QUALI-PRO®)	Controls leaf spots/foliar blights, cylindrocladium, stem canker, phytophthora leaf blight, powdery mildews & rusts.	13
DACONIL WEATHER-STICK® (SYNGENTA CROP)	CHLOROTHALONIL DF® (QUALI-PRO®)	Controls leaf spots/foliar blights, cylindrocladium, stem canker, phytophthora leaf blight, powdery mildews scabs and more.	14
EAGLE® 20 EW	MYCLOBUTANIL 20WE T&O (QUALI PRO)	Systemic protectant and curative fungicide for disease control in turf grass, landscape, greenhouse, nursery ornamentals.	14
NONE	FIRE WALL™ (NUFARM)	Time-tested tool for control of bacterial stem rot, bacterial leaf rot, and crown gall in ornamentals.	14
SPECTRO TM 90 WDG® (CLEARY)	TM + CTN E-PRO 90 WDG (NUFARM)	Two modes of action offer reliable, consistent protection against a wide range of diseases in ornamental uses.	16
SUBDUE® MAXX® (SYNGENTA CROP)	MEFENOXAM 2 AQ (QUALI-PRO®)	Controls damping off, root/stem rot diseases caused by phytophthora and pythium.	16

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ACTINO-IRON®

REI: 4 Hrs.



Pythium, Verticillium, Phytophthora, Rhizoctonia, Rusarium and other root decay fungi. **Crops:** Greenhouse, Nursery, Turf, Agricultural

uses. Including vegetables and herbs **Rates:** 5 lb per cu. yd. (Soil Incorporation); 3 oz. per cu. ft. (Top Dress) **Application:** Soil Incorporation or Top Dress. **SW:** Caution **AI:** 1.3% Streptomyces lydicus and Iron **Mfr:** Natural Industries, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
23512001	50 lb. bag	\$85.09	\$72.97 10/case

ACTINOVATE® SP

REI: 4 Hrs.



Spray suppresses alternate botrytis and powdery mildew. Drench protective for pythium, phytophthora, rhizoctonia, botrytis and powdery mildew. ORM approved. **Crops:** Greenhouse,

ornamentals, interiorscapes, nurseries, vegetables and herbs. **Rates:** 6 - 12 oz. per 100 gal. (Spray); 4 - 6 oz. per 100 gal. (Drench). **Application:** Foliar Spray or Drench. **SW:** Caution **AI:** 0.0371% Streptomyces lydicus. **Mfr:** Natural Industries, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
23512006	18 oz. container	\$90.09	\$81.08 12/case

ALIETTE® WDG

REI: 12 Hrs.

Downy mildew, fire blight, bacterial blight and botrytis. **Crops:** Turf, ornamentals and bedding plants. **Rates:** 2.5 - 5.0 lb. per 100 gal. (Spray); 4 - 6 oz. per 100 gal. (Drench). **Application:** Irrigation, Spray, Drench, Dip and Soil Incorporation. **SW:** Caution **AI:** 80% Aluminumtris **Mfr:** Bayer Crop Science

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-10011	5lb. container	\$151.21	\$136.09 4/case

QUALI-PRO FOSETYL-AL 80WDG

SAVE!

REI: 12 Hrs.



Brand equivalent product: **Aliette WDG** Diseases caused by phythium, phytophthora, downy mildew, fire blight and numerous other fungal diseases. **Crops:** Ornamentals, bedding plants and conifer nurseries **Rates:** 2.5-5 lb per 100 gal spray, drench 0.4-0.8 lb per 100 gal **Application:** Spray or drench **SW:** Caution **AI:** 80% Aluminum tris **Mfr:** Quali-Pro

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-8135	5.5 lb	\$129.17	\$122.71 4/case

ALUDE™

REI: 4 Hrs.

Bacterial blight, downy mildew, phytophthora, & pythium. **Crops:** Ornamentals, bedding plants, conifers and turf. **Rates:** 1 - 2.5 qts. per 100 gal. (Foliar Spray); 6 - 12 fl. oz. per 100 gal. (Drench); 1 - 2 pts. per cu. yd. (Soil Incorporation); 0.5 fl. oz. per gal., 5 - 10 fl. oz. per 100 gal. (Root Dip). **Application:** Foliar Spray, Drench, Soil Incorporation or Bare Root Dip for Transplants. **SW:** Caution **AI:** 45.8% Mono- and Dipotassium salts of Phosphorous Acid. **Mfr:** Cleary Chemical Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1053	2.5 gal. container	\$213.75	\$192.38 2/case

NUFARM MAGELLAN®

SAVE!

REI: 4 Hrs.



Brand equivalent product: **Alude**. Magellan provides both preventative and curative treatments for pythium and yellow turf diseases in a clear, odorless liquid formulation. The active ingredients of Magellan are phosphorous acids that directly inhibit fungal growth by disrupting the phosphorus metabolism within the fungi. This indirectly triggers the plant's own immune defenses to the fungi through cytological action. **Crops:** Ornamentals and bedding plants **Rates:** 1.25 -5 pints per 100 gallons. **Application:** Foliar spray, drench and soil incorporation **AI:** 53.6% Mono and dibasic sodium, potassium and ammonium phosphites. **MFR:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235211202	2.5 gal.	\$146.30	\$138.98 2/case

BANNER MAXX®

REI: 24 Hrs.

Dollar spot, anthracnose, conifer blights, leaf blights/spots, powdery mildew, rust and scab. **Crops:** Turf and ornamentals. **Rates:** 2 - 24 fl. oz. per 100 gal. (Please see label for specific rates). (Soil Incorporation); 3 oz. per cu. ft. (Top Dress) **Application:** Foliar Spray or Broadcast Spray. **SW:** Warning **AI:** 14.3% Propiconazole **Mfr:** Syngenta Professional Products

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1012	1 gal. container	\$412.50	\$371.25 2/case

NUFARM PROPICONAZOLE E-PRO

SAVE!

REI: 24 Hrs.



Brand equivalent product: **Banner Max**. Provides excellent preventive, systemic activity

against many of the worst diseases. In ornamentals and trees, Propiconazole E-Pro 14.3 MEC controls powdery mildews, rusts, leafspots, scabs, and blights. **Crops:** Turf, herbaceous ornamentals, woody ornamentals and nonbearing fruit and nut trees (Nurseries and landscape plantings) **Rates:** 2-24 fl oz per 100 gallons **Application:** Foliar Spray **AI:** 14.3% Propiconazole **MFR:** Nufarm **SW:** Warning

Stock No.	Description	Price/Ea.	Case Price/Ea.
235210402	1 gal.	\$144.80	\$137.56 4/case
235210404	2.5 gal.	\$362.00	\$343.90 2/case

BANROT 8G®

REI: 12 Hrs.

Fusarium, phytophthora, pythium, rhizoctonia and thielaviopsis. **Crops:** Bedding plants, foliage plants, interiorscapes, landscapes, container/bed grown herbaceous and woody ornamentals. **Rates:** 8 - 16 oz. per cu. yd. (Soil Incorporation); 8 - 12 lbs. per 1000 sq. ft. (Broadcast Application); 6 oz. per 100 linear ft. (Side Dress). **Application:** Soil Incorporation, Broadcast Application or Sidedress. **SW:** Caution **AI:** Etridiazole and Thiophanate-Methyl. **Mfr:** The Scotts Company.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1003	40 lb. bag	\$422.14	\$379.93 10/case

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BANROT® 40% WP

REI: 12 Hrs.

Fusarium, phytophthora, pythium, rhizoctonia and thielaviopsis.

Crops: Ornamental and nursery. **Rates:** 4 - 12 oz. per 100 gal. (Please see label for specific rates.) **Application:** Drench **SW:** Danger

AI: Etridiazole and Thiophanate-Methyl. **Mfr:** The Scotts Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1002	2 lb. container	\$79.31	\$71.38 6/case

CAMELOT™

REI: 12 Hrs.

Camelot is a unique copper soap-not an insoluble powder, that gives Camelot the advantage of needing less copper for better control through superior coverage, easier absorption by the disease pathogen and better foliar adherence.: Camelot controls a broad range of bacterial and fungal pathogens: Bacterial Pathogens - Bacterial Blight, Bacterial Leaf Spot, Erwinia, Fire Blight, Psuedomonas, Xanthomonas Fungal Pathogens - Alternaria, Anthracnose, Botrytis, Cercospora Leaf Spot, Diplodia Tip Blight, Dothistroma Needle Blight, Needle Casts, Downy Mildew, Leaf Gall, Leaf Spot, Phomopsis, Phytophthora Dieback, Powdery Mildew, Rust, Scab, Twig Blight. **Crops:** greenhouses, nurseries, landscapes, vegetables **Rates:** 3 pt per 100 gal water per acre. **Application:** Sprayer **AI:** 58% Copper salts of fatty and rosin acids. **MFR:** Sepro **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1014	1 gal	\$53.20	\$47.89 4/case

CEASE™

REI: 4 Hrs.

Controls common fungal diseases such as Botrytis, Powdery Mildew, Anthracnose and several leaf spot diseases such as Alternaria and Entomosporium. Also controls bacterial diseases such as Pseudomonas, Erwinia, and Xanthomonas spp., as well as soil diseases Rhizoctonia, Pythium, Fusarium and Phytophthora. Can be applied in greenhouse, field, interiorscapes, residential and commercial landscapes and shade house environments on a wide array of ornamentals including bedding plants, potted plants, cut flowers, tropical foliage and container grown trees, shrubs, and vegetables grown under cover. **Rates:** 2-8 qts per 100 gallons. **Application:** Foliar spray and drench. **AI:** 1.34% Bacillus subtilis. **MFR:** BioWorks **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1180	1 gal.	\$57.23	\$51.51 4/case

CHIPCO® 26GT

REI: 24 Hrs.

Broad Spectrum that controls many Fungal Diseases. **Crops:** Golf course, turf, ornamentals, greenhouse, and nurseries. **Rates:** 0.5 - 8 oz. per 1000 sq. ft. **Application:** Foliar Spray, Drench or Dip. **SW:** Caution **AI:** 23.3% Iprodione. **Mfr:** Bayer Crop Science.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1013	2.5 gal. container	\$439.60	\$395.64 2/case

NUFARM IPRODIONE E-PRO

SAVE!

REI: 24 Hrs Turf, 48 Hrs Ornamental



Brand equivalent product:

Chipco 26GT. Controls: Pro Iprodione E-Pro Fungicide provides dependable, proven control of brown patch,

dollar spot, Fusarium, Alternaria and many other diseases in non-residential turf, golf course, and ornamental applications. Its contact and residual activity give it both preventive and curative power, while excellent residual control extends treatment intervals. **Crops:** Turf grasses, ornamental flowering and foliage plants and landscape and conifer nursery sites. **Rates:** Ornamental Apps: Foliar Spray 1-8 fl oz per 1000 sq ft, Drench 13 oz per 100 gals, Dip 1-2 quarts per 100 gallons. Other Applications please refer to label. **Application:** Drench **SW:** Caution **AI:** 23% Iprodione **Mfr:** Nufarm

Stock No.	Description	Price/Ea.	Case Price/Ea.
235210602	2.5 gal.	\$209.61	\$199.13 2/case

CLEARY 3336 F® & 3336 WP

REI: 12 Hrs.

Anthracnose, blossom blight, botrytis & many additional diseases (see label for full list). **Crops:** Turf diseases and the diseases of annuals, perennials, bedding plants, foliage plants, ground covers, deciduous and evergreen trees and shrubs. **Rates:** (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** Thiophanate Methyl, F 41.25%, WP 50%. **Mfr:** Cleary Chemical Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1007	3336 F quart	\$69.00	\$62.10 12/case
235-1005	3336 F 1 gal	\$237.00	\$213.30 4/case
235-10051	3336 F 2.5 gal	\$440.00	\$396.00 2/case
235-1006	3336 WP 2 lb (4x8oz)	\$43.20	\$38.88 6/case

NUFARM T-METHYL E-PRO 4.5F & 50 WSB

REI: 12 Hrs.

SAVE!



Brand equivalent product:

3336 & OHP6672.

Controls: Effectively protects new growth from a wide range of diseases

including powdery mildew, brown spot, brown and zoysia patch, fusarium, rusts and brown rot. **Crops:** Containerized woodies, flowering, herbaceous and tropical foliage, trees and turf **Rates:** 4.5F - 7.5-20 fl oz per 100 gallons, 50WSB - 8-32 oz per 100 gallons. **Application:** Foliar spray, drench and chemigation. **AI:** Thiophanate-Methyl, 4.5F - 46.2%, 50 WSB - 50%. **MFR:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235210204	2.5 gal. 4.5F	\$271.53	\$257.96 2/case
235210206	2 lb. (4x8oz) 50 WSB	\$33.30	\$31.92 6/case

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CLEARY 3336® G

REI: 12 Hrs.

Anthracnose, blossom blight, botrytis & many additional diseases (see label for full list). **Crops:** Turf diseases and the diseases of annuals, perennials, bedding plants, foliage plants, ground covers, deciduous and evergreen trees and shrubs. **Rates:** (Please see label for specific rates.) **Application:** Soil incorporation or topdress **SW:** Caution **AI:** 2.08% Thiophanate Methyl **Mfr:** Cleary Chemical Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-10055	30lb bag	\$61.91	\$55.72 10/case

NUFARM T-METHYL GRANULAR

REI: 12 Hrs.



Brand equivalent product: **3336**. Effectively protects new growth from a wide range of diseases including powdery mildew, brown spot, brown and zoysia patch, fusarium, rusts and brown rot. **Crops:** Containerized woodies, flowering, herbaceous and tropical foliage, trees and turf. **Rates:** Please see label for specific rates. **Application:** Soil incorporation or Top Dress **SW:** Caution **AI:** 2.08% Thiophanate-Methyl **Mfr:** Nufarm

Stock No.	Description	Price/Ea.	Case Price/Ea.
235210208	30 lb.	\$60.00	\$57.00 10/case

CLEARY 26/36

REI: 24 Hrs.

Anthracnose, brown patch, copper spot, dollar spot, leaf spot, red thread, fusarium patch, Ascochyta leaf blight, Zoysia patch, pink and gray snow mold, etc. **Crops:** Cool and warm season grasses and Ornamentals. **Rates:** 13-66 fl oz per 100 gallons **Application:** Spray, drench and drip **SW:** Warning **AI:** Iprodione and thiophanate methyl. **Mfr:** Cleary Chemical

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1182	2.5 gal.	\$536.25	\$482.63 2/case

NUFARM TM+ IP E-PRO



REI: 24 Hrs.



Brand equivalent product: **26/36 Controls:** With its contact and systemic activity, you will see fast results, while long residual control can mean fewer applications per season. This broad-spectrum premix controls nearly every major fungal disease in ornamental, non-residential turf and golf course settings, including botrytis, brown patch, dollar spot, black spot, and fusarium, plus many more. TM + IP E-Pro may also be used in drench applications on ornamentals. **Crops:** Containerized woodies, flowering, herbaceous and tropical foliage and turf. **Rates:** (Please see label for specific rates.) **Application:** Foliar Spray, drench and chemigation. **SW:** Caution **AI:** 19.65% Thiophanate-Methyl+ 19.65% Iprodione. **Mfr:** Nufarm

Stock No.	Description	Price/Ea.	Case Price/Ea.
235210802	1 gal.	\$151.15	\$143.60 4/case

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COMPASS™ O

REI: 12 Hrs.

Anthracnose, botrytis, downy mildew, powdery mildew, rust, scab, septoria leaf spot and more (see label for full list). **Crops:** Woody & herbaceous ornamentals grown in greenhouses, nurseries, interiorscapes, lath & shadehouses. **Rates:** 1 - 4 oz. per 100 gal. (Foliar Spray); 0.5 oz. per 100 gal. (Drench) (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** TriFloxyystrobin **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1017	8 oz. container	\$286.36	\$228.62 12/case

CYGNUS®

REI: 12 Hrs.

Offers economical, effective control of powdery mildew, rusts, scab diseases and leaf spot diseases. In fact, it is one of the top-performing fungicides for powdery mildew on the market. **Crops:** greenhouse, retail nurseries, non-residential landscape ornamentals and nursery crops. **Rates:** 1.0-6.4 fl oz per gallon **Application:** Foliar Spray **SW:** Caution **AI:** 50.0% Kresoxim-methyl **Mfr:** BASF

Stock No.	Description	Price/Ea.	Case Price/Ea.
230-1049	1 lb.	\$235.70	\$212.10/case

DACONIL ULTREX®

REI: 12 Hrs.

Leafspot, brown blight, anthracnose, stem rust, & more. **Crops:** An excellent disease control agent for a broad spectrum of plant diseases. **Rates:** 1 - 5 oz. per 1000 sq. ft. (Turf); 1 - 2.5 lbs. per 100 gal. (Ornamentals) (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Danger **AI:** 82.5% Chlorothalonil **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1010	5 lb. bag	\$61.71	\$67.71 4/case

QUALI-PRO CHLOROTHALONIL DF®



REI: 12 Hrs.



Brand Equivalent product: **Daconil Ultrex®** Leaf spots/foliar blights, flower spots/blights, cylindrocladium, stem canker, phytophthora leaf blight, powdery mildews & rusts. **Crops:** Nursery, greenhouse, turf, trees and golf courses. **Rates:** 1 - 2 lbs. per 100 gal. **Application:** Foliar Spray or Irrigation **SW:** Warning **AI:** 82.5% Chlorothalonil **Mfr:** Quali-Pro

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-8108	5 lb. container	\$46.15	\$43.82 4/case

DACONIL WEATHER STIK®

REI: 12 Hrs.

Broad spectrum agricultural fungicide for leafspots, foliar blights, flower spots/blights, phytophthora leaf blight, powdery mildews, & scab. **Crops:** Sod farms, farms, forests, nurseries, and greenhouses. **Rates:** 1-3/8 pt. per 100 gal. **Application:** Foliar Spray or Irrigation. **SW:** Warning **AI:** 54% Chlorothalonil **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1009	2.5 gal. container	\$242.78	\$218.50 2/case



QUALI-PRO CHLOROTHALONIL 720 SFT

REI: 12 Hrs.



Brand equivalent **Daconil Weatherstick®** Leaf spots/foliar blights, flower spots/blights, stem canker, powdery mildews, scabs and more (see label for full list). **Crops:** Nursery, greenhouse, turf, landscaping and golf courses. **Rates:** 1.1 to 4.1 pts. per 100 gal.

Application: Foliar Spray or Irrigation **SW:** Warning **AI:** 54% Chlorothalonil 720 SFT **Mfr:** Quali-Pro

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-8106	2.5 gal. container	\$146.15	\$138.81 2/case

DECREE® 50WDG

REI: 12 Hrs.

Botrytis and cinerea gray mold. **Crops:** Protectant fungicide for ornamentals grown outdoors and in greenhouses. Labeled for Poinsettias in color. **Rates:** .75 - 1.5 lbs. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 50% Fenhexamid **Mfr:** Arysta LifeScience

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1047	2.5 lb. container	\$257.00	\$231.30 4/case

EAGLE® 20EW

REI: 24 Hrs.

Preventative and curative broad spectrum specialty fungicide for powdery mildew, rust, scab and various leaf spot. **Crops:** Over 100 ornamental plants in greenhouse and field grown plantings. **Rates:** 6-12 fl oz per 100 gallons **Application:** Foliar spray **AI:** 19.7% myclobutanil **Mfr:** Dow AgroScience **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1120	1 pt.	\$54.95	\$49.45 8/case
235-1122	1 gal.	\$351.62	\$316.46 4/case

ENDORSE® WSB

REI: 4 Hrs.

Preventive and curative systemic fungicide for use in controlling or suppressing certain diseases **Crops:** Ornamentals **Rates:** 1.1-2.2 lb per 100 gallons **Application:** Foliar spray **AI:** 2.5% Zinc 5 **Mfr:** Cleary **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1184	4.4 lb.	\$130.00	\$117.00 8/case

FENSTOP™

REI: 12 Hrs.

Fungicide used for the prevention and control of diseases caused by Phythium, Phytophthora and downy mildew of commercially grown ornamentals in greenhouse **Crops:** Greenhouse ornamentals **Rates:** 7-14 fl oz per 50-100 gallons **Application:** Foliar spray and drench **AI:** 44.4% Fenamidone **Mfr:** OHP **SW:** Warning

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1186	1qt.	\$241.40	\$217.25 6/case

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NUFARM FIREWALL™



REI: 12 Hrs.



Brand equivalent **Agri-mycin 17**

Controls: Bacterial wilt, stem rot, leaf rot and crown gall **Crops:** Dieffenbachia

cuttings, chrysanthemums, philodendrons and roses **Rates:** 2-8 fl oz per 50 gallons **Application:** Foliar spray and soaking **AI:** Streptomycin **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235211402	2 lb.	\$42.75	\$40.60 12/case

FUNGAFLOR TR®

REI: 24 Hrs.



Dry Micro Total Release Fungicide preventing and controlling the #1 foliar disease botrytis and others such as alternaria, downy mildew, powdery mildew and rusts.

Crops: Commercial Greenhouses **Rates:** One 2oz can per 1500 sq. ft. **Application:** Fumigator **AI:** 14% Imazal **Mfr:** Whitmire Microgen **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1150	2 oz can	\$8.94	\$8.05 12/case

GREEN SHIELD®

REI: 24 Hrs.



A disinfectant/algaecide. Simple and cost effective way to control fungal, bacterial and viral plant pathogens; bacterial and fungal leaf rots; slime forming fungi and odor causing bacteria and algae. Cost competitive with bleach when considering rates.

Crops: For use in greenhouses, nurseries, landscapes and interiorscapes. **Do Not Use On Plant**

Material! Use on benches, tools, containers, walkways, floors and evaporative cooling pads. **Rates:** Please see label for specific rates. **Application:** See label. **SW:** Danger **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4112	1 gal. container	\$33.25	\$29.92 4/case
235-4115	30 gal. drum	\$850.85	\$765.77 4/pa

HERITAGE®

REI: 4 Hrs.

A broad spectrum preventative fungicide with systemic and curative properties recommended for the control of many important foliar and root diseases (see label for full list). **Crops:** Turf and ornamentals.

Rates: 1 - 4 oz. per 100 gal. (Ornamentals); 0.2 - 0.4 oz. per 1000 sq. ft. (turf) (Please see label for specific rates.) **Application:** Foliar spray or Drench **SW:** Caution **AI:** 50% Azoxystrobin **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1058	4oz	\$120.46	\$108.42 20/case
235-1016	1 lb. container	\$441.87	\$397.68 6/case

HURRICANE™

REI: 48 Hrs.

For control of certain stem and root diseases of ornamentals grown in greenhouses, containers, and other enclosed structures. **Crops:** Ornamentals grown in greenhouses, containers and other enclosed areas. **Rates:** 1-1/2 oz to 1/2-1 gallon **Application:** Foliar spray and drench **AI:** 32% Fludioxonil 16% mefenoxam **Mfr:** Syngenta **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1188	12 oz (8x1.5 oz)	\$184.30	\$165.85 4/case



INSIGNIA®

Certain pathogens causing foliar, aerial, and crown rot diseases, including scab, blights, leaf spots, powdery and downy mildew, anthracnose, and rusts of ornamental plants. Rainfast after one hour, leaves resident for up to 28 days and plant absorption starts immediately. **Crops:** Greenhouses, containers and outdoor nurseries. **Rates:** 2-16 fl oz per 100 gallons **Application:** Foliar spray, spray, drench, dip treatments **AI:** 20.0% Pyraclostrobin **Mfr:** BASF **SW:** see label

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1190	2.4 lb	\$548.57	\$493.71 4/case

KOCIDE® 2000 DF REI: 24 Hrs.

Has advanced copper fungicide/bactericide technology that delivers excellent disease control with all the advantages of a dry-flowable, such as decreased handling and dust exposure. **Crops:** Consult label for crop listings. **Rates:** 1 1/2-3 tbsp per 1000 SF (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Warning **AI:** 53.8% Copper Hydroxide **Mfr:** SePRO Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1027	15 lb. bag	\$103.50	\$93.15 10/case

MEDALLION® 50WP REI: 12 Hrs.

Foliar, stem and root diseases. **Crops:** Ornamentals grown in greenhouses, interiorscapes, field nurseries, landscapes and containers. **Rates:** 1 - 4 oz. per 100 gal. (Foliar); 1 - 2 oz. per 100 gal. (Drench). (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** 50% Fludioxonil **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1018	8x1 oz. bag	\$185.40	\$166.86 4/case

MILSTOP™ REI: 1 Hrs.

Broad spectrum contact fungicide that controls a variety of diseases **Crops:** Herbaceous ornamental plants and in greenhouse, nursery **Rates:** 2.5lb per 100 gallons **Application:** Foliar spray **AI:** 85.0% Potassium Bicarbonate **Mfr:** BioWorks **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1054	5 lb.	\$56.00	\$50.40 8/case

PHYTON-27® REI: See Label



Systemic bactericide and fungicide labeled for a wide variety of ornamental plants, nursery crops and trees. Its unique composition goes beyond the traditional disease control of copper-based products without the traditional side effects. Phyton-27 works within the plant to provide integral disease control and often enhances overall plant health and vitality.

Crops: Greenhouse, Field, Landscape and Interior: Annual & Perennial Bedding Plants, Potted Flowering Crops, Tropical Foliage, Cut Flower Crops & Nursery Crops. **Rates:** 1.5-5 fl oz per 10 gallons **Application:** Spray, drench, dip **AI:** 21.36% Copper Sulphate Pentahydrate **Mfr:** Phyton Corporation **SW:** Danger

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1022A	1 liter	\$115.71	\$109.95 12/case
235-1022B	1 gal.	\$401.42	\$381.35 4/case

PLANTSHIELD® H.C.

Botrytis, cylindrocladium, fusarium, pythium, rhizoctonia and thielaviopsis. **Crops:** Foliar and root diseases in nursery and greenhouse crops. **Rates:** 0.25 - .05 oz. per gal. (Foliar Spray); 3 - 5 oz. per 100 gal. (Drench) (Please see label for specific rates.) **Application:** Foliar Spray or Drench. **SW:** Caution **AI:** Trichoderma harzianum "T-22" **Mfr:** BioWorks, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1038	3 lb. container	\$191.35	\$172.22 6/case

PROTECT™ DF REI: 24 Hrs.

86 diseases including anthracnose and botrytis. **Crops:** Turfgrass diseases & major fungal diseases of ornamentals. **Rates:** 1 - 2 lbs. per 100 gal. (Foliar Spray); 4 - 8 oz. per 1000 sq. ft. (Turf) (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 75% A coordination product of Zinc Ion and Manganese Bisdithiocarbamate. **Mfr:** Cleary Chemical Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-10231	6 lb. bag	\$40.12	\$36.10 6/case

ROOTSHIELD®

RootShield is a preventative biofungicide and should be applied to "clean" plants. Diseased plants should be chemically treated first, since the aggressively growing active ingredient, strain T-22 only grows on the outside and does not enter the plant tissue. RootShield is compatible with fertilizers, algacides, insecticides, disinfectants, miticides, herbicides, growth regulators, and nearly all fungicides. **Crops:** Greenhouse and nursery **Rates:** 4-5 oz. per 100 gallon **Application:** Drench **AI:** 1.15% Trichoderma harzianum Rifai KRL-AG2 **Mfr:** BioWorks **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1036	WP 3 lb.	\$231.40	\$208.30 6/case
Also available in below formulation- see label for specific instructions			
235-1039	40 lb. Granular	\$382.28	\$344.00 10/case

SPECTRO® 90 WDG REI: 12 Hrs.

Flower spots, powdery mildew, and others (see label for a complete list). **Crops:** Annual/perennial flowers, bedding plants, foliage plants and groundcovers, as well as deciduous and evergreen trees and shrubs. **Rates:** 1 - 2 lbs. per 100 gal. (Foliar Spray); 3 - 5.76 oz. per 1000 sq. ft. (Turf) (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Danger **AI:** 90% Thiophanate Methyl plus Chlorothalonil **Mfr:** Cleary Chemical Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1033	5 lb. bag	\$85.57	\$77.00 4/case

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NUFARM TM+CTN E-PRO 90 WDG

SAVE!

REI: 12 Hrs.



Brand equivalent product: **Spectro 90.** Chlorothalonil and thiophanate-methyl, two of the

most dependable fungicides for turf and ornamentals, work together in TM + CTN E-Pro 90 WDG Fungicide to provide long-lasting, broad-spectrum control of difficult diseases like anthracnose, dollar spot, gray leaf spot, large brown patch, powdery and downy mildews and many more disease conditions. Since this is a combination product, it offers differing modes of action toward the target fungus. This dual action control helps increase control efficiency and reduces the risk of resistance development in the target fungus. **Crops:** Annual and perennial flowers, bedding plants, foliage plants, groundcover, plus deciduous and evergreen trees and shrubs. **Rates:** 1.5-5.7 lbs per acre **Application:** Foliar spray **AI:** 72% Thiophanate-Methyl+ 18% Chlorothalonil **Mfr:** Nufarm **SW:** Danger

Stock No.	Description	Price/Ea.	Case Price/Ea.
235211006	5 lb.	\$76.23	\$72.40 4/case

STATURE[®] DM

REI: 12 Hrs.

Use as a Spray or Drench for control of Foliar and root diseases. **Crops:** Greenhouse and Nursery grown ornamental plants **Rates:** 6.12-12.25 fl oz per 100 gallons **Application:** Foliar Spray, drench, chemigation **AI:** 50.0% Dimethomorph **Mfr:** BASF **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1043	1 lb.	\$152.02	\$136.82 10/case

STRIKE[®] 50WDG

REI: 12 Hrs.

Leaf blight, leaf spot, powdery mildew, rust and sclerotinia. **Crops:** Fungal diseases on ornamental plants in the greenhouse and nursery. **Rates:** 1 - 8 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 50% Triadimefon **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-10211	0.5 lb. container	\$84.37	\$75.93 12/case

SUBDUE[®] GR

REI: 48 Hrs.

Damping off, downy mildew, root/stem rot diseases caused by phytophthora and pythium. **Crops:** Ornamentals, turf, landscape and nurseries. Labeled for foliage plants, flowers, Azaleas, and woody ornamentals. **Rates:** Please see label for specific rates. **Application:** Broadcast Application or Soil Incorporation **SW:** Caution **AI:** 1% Mefenoxam **Mfr:** Syngenta Crop Protection

Stock No.	Description	Price/Ea.	Volume/Ea.
235-1024A	25 lb. bag	\$121.80	\$109.60 10/bags

SUBDUE[®] MAXX[®]

REI: 48 Hrs.

Damping off, root/stem rot diseases caused by phytophthora and pythium. **Crops:** Ornamentals, turf and non-bearing citrus trees grown in landscapes and nurseries. Labeled for foliage plants, flowers, azaleas and woody ornamentals. **Rates:** Please see label for specific rates. **Application:** Drench or Broadcast Spray **SW:** Caution **AI:** 22% Mefenoxam **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1024	1 gal. container	\$840.70	\$756.64 2/case

QUALI-PRO[®] MEFENOXAM 2 AQ

SAVE!

REI: 0 Hrs.



Brand Equivalent product: **Subdue Maxx[®]** Damping off, root/stem rot diseases caused by phytophthora and pythium. **Crops:** Nursery, greenhouse, landscape, turf and trees. **Rates:** Please see label for specific rates. **Application:** Irrigation, Drench, Surface Spray or Soil Incorporation. **SW:** Caution **AI:** 24.3% Mefenoxam **Mfr:** Quali-Pro

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-8111	1 qt. container	\$161.70	\$153.62 4/case
235-8112	1 gallon	\$546.70	\$519.37 4/case
235-8114	2.5 gallon	\$1,347.50	\$1,280.13 2/case

TERRACLOR[®] 400

REI: 12 Hrs.

Azalea petal blight, bulb/crown rot, root/stem rot & more. **Crops:** Ornamentals grown in greenhouses, shadehouses, nurseries, landscape plantings and interiorscapes. **Rates:** 16 - 32 oz. per 100 gal. (Drench); 3 - 9 pts. per 100 gal. (Bulb Soak). (Please see label for specific rates.) **Application:** Drench or Bulb Soak **SW:** Caution **AI:** 40% PCNB **Mfr:** Chemtura Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-10255	1 gal. container	\$79.95	\$71.96 4/case

TERRACLOR[®] 75WP

REI: 12 Hrs.

Azalea petal blight, bulb/crown rot, root/stem rot & others. **Crops:** Soilborne fungal diseases in a variety of field and ornamental crops, as well as turf. **Rates:** 4 - 8 oz. per 100 gal. (Soil Drench); 3 - 16 oz. per 1000 sq. ft. (Turf) (Please see label for specific rates.) **Application:** Soil Drench or Broadcast Spray **SW:** Caution **AI:** 75% PCNB **Mfr:** Chemtura Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1025	5 lb. bag	\$69.10	\$62.15 8/case

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TERRAGUARD® SC

REI: 12 Hrs.

Systemic fungicide that provides both protective and curative activity. **Crops:** plants grown in greenhouses, shadehouses, interiorscapes and nurseries **Rates:** 2-16 fl oz per 100 gallons **Application:** Foliar spray, drench, cutting soak **AI:** 42.14% triflumizole **Mfr:** Chemtura **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1044	1 qt.	\$315.00	\$283.47 12/case

TERRAZOLE® 35WP

REI: 12 Hrs.

Terrazole® 35WP soil fungicide is effective for prevention and control of damping-off, root rot and stem diseases caused by Pythium and Phytophthora species. **Crops:** Ornamentals, nursery crop and turf **Rates:** 3.5-10 oz. per 100 gallons **Application:** Drench **AI:** 35% Etridiazole **Mfr:** Chemtura **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1046	2 lb.	\$81.40	\$73.26 6/case

TRUBAN EC®

REI: 12 Hrs.

Damping Off, Root and Stem Rot diseases caused by Phytophthora and Pythium. **Crops:** Soilborne diseases in greenhouse and outdoor environments. **Rates:** 3 - 8 oz. per 100 gal. (Please see label for specific rates.) **Application:** Drench **SW:** Danger **AI:** Etridiazole **Mfr:** The Scotts Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1029	1 qt. container	\$70.12	\$63.10 4/case

TRUBAN 30WP®

REI: 12 Hrs.

Damping Off, Root and Stem Rot diseases caused by Phytophthora and Pythium. **Crops:** Soilborne diseases in greenhouse and outdoor environments. **Rates:** 3 - 12 oz. per 100 gal. (Please see label for specific rates.) **Application:** Drench **SW:** Danger **AI:** 30% Etridiazole **Mfr:** The Scotts Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1031	2 lb. container	\$74.40	\$64.00 4/case

VERANDA O

REI: 4 Hrs.

Veranda O works by inhibiting chitin synthase during cell wall development. As a member of a unique chemical class Veranda O is an excellent choice as a rotational tool for control of important diseases such as Botrytis, Alternaria, Downy Mildew, Rhizoctonia, and others. Veranda O is a bio-pesticide with long term 21+ days control and a broad spectrum of activity. **Crops:** Greenhouse, shade house and field grown ornamentals and interiorscapes. **Rates:** 4-8 oz. per 100 gallons **Application:** Foliar spray and drench **SW:** Caution **AI:** 11.3% Polyoxin D zinc salt **Mfr:** OHP

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1192	1 lb. container	\$144.97	\$130.48 4/case

VITAL

REI: 4 Hrs.

Vital is a systemic product, which contains potassium and phosphate. The phosphonic anion is effective in prevention and control of diseases caused by Peronospora spp., Phytophthora and Pythium spp., by fungicidal activity and activation of the plants' natural resistance mechanism. will control downy mildew, Phytophthora, Pythium spp. and Xanthomonas campestris. In order to achieve maximum results in controlling the disease, spraying should be carried out before the appearance of the disease or when disease is first observed.

Crops: Bedding plants, ornamentals and conifer nurseries **Rates:** 2-4 fl oz per 100 gallons **Application:** Foliar spray, drench and soil incorporation **AI:** 54.5% Potassium Phosphite **Mfr:** Phoenix **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1145	2.5 gallon	\$119.41	\$107.47 2/case

XEROTON-3™

REI: 2 Hrs.



Algacide, bactericide and fungicide for control of plant pathogens. Also can be used to control fungi and algae on greenhouse structures, glazing, walkways, floors and walls.

Crops: Bedding plants, flowering plants, roses, poinsettias, ornamentals, nursery stock, tree, cut flowers, bulbs and cuttings **Rates:** See Label **Application:** Spray and drench **AI:** 6.9% hydrogen peroxide, 4.4%

peroxyacetic acid, 3.3% Octanoic acid **Mfr:** Phyton Corp **SW:** N/A

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1165	96 oz.	\$145.16	\$130.65 4/case
235-1170	4 gal. pail	\$673.55	606.19 2/case

ZEROTOL®

Many diseases, see label for full list. **Crops:** Bedding plants, flowering plants, ornamentals, nursery stock, trees, cut flowers, bulbs, cuttings, seedlings, seeds and more. **Rates:** Please see label for specific rates.

Application: Water treatment, Drench, Mist Propagation, Foliar Spray or General Sanitation. **SW:** Danger **AI:** Hydrogen Dioxide **Mfr:** BioWorks, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1040	2.5 gal. container	\$133.50	\$121.95 2/case

ZYBAN® WSB

REI: 12 Hrs.

Anthrachnose, Powdery Mildew, Rust, Scab and others. **Crops:** Turf, Landscape and Ornamental and Nursery crops. **Rates:** 24 oz per 100 gal. **Application:** Foliar Spray or Broadcast Spray **SW:** Caution **AI:** 15.6% Thiophanate-Methyl, 64% Zinc Iron Ethylenebis **Mfr:** The Scotts Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-1034	3 lb. bag (8 x 6oz)	\$68.45	\$61.60 6/case

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PLANT GROWTH REGULATOR USAGE CHART

	A-REST	B-NINE WSG	BONZI	CYCOCEL	FASCINATION	FLOREL BRAND PISTILL	PRO GIBB 4%	SUMAGIC
Foliar Spray	X	X	X	X	X	X	X	X
Drench	X		X	X		X		X
Pre-plant Bulb Soak			X			X		X
Azaleas	X	X	X	X		X	X	X
Bedding Plants	X	X	X	X		X		X
Bulbs & Bulb crops	X		X					X
Chrysanthemums	X	X	X	X		X		X
Easter Lilies	X			X	X			X
Foliage Plants	X	X	X					
Geraniums	X		X	X		X	X	X
Hibiscus			X	X				X
Perennials	X	X	X	X				X
Plugs	X	X	X					
Poinsettias	X	X	X	X				X
Woody Plants	X		X	X				X

PLANT GROWTH REGULATOR BRAND EQUIVALENT COMPARISON CHART

PLANT GROWTH REGULATORS			
BRAND NAME	BRAND ALTERNATIVE	SUMMARY	PAGE REFERENCE
AREST (SePRO CORP)	ABIDE (FINE AMERICA)	Effectively reduces internode elongation, generating more compact and sturdier plants. Promoting darker green foliage, thereby enhancing their marketability.	19
B-NINE® (CHEMTURA CORP)	DAZIDE™ 85 WSG (FINE AMERICA)	Helps growers manage plant growth and development to ensure plants are more compact, stronger, and better able to cope with transportation or transplanting, thus meeting increasingly stringent customer needs.	19
BONZI® (SYNGENTA)	PICCOLO® (FINE AMERICA)	Controls height and radius across a wide range of ornamental crops. Enhances the quality of bedding plants, flowering and foliage plants, bulb crops, perennials, and woody ornamentals, making them easier to market and more profitable to produce.	19
CYCOCEL® (OHP, INC)	CITADEL (FINE AMERICA)	Reduces plant height by limiting internode elongation through inhibition of gibberellins biosynthesis.	19
FASCINATION® (VALENT U.S.A CORP)	FRESCO (FINE AMERICA)	Approved for reduction of leaf yellowing in Easter lily, LA hybrid lily and Asiatic lily.	20
NONE	CONFIGURE™ (FINE AMERICA)	Effective product for use on ornamental crops to increase lateral branching and promote flowering in certain ornamental species. Also reduce the overall height of the plant resulting in more compact and marketable plants.	20
PROGIBB® (VALENT U.S.A CORP)	FLORGIB® (FINE AMERICA)	Contains gibberellic acid (GA3). Gibberellins are compounds that are naturally produced within plants to stimulate growth. It has a huge variety of useful applications including elongation of peduncles in Pompom Chrysanthemums, earlier flowering and increased yield in Statice, and accelerated plant growth with increased number of flowering stems in Gypsophila.	20
SUMAGIC® (VALENT U.S.A CORP)	CONCISE™ (FINE AMERICA)	Reduces plant height, producing more desirable, compact and marketable plants. These desirable qualities include darker colors, higher chlorophyll content, greater leaf thickness, stronger stems, increased water retention and, at times, increased flower number and size.	20

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Sumagic® is a registered trademark of Sumitomo Chemical Co. Ltd. B-Nine® is a registered trademark of Chemtura Corp. Fascination® and ProGibb® are registered trademarks of Valent Biosciences Corp. Bonzi® is a trademark of Syngenta Group Co. A-Rest is a trademark of SePRO Corp. Cycocel® is a trademark of BASF Corporation.



A-REST

REI: 12 Hrs.


Reduces internodal elongation in a wide variety of plants. Do not use wetting agents with A-Rest (may cause crop injury). **Crops:** Container grown Lilies, Poinsettias, Mums, Tulips, bedding and foliage plants in containers (see label for full list). For use in nurseries, greenhouses, shadehouses and interiorscapes. **Rates:** See label for rates. 0.25 - 7.3fl oz. per gal. **Application:** Foliar Spray or Drench **SW:** Caution **AI:** 0.0264% Ancymidol **Mfr:** SePRO Corp.

Stock No.	Description	Price/Ea.	Case. Price/Ea.
235-2001	1 qt. container	\$77.95	\$70.15 12/case
235-2002	2.5 gal. container	\$790.71	\$711.65 2/case

FINE-AMERICA ABIDE

SAVE!

REI: 12 Hrs.

 (Brand equivalent **A-Rest**) Abide is a plant growth regulator that effectively reduces internodes elongation, promoting more compact and sturdier plants and darker green foliage. **Application:** Foliar Spray or Drench **Crops:** Bedding plants, flowering and foliage plants, bulb crops, perennials and woody ornamentals. **Rates:** Drench 6-66 fl oz per gallon Spray 0.25 to 64.0 fl oz per gallon **Mfr:** Fine-America **AI:** .0264% Ancymidol **SW:** Caution

Stock No.	Description	Price/Ea.	Case. Price/Ea.
23531021	1 qt.	\$60.06	\$570.6 4/case
23531024	2.5 gal.	\$577.50	\$548.63 4/case
23531026	30 gal.	\$6,006.00	\$5405.40 4/case

B-NINE® WSG

REI: 24 Hrs.

Moves systemically within the plant to reduce internodal elongation. For best results, water before spraying plants. Foliage should be dry when applied. A gentler option for plant growth regulation. **Crops:** For use in commercial or research greenhouses, shadehouses and nurseries. Use on mums, azaleas, hydrangeas and bedding plants to produce shorter and more compact plants. **Rates:** See label for rates. **Application:** Foliar Spray **SW:** Caution **AI:** 85% Daminozide **Mfr:** Chemtura Corp.

Stock No.	Description	Price/Ea.	Case. Price/Ea.
235-2004	1 lb. bag	\$104.40	\$93.96 12/case
235-2005	5 lb. bag	\$500.45	\$450.40 8/case

FINE-AMERICA DAZIDE 85 WSG

SAVE!

REI: 24 Hrs.

 (Brand equivalent **B-Nine**) Helps growers manage plant growth and development for more compact, stronger and better able to cope with transplanting and transportation. **Application:** Foliar Spray **Crops:** variety of ornamental plants, mums, gardenias, azaleas, hydrangeas, poinsettias, petunias, marigolds **Rates:** 4.5-33.4 grams per gallon **Mfr:** Fine-America **AI:** 85% Daminozide **SW:** Caution

Stock No.	Description	Price/Ea.	Case. Price/Ea.
23531102	1 lb.	\$66.99	\$63.64 12/case
23531104	5 lb.	\$327.25	\$310.89 8/case

BONZI®

REI: 12 Hrs.

Usage effectively reduces internodal elongation, resulting in more desirable compact plants. When used as directed, it produces no phytotoxic effects. Do not reuse pots, trays or other containers that contained previously treated (with Bonzi) crops. **Crops:** For use on ornamental plants (see label for full list) grown in containers in nurseries, greenhouse, shadehouses & interiorscapes. **Rates:** See label for rates. **Application:** Foliar Spray, Drench or Preplant Bulb Soak **SW:** Caution **AI:** 0.4% Paclobutrazol **Mfr:** Syngenta Crop Protection

Stock No.	Description	Price/Ea.	Case. Price/Ea.
235-2013	1 qt. bottle	\$146.25	\$131.63 6/case

FINE-AMERICA PICCOLO

SAVE!

REI: 12 Hrs.

 (Brand equivalent **Bonzi**) Piccolo offers control of height and radius across a wide range of ornamental crops. **Application:** Foliar Spray and drench **Crops:** Bedding plants, flowering and foliage plants, bulb crops, perennials and woody ornamentals. **Rates:** 0.032-60.4fl oz per gallon **Mfr:** Fine-America **AI:** 0.4% Paclobutrazol **SW:** Caution

Stock No.	Description	Price/Ea.	Case. Price/Ea.
23531162	1 qt.	\$99.41	\$94.44 12/case
23531164	1 gal.	\$276.86	\$263.02 4/case
23531166	2.5 gal.	\$553.71	\$526.02 2/case

CYCOCEL®

REI: 12 Hrs.

Treated crops are more compact w/shorter internodes, stronger stems & greener leaves. Made with a wetting agent in the formulation. **Crops:** For use on ornamentals in greenhouses. Commonly used on Azaleas, Poinsettias and others (see label for full list). **Rates:** 0.22 - 4.34 fl. oz. 1 gal. See label for rates. **Application:** Foliar Spray or Drench **SW:** Caution **AI:** 11.8% Chlor mequat **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case. Price/Ea.
235-2006	1 qt. container	\$92.90	\$85.60 12/case
235-2007	1 gal. container	\$357.15	\$321.45 4/case
235-20071	30 gal. drum	\$9,447.45	\$8,502.04 4/case

FINE-AMERICA CITADEL

SAVE!

REI: 12 Hrs.

 (Brand equivalent **Cycozel**) Citadel reduces plant height by limiting internode elongation through inhibition of gibberellins biosynthesis. **Application:** Foliar Spray or Drench **Crops:** Poinsettias, geraniums, azaleas, hibiscus, bedding plants and other herbaceous and woody ornamental crops **Rates:** .22-4.34 fl oz per gallon **Mfr:** Fine-America **AI:** 11.8% Chlormequat **SW:** Caution

Stock No.	Description	Price/Ea.	Case. Price/Ea.
23531042	1 gal.	\$231.00	\$219.45 4/case
23531044	30 gal.	\$6,100.71	\$5,490.75 4/case

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FINE-AMERICA CONFIGURE



REI: 12 Hrs.



Effective product for use on ornamental crops in increase lateral branching and promote flowering on

certain woody ornamentals. **Application:** Foliar Spray **Crops:** Fine-America **Rates:** Certain woody ornamentals **Mfr:** Fine-America **AI:** 2.0% 6-benzylaminopurine (6-BA) **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
23531062	0.5 gal.	\$100.10	\$95.10 8/case

FASCINATION®

REI: 4 Hrs.

An extremely active plant growth regulator. Can reduce lower leaf yellowing for up to 3 weeks. Also delays flower senescence.

Crops: Easter and LA Hybrid Lilies. **Rates:** See label for rates. **Application:** Foliar Spray **SW:** Caution **AI:** 1.8% Gibberellic Acids, 1.8% Phenylmethyl **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price	Case Price/Ea.
235-2010	0.5 gal. container	\$406.75	\$366.10 4/case

FINE-AMERICA FRESCO



REI: 4 Hrs.



(Brand equivalent **Fascination®**) Fresco is approved for reduction of leaf yellowing in Easter lilies **Application:**

Foliar Spray **Crops:** Lilies **Rates:** 0.007-0.07 Fl oz per gallon **Mfr:** Fine-America **AI:** 1.8% Gibberellins 1.8% N-(phenylmethyl)-1H-purine-6-amine **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
23531142	1 qt.	\$132.29	\$125.67 12/case

FLOREL BRAND PISTILL

REI: 48 Hrs.

Increases lateral branching, prevents flower initiation and development and inhibits internodal elongation in ornamentals. Induces flowering in bromeliads. Reduces plant height of potted daffodils and stem topple of potted hyacinths. **Crops:** Bedding plants, Chrysanthemums, Geraniums, Hibiscus, Impatiens, Poinsettias, and other ornamentals (see label). Also used in hybrid seed production of cucumber, pumpkin and squash. **Rates:** See label for rates. **Application:** Foliar Spray, Drench or Preplant Bulb Soak **SW:** Caution **AI:** Ethephon **Mfr:** Monterey Lawn and Garden Products

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-2008	1 qt. container	\$23.65	\$21.30 12/case
235-2009	1 gal. container	\$54.65	\$49.20 4/case

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PROGIBB® T&O

REI: 12 Hrs.

Used on ornamentals to promote plant growth & stem elongation. Also used to accelerate blooming & to increase flower yield of some plants. Extremely active plant growth regulator. **Crops:** Aster, Azaleas, Baby's breath, Calla Lilies, Camellias, Chrysanthemums, Delphiniums, Dianthus, Geraniums, Larkspur, Limonium, and Queen Anne's Lace. **Rates:** 0.003 - 112.0 fl. oz/gal. **Application:** Foliar Spray **SW:** Warning **AI:** 4% Gibberellic Acids **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-2011	1 qt. container	\$61.50	\$55.35 12/case

FINE-AMERICA FLORGIB



(Brand equivalent **Progibb®**) Florgib contains gibberellins that are naturally produced within plants to stimulate

growth. **Application:** Foliar Spray, drench **Crops:** Poinsettias, gypsophila, poinsettias, tropical foliage, cyclamen, lilies **Rates:** See label **Mfr:** Fine-America **AI:** 4% Gibberellic acid **SW:** N/A

Stock No.	Description	Price/Ea.	Case Price/Ea.
23531122	1 gal.	\$84.59	\$80.36 4/case

SUMAGIC®

REI: 12 Hrs.

An effective growth retardant on a wide variety of ornamental crops. Reduces plant height by reducing internodal elongation through inhibition of gibberellin biosynthesis. Results in more desirable compact and marketable plants. Has also been shown to produce darker colored leaves, higher chlorophyll content, greater leaf thickness, stronger stems, increased water retention and, in some case, increased flower number and size. Avoid application when plants are under stress. Plants should be well watered prior to application. **Crops:** Azaleas, bedding plants, Chrysanthemums, Easter Lilies, Geraniums, Vegetable transplants Poinsettias and other woody landscape plants. **Rates:** See label for rates. **Application:** Foliar Spray, Drench or Preplant Bulb Soak **SW:** Caution **AI:** Uniconazole-P **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-2015	1 qt. container	\$110.32	\$99.30 4/case
235-20151	1 gal. container	\$384.85	\$346.35 4/case

FINE-AMERICA CONCISE



REI: 12 Hrs.



(Brand equivalent **Sumagic®**) Concise reduces plant height by limiting internode elongation,

producing more desirable, compact plants **Application:** Foliar Spray and Drench **Crops:** Bedding plants, Bulb Crops, Geraniums, Easter Lilies, poinsettias, mums, azaleas, hibiscus and woody ornamentals **Rates:** 0.26- 19.2 Fl oz per gallon **Mfr:** Fine-America **AI:** 0.055% Uniconazole-p **SW:** N/A

Stock No.	Description	Price/Ea.	Case Price/Ea.
23531082	1 gal.	\$277.48	\$263.60 4/case
23531084	15 gal.	\$3,594.60	\$3,235.14 4/case



HERBICIDE USAGE CHART

	Pre-Emergent											Post-Emergent	
	BARRICADE	BROADSTAR	PENDULUM	PENNANT	GALLERY	OH 2	RONSTAR	ROUT	SNAPSHOT	SURFLAN	TREFLAN	REWARD	ROUNDUP
	Grasses and Sedges:												
Annual Bluegrass	G	P-F	G	F	P	G	F	G	G	G	G	G	G
Barnyard Grasses	G	-	G	G	-	G	G	G	G	G	G	-	G
Bermudagrass	-	-	-	-	-	-	-	-	-	-	-	P	G
Crabgrass	G	F-G	G	G	F	G	G	G	G	G	G	G	G
Fall panicum	-	-	G	G	-	G	-	G	G	G	G	G	G
Foxtails	G	F-G	G	G	-	G	G	G	G	G	G	G	G
Goosegrass	G	-	G	G	F	G	G	G	G	G	G	G	G
Johnsongrass (seeding)	-	F	G	G	-	G	-	G	G	G	G	-	-
Orchardgrass, fescue	-	-	-	-	-	N	N	N	N	N	N	F	G
Quackgrass	-	-	-	-	-	-	-	-	-	-	-	-	G
Small grains	-	-	-	-	-	-	-	-	-	-	-	-	G
Yellow Nutsedge	N	N	N	G	N	N	N	N	N	N	N	F	G
Broadleaf Weeds:													
Bittercress	P-F	G	P-F	P	G	-	-	-	-	-	-	-	F
Carpetweed	G	-	G	F	-	G	G	G	G	G	F	G	G
Chickweed	G	F-G	G	F	G	F	N	F	G	F	G	G	G
Cutleaf evening primrose	P	-	G	F	G	G	G	G	G	F	-	-	G
Dogfennel	-	-	-	-	G	-	P	G	G	G	-	-	F
Galinsoga (quickweed)	-	-	-	-	-	G	G	G	G	N	N	G	G
Groundsel, common	-	G	P	P	F	G	F	G	G	P	-	G	G
Henbit (deadnettle)	-	-	-	G	G	G	G	G	G	G	-	G	G
Horseweed (marehall)	-	-	-	P	F	G	G	G	G	-	-	F	G
Knotweed	-	-	-	-	-	G	-	G	-	-	-	-	G
Lambsquarters	-	E	F	P	G	G	G	G	G	G	F	F	G
Morningglory	-	G	P	N	P	G	P	G	-	N	N	G	F
Mustard	-	-	-	-	-	-	-	-	-	-	-	G	G
Nightshade	-	-	P	G	-	G	-	G	G	P	P	-	G
Pigweed	-	G	F	G	G	G	G	G	-	F	F	G	G
Prickly Lettuce	-	-	-	-	-	G	-	G	-	-	-	G	G
Prickly sida	-	E	-	P	-	-	-	-	-	P	P	F	G
Purslane	-	-	F	F	G	G	G	G	G	F	F	G	G
Pusley, Florida	-	-	-	-	-	-	-	-	-	-	-	-	G
Ragweed	P	E	N	N	G	-	P	G	G	N	N	G	G
Red Sorrel	-	-	-	-	-	-	-	-	-	-	-	F	G
Shepherds purse	-	-	N	-	G	G	G	G	-	N	N	G	G
Smartweed	-	-	-	P	G	G	-	G	-	P	P	F	G
Sowthistle	-	-	-	-	-	-	-	G	-	G	-	-	-
Spurge, Prostrate (spotted)	G	G	G	P	F	G	F	G	G	G	-	G	G
Veronica (speedwell)	-	-	-	-	-	-	G	-	G	-	-	-	G
Yellow Woodsorrel	G	G	G	P	F	G	G	G	G	F	-	-	G

G = good control, F = fair, P = poor, N = no control, (-) = no information.

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BARRICADE® 65WG REI: 12 Hrs.

A pre-emergent herbicide for the control of grass and broadleaf weeds. This product is most effective when activated by 0.5" of irrigation or rainfall or soil incorporation (1" to 2") before weed seed germination or within 14 days of application. Provides up to 8 months of control. See label for full list of weeds controlled. **Crops:** Established turf-grass (excluding golf course putting greens), lawns, sod nurseries, containers, field-grown ornamentals, landscape ornamentals, established perennials, established wildflower plantings & Christmas trees. Over 150 safe-tested ornamentals on the label. **Rates:** 0.5 to 2.3 lbs. per acre (Please see label for specific rates.) **Application:** Broadcast Spray **Rates:** Caution **AI:** 65% Proflamifone **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3002	3 lb. container	\$157.50	\$141.75 6/case

NUFARM PROCLIPSE™ REI: 12 Hrs.



Brand equivalent **Barricade**. ProClipse 65 WDG is a water dispersible granule containing proflamifone for preemergence control of 30 grassy and broadleaf weeds in turf and ornamentals. ProClipse offers low rate, season-long control with a unique, non-staining active ingredient and greater application flexibility. ProClipse

controls susceptible weeds by preventing growth and development of newly germinated weeds **Crops:** Container, field grown, and landscape ornamentals. Established perennials and wildflower plantings. **Rates:** 1.0 pt per acre or 0.4 fl oz per 1000 sq ft **Application:** Spray **AI:** 65% Proflamifone **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235231002	10 lb.	\$230.76	\$219.23 5/case

BROADSTAR™ REI: 12 Hrs.

Provides pre-emergence weed control. Very effective against bittercress, spurge, liverwort and many other annual weeds (see label for full list). Provides at least 8 - 12 weeks of preemergent control under normal growing conditions. Does not inhibit root growth. Should not be applied to residential or commercial landscapes. **Crops:** Container and field grown shrubs, trees and ground covers. **Rates:** 3.4 lbs. per 1000 sq. ft.; 150 lbs. per acre **Application:** Broadcast Application **SW:** Caution **AI:** Flumioxazin **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3044	50 lb. bag	\$106.45	\$95.80 10/bags

CORRAL 2.68G® REI: 12 Hrs.

Corral your major grass problems by using the most effective pre-emergence grass herbicide. Corral® is a consistent, long-lasting performer in all nursery conditions. **Crops:** Ornamentals **Rates:** 57-114lb per acre **Application:** Spreader **AI:** 2.60% Pendimethalin **Mfr:** Scotts **SW:** Caution

Stock No.	Description	Price/Ea.	Volume Price/Ea.
235-3036	40 lb bag	\$62.30	\$56.05 10/bags

ENVOY PLUS™ REI: 24 Hrs.

Envoy Plus Herbicide is a selective postemergence herbicide for control of annual and perennial grasses. Envoy does not control sedges or broadleaf weeds. **Crops:** Ornamentals, Trees, ground cover, garden flowering plants and shrubs **Rates:** 4-8 fl oz 1000 sq ft, 12-32 fl oz per acre **Application:** Spray **AI:** 12.6% Clethodim **Mfr:** Valent **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3055	1 gal	\$135.00	\$121.50 4/case

FREEHAND 1.75G REI: 24 Hrs.

Combines two active ingredients to inhibit plant cell microtubule assembly (cells do not divide and multiply) and cell growth, inhibiting the germinating shoot portion of the susceptible weeds seedlings. **Crops:** Commercial ornamental nurseries, landscape ornamentals, Trees, shrubs, herbaceous perennials, bedding plants **Rates:** 2.3-4.6 lbs per 100 sq ft, 100-200lb per acre **Application:** Spreader **AI:** 0.75% dimethenamid and 1.00% pendimethalin **Mfr:** BASF **SW:** Caution

Stock No.	Description	Price/Ea.	Volume Price/Ea.
235-3059	50 lb bag	\$112.15	\$100.95 10/bags

GALLERY 75DF REI: 12 Hrs.

A preemergent herbicide for control of certain broadleaf weeds (see label). Controls weeds germinating from seed. Apply in late summer to early fall, or early spring, prior to germination of large weeds or immediately after cultivation. Good tank mix partner with Barricade. **Crops:** Established turf, landscape ornamentals, container grown ornamentals, field grown ornamentals, ground covers, perennials, non-cropland, ornamental bulbs, non-bearing fruit and nut trees, non-bearing vineyards and Christmas tree/conifer plantations. **Rates:** 0.66 - 1.33 lbs. per acre (Please see label for specific rates.) **Application:** Broadcast Spray or Directed Spot Spray **SW:** Caution **AI:** Isoxaben **Mfr:** Dow AgroSciences LLC

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3008	1 lb. container	\$194.16	\$174.74 4/case

JEWEL G REI: 12 Hrs.

The beauty of Jewel is that it gives growers great flexibility in chemical rotation at an excellent cost-in-use. **Crops:** perennials as well as many crop species and woody ornamentals **Rates:** .23lb per 100 sq ft, 2.3lb per 1000 sq ft, 100lb acre **Application:** Broadcast **AI:** 2.0% Oxadiazon, 1.24% pendimethalin **Mfr:** Scotts **SW:** Caution

Stock No.	Description	Price/Ea.	Volume Price/Ea.
235-3057	50 lb bag	\$151.28	\$136.15 10/bags

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ORNAMENTAL HERBICIDE II (OH2)[®] REI: 24 Hrs.

Ornamental herbicide for preemergent control of weeds (see label for full list). Provides excellent broad spectrum weed control. Distributes evenly when used at the proper application rates. For use on dry foliage only; must not be applied when plants are breaking dormancy or making a flush of growth. **Crops:** Container & field grown ornamentals (see label for full list). **Rates:** 2.3 lbs. per 1000 sq. ft. (Please see label for specific rates.) **Application:** Broadcast Application **SW:** Caution **AI:** Oxyflourfen and Pendimethalin **Mfr:** The Scotts Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3026	50 lb. bag	\$145.70	\$131.15 10/bags

PENDULUM[®] 2G REI: 24 Hrs.

Provides preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any turf grass site. **Crops:** Turf grasses, ornamentals, landscape or ground maintenance and non-cropland areas. **Rates:** Please see label for specific rates. **Application:** Broadcast Spray **SW:** Caution **AI:** Pendimethalin **Mfr:** BASF Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3010	40 lb. bag	\$68.00	\$61.20 10/bags

PENDULUM[®] 3.3EC REI: 24 Hrs.

A broad spectrum herbicide recommended for preemergent control of most annual grasses and broadleaf weeds as they germinate. **Crops:** Turf, field and container grown ornamentals. **Rates:** See label for rates. **Application:** Broadcast Spray **SW:** Caution **AI:** 37% Pendimethalin **Mfr:** BASF Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3037	2.5 gal. container	\$129.40	\$116.46 2/case

PENNANT MAGNUM[™] LIQUID REI: 24 Hrs.

Broad spectrum. Controls many annual grasses, certain broadleaf weeds & yellow nut sedge. Can be used in and around container/field-grown ornamentals, non-bearing nursery stock & sod farms. **Crops:** Nursery, turf, and landscape plantings. **Rates:** See label for rates. **Application:** Broadcast Spray **SW:** Caution **AI:** 83.7% S-metolachlor **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3007	1 gal. container	\$221.40	\$199.26 4/case

NUFARM TWO OX E-PRO REI: 24 Hrs.

 Brand equivalent **Regal 0-0**. Two OX E-Pro granular herbicide utilizes active ingredients oxyfluorfen and oxadiazon to provide excellent pre-emergent control of numerous grassy and broadleaf weeds. **Crops:** Commercial nursery and ornamental landscapes. **Rates:** 100 lbs to Acre **Application:** Broadcast spreader **AI:** 2% Oxyfluorfen + 1% Oxadiazon **Mfr:** Nufarm **SW:** Caution


Stock No.	Description	Price/Ea.	Volume Price/Ea.
235230401	50 lb. bag	\$121.53	\$115.46 10/bags

REWARD[®] L & A REI: 24 Hrs.

For use as a nonselective, post-emergent herbicide for control of weeds. It rapidly controls weeds within 24-36 hours. Avoid spray drift or contact with desirable plants. **Crops:** Greenhouse, nursery and landscape. **Rates:** 1 - 2 qts. per 100 gal. (Please see label for full rates.) **Application:** Broadcast Spray or Directed Spot Spray **SW:** Warning **AI:** Diquat **Mfr:** Syngenta Crop Protection

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3033	1 gal. container	\$157.50	\$141.75 4/case

NUFARM DIQUAT E-PRO 2L REI: 24 Hrs.

 Brand equivalent **Reward Diquat E-Pro 2L** is a nonselective herbicide which works by being absorbed by the weed and within a few days the weed shows signs of dying. **Crops:** Label for controlling weeds in the following areas; aquatic areas, commercial greenhouses and nurseries, landscape, industrial, recreational, commercial, residential and public areas. **Rates:** See label for rates **Application:** Spray **AI:** 37.3% Diquat debromide **Mfr:** Etigra **SW:** Caution

Stock No.	Description	Price/Ea.	Volume Price/Ea.
235230601	1 gal.	\$120.65	\$114.61 4/case
235230603	2.5 gal.	\$295.54	\$280.75 2/case

RODEO[®] REI: 4 Hrs.

For control of annual/perennial weeds and non-woody plants in and around aquatic and other non-crop sites; also for use in wildlife habitat areas for perennial greens release and grass growth suppression. **Rates:** Rates vary depending on dilution rate desired. Consult label instruction for more details. **Application:** Spray and Wiper Applications **SW:** Caution **AI:** 53% Glyphosate **Mfr:** Dow AgroSciences LLC

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3046	2.5 gal. container	\$191.05	\$171.96 2/case

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RONSTAR® 2G

REI: 12 Hrs.

A selective preemergent herbicide for control of many annual grasses and broadleaf weeds in turf and a wide variety of woody ornamental shrubs, vines, and trees. Kills grasses and weeds at germination.

Crops: Commercial nurseries, turf, and landscape. **Rates:** 2-1/2 to 4-1/2 lbs. per 1000 sq. ft. (Please see label for specific rates.)

Application: Broadcast Spray **SW:** Warning **AI:** 2% Oxadiazolin

Mfr: Bayer Environmental Services

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3013	50 lb. bag	\$109.30	\$98.35 10/bags

RONSTAR® 50WSP

REI: 12 Hrs.

Selective preemergent herbicide for the control on annual grass and broadleaf weeds in turf and ornamentals. **Crops:** Nursery, turf and landscaping. **Rates:** See label for rates. **Application:** Broadcast Spray

SW: Warning **AI:** 50% Oxadiazolin **Mfr:** Bayer Environmental Services

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3012	2 lb. bag	\$59.29	\$53.35 5/case

QUALI-PRO OXADIAZON 50WSP (COMPETITIVE BRAND - RONSTAR® 50 WSP)

SAVE!

REI: 24 Hrs.



Brand equivalent: **Ronstar® 50WSP**. Preemergent, surface applied herbicide for the control on many annual grasses and certain broadleaf weeds (see label for full list). **Crops:** Tree and vine crops, and Christmas tree plantations. **Rates:** 2 - 6 qts. per acre; 1.5 to 3 fl. oz. per 1000 sq. ft. depending on desired longevity. **Application:** Broadcast Spray **SW:** Caution **AI:** 41% Oryzalin **Mfr:** FarmSaver

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-8330	2x1 lb. container	\$56.98	\$54.13 5/case

ROUNDUP QUIKPRO®

Complete broad spectrum, nonselective, post-emergent herbicide that provides quick knockdown of weeds (see label for full list) in a short time period (typically 1-2 days under good conditions). **Crops:** Provides control of many annual weeds, perennial weeds, woody brush and trees. Avoid contact with desirable plants and trees, as severe injury or destruction may result. **Rates:** 1.2 - 1.5 oz. per gal. of spray solution. (Please see label for specific rates.) **Application:** Broadcast Spray or Directed Spray **REI:** Keep people and pets off treated areas until solution has dried. **SW:** Caution **AI:** 73% Glyphosate and Diquat **Mfr:** Monsanto Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-30170	45 oz. box	\$81.73	\$73.55/case

NUFARM RAZOR BURN

SAVE!



Brand equivalent **QuikPro**. Razor Burn is a post-emergent, systemic herbicide that is generally non-

selective and gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees. Razor Burn is a great product for situations where mechanical efforts are not suitable or other herbicides don't provide the speedy visual results. **Crops:** Weeds quickly and easily in ornamentals, bed maintenance, crack and crevice treatments, brush and vine clearing and perimeter treatments **Rates:** 2.0 -13.0 fl oz per gallon **Application:** Spray, wiper applicators, high volume broadcast sprayer **REI:** Until application is dry **AI:** 41% Glyphosate + 2.1% Diquat **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3102	64 oz.	\$46.65	\$44.32 8/case
235-31001	1 gal.	\$86.20	\$81.89 4/case

ROUNDUP PRO®

REI: 4 Hrs.

Complete broad spectrum, systemic, nonselective, post-emergent herbicide for weed control. Controls virtually all broadleaf and grassy weeds (see label for full list). Avoid spray drift and/or contact with desirable plants. Water-soluble liquid containing surfactant, so no additional surfactant is needed for optimum performance.

Crops: Industrial, turf and ornamental **Rates:** 1 - 5 qts. per acre (Please see label for specific rates.) **Application:** Broadcast Spray or Directed Spray **SW:** Caution **AI:** 41% Glyphosate **Mfr:** Monsanto Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3016	2.5 gal. container	\$168.00	\$151.20 2/case
235-30161	30 gal. container	\$1,773.06	\$1,541.75 4/pa

NUFARM RAZOR PRO®

SAVE!

REI: 4 Hrs.



Brand equivalent **Round-up Pro**. Razor Pro provides broad spectrum post-emergent weed control for industrial sites, forestry, turf, vegetation management and ornamental areas. Razor Pro, a surfactant loaded liquid 4-pound glyphosate that eliminates the need for additional surfactant, is rainfast within two hours of application. **Crops:** Weeds quickly and easily in ornamentals, bed maintenance, crack and crevice treatments, brush and vine clearing and perimeter treatments **Rates:** See Label **Application:** Spray, wiper applicators, high volume broadcast sprayer **AI:** 41% Glyphosate 14% surfactant **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3110	1 gal.	\$26.66	\$25.34 4/case
235-3112	2.5 gal.	\$51.00	\$48.50 2/case
235-3114	30 gal drum	\$600.00	\$570.00 5/plt

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NUFARM RAZOR®

SAVE!

REI: 4 Hrs.



Comparable to Monsanto **Roundup**. Razor non-selective post-emergent herbicide is specially formulated for use in most types of applications, including industrial, forestry, turf, vegetation management and ornamental areas. Razor is a water-soluble liquid 4-pound glyphosate explicitly formulated for specialty applications or broad spectrum control of hard-to-kill weeds. **Crops:** Annuals, perennials, grasses and broadleaf weeds

Rates: 2/3-13 fl oz per gallon **Application:** Spray, wiper applicators, high volume broadcast sprayer **AI:** 41% Glyphosate **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3106	2.5 gal.	\$50.00	\$475.00 2/case
235-3108	30 gal drum	\$587.50	\$558.15 5/pa

NUFARM PRODEUCE™

SAVE!



ProDeuce is a dual action herbicide that combines the pre-emergent, residual activity of prodiamine, with the non-selective, contact control of glyphosate to control over 30 grasses and broadleaf weeds. ProDeuce is intended for landscape and grounds managers, as well as lawn care operators to help alleviate multiple chemical and mechanical weeding applications throughout the growing season. Customers using ProDeuce save time and labor, while benefiting from reduced damage to plant material and fewer hard scrapes caused by mechanical trimmers. **Crops:** Broadleaf grasses and weeds around the bases of well established (6 mos.) sidewalks, driveways, patio, fencelines, curbs, retaining walls, etc... **Rates:** 3-6 fl oz per gallon for 1000 sq ft **Application:** Spray **REI:** See label **AI:** 40.15% Glyphosate, 7.5% prodiamine **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3120	64 oz.	\$46.60	\$44.27 8/case
235-3125	1 gal.	\$83.10	\$78.95 4/case
235-3130	2.5 gal.	\$200.50	\$190.50 2/case

ROUT GRANULES®

REI: 24 Hrs.

Excellent broad spectrum, preemergent control of weeds (see label for full list) including difficult species, such as spurge, chickweed, etc. For use on dry foliage only; must not be applied when plants are breaking dormancy or making a flush of growth. DO NOT disturb the soil surface once this product has been applied; doing so will break the herbicide barrier and reduce product effectiveness. **Crops:** Container grown ornamentals, field grown ornamentals, landscape ornamentals, cut flowers and foliage crops. **Rates:** 100 lbs. per acre (Please see label for specific rates.) **Application:** Broadcast Application **SW:** Caution **AI:** Oxyfluorfen and Oryzalin **Mfr:** The Scotts Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3019	50 lb. bag	\$152.30	\$131.15 10/bags

NUFARM DOUBLE O™ E-PRO HERBICIDE

REI: 24 Hrs.

SAVE!



Brand equivalent **Rout**. Double-O E-Pro Herbicide comes in a low-odor and low-dust granular formulation that offers the same level of high-quality control you have come to expect from oxyfluorfen and oryzalin. Just one application of this convenient, effective herbicide keeps ornamentals - whether in the nursery or in the landscape - free from a broad range of weeds for up to three months.

Crops: Containers, field grown and landscape ornamentals, cut flowers and ornamental foliage **Rates:** 100 lbs per Acre **Application:** Spreader **AI:** 2%Oxyfluorfen + 1% Oryzalin **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Volume Price/Ea.
235230201	50 lb.	\$121.50	\$115.46 10/bags

SCYTHE®

REI: 12 Hrs.

Contact, nonselective herbicide for control or burndown of a wide range of weeds. Must be foliar applied to actively growing, emerged green vegetation. Will provide burndown of both annual and perennial broadleaf and grass weeds as well as most mosses and other cryptogams. Can be tank mixed with Glyphosate products (Roundup or Touchdown) to enhance product effectiveness and accelerate burndown. Avoid contact with desirable plants. **Crops:** Actively growing, emerged green vegetation. **Rates:** 1.3 - 13 oz. per gal. of solution (See label for specific rates.) **Application:** Foliar Spray **SW:** Warning **AI:** Pelargonic Acid **Mfr:** Dow AgroSciences

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3025	2.5 gal. container	\$137.10	\$123.40 2/case
235-30251	1 gal. container	\$52.30	\$52.55 4/case

SEDGEHAMMER™

REI: 12 Hrs.

Preemergent herbicide for control of yellow and purple nutsedge and annual sedges. **Crops:** Turf and landscaped areas. **Rates:** 0.9 gram (measuring scoop provided) per 1 or 2 gal. of water to treat 1000 sq. ft. **Application:** Spray **SW:** Caution **AI:** Holosulfuron-Methyl **Mfr:** Gowan Co.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3048	1.33 oz. bottle	\$112.62	\$101.35 10/case

NUFARM SETHOXYDIM E-PRO

SAVE!

REI: 12 Hrs.



For nursery only, not greenhouse. Long-time standard for effective, selective control of tough perennial and annual grass weeds in ornamentals and nursery stock. **Rates:** 0.75 - 3.0 pints per acre **Application:** Broadcast, band or spot spray **AI:** 13% Sethoxydim **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-3052	1 gallon	\$123.20	\$117.04 4/case

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INSECTICIDES USAGE CHART

	ADEPT	AKARI 5SC	ARIA 50	AVID 0.15EC	Q/P ABAMECTIN	AZATIN XL	BOTANIGARD ES	CONSERVE	DECATHLON 20 WP	DIPEL PRO DF	DISCUS	DISTANCE IGR	DURAGUARD ME	ENDEAVOR	ENSTAR II	FLAGSHIP 25WG	FLORAMITE SC	GNATROL	HEXYGON DF	JUDO	M-PEDE	MARATHON 1% G	MARATHON 60WP	MARATHON II	
Greenhouse Interiorscape	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
Landscape				X	X	X	X	X	X	X		X	X	X			X		X	X	X				
Nursery				X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	
Turf							X	X																	
Vegetables/Edibles							X			X								X						X	
Broadcast Application																							X		
Broadcast Spray								X																	
Drench											X		X		X	X		X						X	
Foliar Spray	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X			X	
Ants											X		X												
Aphids			X	X	X	X	X		X		X	X	X	X	X	X					X	X	X	X	
Armyworms	X					X		X	X	X	X														
Bagworms								X	X	X	X														
Beetles						X	X	X	X		X		X				X						X	X	X
Beetles, Japanese						X			X		X		X				X						X	X	X
Borers											X														
Cabbage Loopers								X																	
Cankerworms						X		X	X		X														
Caterpillars						X		X	X	X	X		X									X			
Chinch Bugs																						X			
Crickets									X		X											X			
Cutworms						X		X	X		X														
Fungus Gnats	X								X		X	X	X		X	X		X					X	X	X
Grasshoppers									X		X														
Gypsy Moths								X	X	X	X											X			
Lacebugs									X		X						X					X	X	X	X
Leafhoppers						X			X		X		X				X					X	X	X	X
Leaf Miners	X			X	X	X		X			X	X	X									X	X	X	X
Leafrollers								X	X	X															
Mealybugs			X				X		X		X	X	X		X	X				X	X	X	X	X	X
Mites		X		X	X			X			X		X				X		X	X	X				
Scale									X		X	X	X		X	X						X	X	X	X
Shoreflies	X																								
Slugs & Snails																									
Thrips			X	X	X	X	X	X	X		X		X		X							X	X	X	X
Webworms								X	X	X	X														
Weevils						X	X				X											X			
Whiteflies	X			X	X	X	X		X		X	X		X	X	X				X	X	X	X	X	X
White Grubs																							X	X	X

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INSECTICIDES BRAND EQUIVALENT COMPARISON CHART

	MAVRIK AQUAFLOW	MERIT 0.5 G	MERIT 75 WP	MERIT 75 WSP	Q/P IMADCLOPRID 75 WSP	MESUROL 75WP	ORNAZIN 3% EC	ORTHENE 97 T&O	OVATION SC	PEDESTAL	PYLON	PYRETH-IT	SAFARI 20 SG	SANMITE 75WP	TALSTAR FLOW.	Q/P BIFENTHRIN NURSERY 7.9%	TALUS	TAME 2.4 EC	TETRASAN 5 WDG	THONEX 3EC	TRISTAR 70 WSP	ULTRA-FINE OIL	
Greenhouse Interiorscape	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Landscape	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		X	X	X
Nursery	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
Turf		X	X	X	X		X	X				X											X
Vegetables/Edibles								X				X											X
Broadcast Application		X																					
Broadcast Spray			X	X	X																		
Drench							X						X										
Foliar Spray	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ants	X							X				X			X	X							
Aphids	X		X	X	X	X	X	X				X	X		X	X		X		X	X	X	X
Armyworms	X						X	X		X		X						X		X			
Bagworms	X						X								X	X							
Beetles	X	X	X	X	X	X	X	X				X			X	X							X
Beetles, Japanese		X	X	X	X	X	X						X					X					
Borers							X								X	X							
Cabbage Loopers							X	X			X	X											
Cankerworms							X																
Caterpillars	X						X	X			X	X			X	X							
Chinch Bugs	X	X	X	X	X																		
Crickets	X														X	X							
Cutworms	X	X	X	X	X		X	X							X	X				X			
Fungus Gnats							X				X		X		X	X							X
Grasshoppers								X							X	X							
Gypsy Moths	X											X											
Lacebugs			X	X	X		X								X	X		X					X
Leafhoppers	X		X	X	X		X	X				X			X	X		X	X		X	X	X
Leaf Miners			X	X	X		X			X			X					X			X	X	X
Leafrollers							X	X				X						X					X
Mealybugs	X		X	X	X		X	X					X		X	X		X	X				X
Mites	X					X			X		X			X	X	X		X	X	X			X
Scale			X	X	X		X								X	X		X					X
Shoreflies													X										
Slugs & Snails						X																	
Thrips	X		X	X	X	X	X	X		X		X	X		X	X		X			X	X	X
Webworms							X					X			X	X				X			X
Weevils	X	X	X	X	X		X								X	X		X					X
Whiteflies	X		X	X	X		X	X		X		X	X	X	X	X		X	X		X	X	X
White Grubs		X	X	X	X																		

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INSECTICIDE BRAND EQUIVALENT COMPARISON CHART

INSECTICIDES			
BRAND NAME	BRAND ALTERNATIVE	SUMMARY	PAGE REFERENCE
AVID® (SYNGENTA)	ABAMECTIN E-PRO 0.15EC (NUFARM)	Reliable control of mites and leaf miners plus suppression of aphids, thrips and whiteflies.	31
DURSBAN® (DOW)	CHLORPYRIFOS E-PRO 2 (NUFARM)	Adaptable broad-spectrum insecticide. Effective on spiders, scorpions and other nuisance pests.	33
MARATHON® (OHP)	IMIDA E-PRO 2F (NUFARM)	Fast knockdown and long- lasting control of sucking and piercing insects that feed on ornamentals.	35
MARATHON® (OHP)	IMIDA E-PRO 60 WSP (NUFARM)	Easy handling WSP formulation for broad-spectrum control of sucking and piercing insects in ornamentals.	34
MARATHON® (OHP)	MANTRA™ 2F (NUFARM)	Controls wide range of piercing and sucking pests. Imidacloprid formulation specifically for greenhouse and nursery use.	35
MARATHON® (OHP)	MANTRA™ 1G (NUFARM)	Long-lasting contact and residual control of sucking and piercing insects in greenhouse and nursery operations.	34
TALSTAR® (FMC)	MENACE® GC 7.9% (NUFARM)	Low- odor, fast- acting pyrethroid for control of many insects species in nursery, greenhouse and other commerical applications.	37

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Avid® is a trademark of a Syngenta Group Company. Talstar® is a trademark of FMC. Dursban® is a trademark of Dow Agro Sciences LLC. Firewall™ is a trademark of AgroSource, Inc. Marathon® is a trademark of OHP, Inc.

INSECTICIDE-AEROSOLS USAGE CHART

	ATTAIN TR	DURAPLEX TR	ORTHENE TR 1300	PRECLUDE TR	PYRETHRUM TR	TAME/ ORTHENE	X-CLUDE 1600
Greenhouse	X	X	X	X	X	X	X
Landscape							X
Nursery					X		
Vegetables/Edibles					X		
Direct Spray							X
Total Release	X	X	X	X	X	X	
Aphids	X	X	X	X	X	X	X
Armyworms	X						
Bagworms	X						
Beetles					X		X
Cabbage Loopers			X			X	
Cankerworms			X			X	
Caterpillars	X	X	X	X		X	X
Cutworms				X			
Fungus Gnats	X	X	X		X	X	X
Lacebugs			X			X	
Leafhoppers					X		X
Leafminers			X	X		X	
Leafrollers	X		X			X	
Mealybugs	X	X	X	X	X	X	X
Mites	X	X	X	X	X	X	X
Scale	X	X	X	X	X	X	X
Shoreflies		X					
Thrips	X	X	X	X	X	X	X
Webworms			X			X	
Weevils				X			
Whiteflies	X	X	X	X	X	X	X



ADEPT® 25W

REI: 12 Hrs.

For control of soil inhabiting and foliar feeding insects. Exceeding label rates, volumes or number of applications of Adept can cause serious foliar injury to crops. Armyworms, fungus gnats, lepidopterous leaf miners, shoreflies, and whiteflies. **Crops:** Greenhouse Crops.

Rates: 4 - 8 oz. per 100 gal. (Foliar Spray); 1 oz. per 200 gal. (Drench) (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** Diflubenzuron **Mfr:** Chemtura Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4002	1 lb. bag	\$151.45	\$136.30 12/case

AKARI 5SC

REI: 12 Hrs.

Spider Mites. Akari works primarily through contact action, so good spray coverage is necessary. **Crops:** Greenhouse/nursery ornamentals, non-bearing fruit trees and vines, Christmas trees and indoor/outdoor ornamental plantings. **Rates:** 16 - 24 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Warning

AI: 5% Tert-butyl-p-toluate **Mfr:** SePRO Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4085	1 qt. container	\$141.00	\$126.90 6/case

ARIA™ 50 SG

REI: 12 Hrs.

Aphids, mealybugs, thrips, and whiteflies. For control of sucking pests. Treat when insects appear. This product stops insect feeding within 30 minutes, but insects may remain on plants for up to 5 days. Do not apply to food crops. **Crops:** Greenhouse and nurseries.

Rates: 0.7 - 4.3 oz. per 100 gal. (See label for specific rates.)

Application: Foliar Spray **SW:** Caution **AI:** Fonicamid **Mfr:** FMC Agricultural Products

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4140	120 gram box (6x20 gram packets)	\$144.00	\$129.60 6/case

AVID® 0.15EC

REI: 12 Hrs.

For control of leaf miners and mites and suppression of aphids, whiteflies and thrips. **Crops:** For use in shadehouses and greenhouses on field grown ornamentals, foliage plants, Christmas trees & other woody ornamentals. **Rates:** 4 - 8 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Warning **AI:** 2.0% Abamectin **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4001B	1 qt container	\$344.30	\$309.85 4/case

NUFARM ABAMECTIN E-PRO

REI: 12 Hrs.



Brand equivalent **Avid.** Abamectin E-Pro 0.15 EC Insecticide offers reliable,

long-lasting control of mites and leafminers, along with suppression of aphids, thrips and whiteflies. Abamectin E-Pro 0.15 EC affects pests within hours of exposure. Feeding and damage stops within hours; targeted pests die within two to four days. And, selective chemistry makes it a suitable rotation partner for resistance management and beneficial release programs. **Crops:** Greenhouse and field grown ornamentals, foliage plants, Christmas trees and other woody ornamentals **Rates:** 4-8 fl oz per 100 gallons **Application:** Foliar spray **AI:** 2% Abamectin **Mfr:** Nufarm **SW:** Warning

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-221002	1 qt.	\$135.75	\$129.00 4/case
235-221005	1 gal	\$539.20	\$512.25 4/case

AZATROL® EC INSECTICIDE

REI: 4 Hrs.

A botanical product for control of insects. Azatrol is a unique insecticide formulation containing azadirachtin that is very effective on white flies, leafrollers, aphids, mites and many other insects. This product does not harm most "beneficial" insects. **OMRI Approved Crops:** Indoor and outdoor ornamental shrubs, flowers, trees, vegetables and plants.

Rates: .032-2.18 fl oz per gallon **Application:** Spray **AI:** 1.2% Azadirachtin **Mfr:** PBI/Gordon Corp **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4192	1 qt.	\$70.76	\$63.68 4/case
235-4194	1 gal.	\$242.80	\$218.52 4/case

AZATIN® XL

REI: 4 Hrs.

Many insects controlled including Aphids, leaf minors, and whiteflies (see label for full list). Azatin causes a hormonal disruption, which breaks the insects' natural life cycle. While insects may not die immediately, feeding generally stops quickly. **Crops:** For indoor/outdoor or use on ornamental & horticultural crops. **Rates:** 10-18 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray, Drench **SW:** Caution **AI:** 3% Azadirachtin **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4000	1 qt. container	\$201.35	\$191.30 6/case

NOTES

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NUFARM ^{SAVE!} PERMETHRIN E-PRO

REI: 12 Hrs.



Brand equivalent **Dragnet/Astro**. Effective control of termites and other insect pests depends on longlasting chemistry that minimizes your need for re-treatments. Permethrin, the active ingredient in Permethrin E-Pro Termiticide/Insecticide, is a proven performer in both field use and long term USDA trials. Permethrin E-Pro features an easy mixing, low-odor formulation that virtually eliminates the risk of homeowner complaints. **Crops:** Turf, ornamentals and lawns in landscaped areas around residential institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields. Also for plants intended for aesthetic purposes or climate modification and being grown in interior landscapes, field and container grown nursery stock, greenhouses, trees and shrubs, ornamental gardens or parks, or lawns and grounds. **Rates:** 4 oz-5 quarts per 100 gallons **Application:** Spray and chemigation **AI:** Permethrin E-Pro **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235220204	1 qt.	\$31.55	\$29.95 12/case
235220202	1.25 gal.	\$108.10	\$97.25 4/case

BOTANIGARD[®] MYCOINSECTICIDE

REI: 4 Hrs.

An effective biological insecticide that is used to control whitefly, thrips, aphids, and many other insects. Based on the highly successful fungus, *Beauveria bassiana*, strain GHA, it controls the most troublesome crop pests – even resistant strains. **Crops:** Ornamentals and vegetables, indoor and outdoor nurseries greenhouses, shadehouses, commercial landscape and turf. **Rates:** 1/2qt to 2qt per 100 gallons **Application:** Spray **AI:** 11.3% *Beauveria bassiana* Strain GHA **Mfr:** Bioworks **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4004	1 qt.	\$61.28	\$55.15 10/case
235-4004A	1 gal.	\$214.00	\$192.60 4/case

CITATION[®]

REI: 12 Hrs.

Citation[®] insect growth regulator effectively and economically controls Dipterous leafminers, fungus gnats and shore flies in production ornamentals. Citation does not harm insect predators used in insect management programs and can be used in indoor and outdoor settings. **Crops:** Landscape ornamentals **Rates:** 2.66 fl oz per 100 gallons **Application:** Spray **AI:** 75% Cyromazine **Mfr:** Syngenta **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-2016	6x2.6 oz.	\$328.17	\$295.35 6/case

CONSERVE[®] SC

REI: 4 Hrs.

Turf and ornamental insect control with a unique mode of action, making it a great rotational insecticide. A top choice for thrips. Use with Capsil when spraying for mites. See label for full list of insects controlled. **Crops:** For use on woody and herbaceous ornamentals grown outdoors, in greenhouses or in nurseries and vegetables. **Rates:** 1 oz per 10 gal. (Foliar Spray); 10 - 52 oz. per acre (Turf Application) (Please see label for specific rates.) **Application:** Foliar Spray or Turf Application **SW:** Caution **AI:** 11% Spinosad **Mfr:** Dow AgroSciences

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4008	1 qt. container	\$153.50	\$138.15 4/case

DECATHLON[™] 20WP

REI: 12 Hrs.

Broad-spectrum control of crawling and flying insect pests including aphids and thrips. See label for full list of insects controlled. **Crops:** Trees, shrubs, foliage plants and flowers in nurseries, greenhouses and outdoor landscapes. **Rates:** 1.3 - 1.9 oz. per 100 gal. (See label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** Cyfluthrin **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4007	0.5 lb. container	\$72.20	\$65.00 12/case

DIMETHOATE 400 ORGANOPHOSPHATE

REI: 48 Hrs.

Effective insecticide for controlling aphids, thrips, leaf miners, scales, leafhoppers, and mites when first appearing. **Crops:** Not for enclosed greenhouses but for poinsettias, roses, pine, juniper, oaks, iris, holly, hemlocks, gladiolus, gardenias, euonymus, Fraser and Douglas fir, daylilies, azaleas, birch, and boxwood. **Rates:** 1-6 teaspoon per gallon **Application:** Spray **AI:** 30.5% Dimethoate **Mfr:** Arysta LifeScience NA Corp **SW:** Warning

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4196	2.5 gal.	\$130.71	\$117.39 2/case

DIPEL[®] PRO DF

REI: 4 Hrs.

Amyworms, bagworms, caterpillar larvae of lepidopterous insects, gypsy moths and sod webworms. This natural bacteria product is ingested by larvae which will stop feeding within an hour and die within three days. Approved for Organic Products. **Crops:** For use on fruit, vegetables, herbs, flowers, bedding plants and ornamentals in greenhouses, shadehouses, nurseries and landscape ornamentals. **Rates:** 0.25 - 2 lbs. per 100 gal. (See label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 54% *Bacillus thermogenesis* 'kurstaki' **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4009	1 lb. bag	\$15.45	\$13.90 30/case

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DISCUS™

REI: 12 Hrs.

For broad spectrum foliar and systemic insect control including aphids, leaf miners, and whiteflies (see label for full list of insects controlled.) **Crops:** Ornamentals and non-bearing fruit and nut trees in field and container nurseries. NOT FOR USE IN GREENHOUSES. **Rates:** 3.4 - 5.6 oz. per 1000 sq. ft. (See label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** 70% Cyfluthrin and 2.94% Imidacloprid **Mfr:** OHP, Inc.

Stock No.	Description	Price/ea.	Case Price/Ea.
235-4142	1 gal. container	\$254.90	\$229.40 4/case

DISTANCE® IGR

REI: 12 Hrs.

Insect growth regulator controls all four critical stages of the life cycle. Translaminar activity in the plant ensures insects feeding on the undersides of leaves will be controlled as well. For control of aphids, fungus gnats, and more (see label for full list). **Crops:** For use on indoor ornamentals, including flowering and foliage crops, groundcovers, shrubs, non-bearing fruit and nut trees. **Rates:** 6 - 12 oz. per 100 gal. (Foliar Spray); 2 - 6 oz. per 100 gal. (Drench) (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** Pyriproxyfen **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price/ea.	Case Price/Ea.
235-7090	1 qt. container	\$266.60	\$239.95 4/case

DURAGUARD ME

REI: 24 Hrs.



Microencapsulated Chlorpyrifos provides broad-spectrum control of a wide range of insects including aphids and spider mites (see label for full list).

Customer must have a pesticide applicator's license to purchase or apply this product.

Crops: For use on bedding plants, cut flowers, flowering hanging & potted plants, baskets, foliage, tree & shrubs in greenhouses, garden centers, interiorscapes, landscapes, and nurseries. **Rates:** 25

- 50 oz. per 100 gal. (Foliar Spray); 12.5 - 50 oz. per 100 gal. (Drench) (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** Chlorpyrifos **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/ea.	Case Price/Ea.
235-4013	1 gal. container	\$212.50	\$191.25 4/case

NUFARM **SAVE!** CHLORPYRIFOS E-PRO 2F

REI: 24 Hrs.

Chlorpyrifos E-Pro 2.32% Brand equivalent **Dursban.** Experience

consistent, proven control of more than 200 destructive pests with just one product - Chlorpyrifos E-Pro 2 Insecticide. From golf course turf to nursery stock, Chlorpyrifos E-Pro 2 can be used in a wide range of applications. It even provides area control of ticks and chiggers. Chlorpyrifos E-Pro 2 is a **Restricted: Use Pesticide.** **Crops:** Nursery Stock, ornamental plants and turf **Rates:** 1/6 to 2/3 fl oz per gallon **Application:** Spray **AI:** 24.66% Chlorpyrifos **Mfr:** Nufarm **SW:** Warning

Stock No.	Description	Price/ea.	Case Price/Ea.
235220402	2.5 gal. 2F	\$192.30	\$182.20 2/case

ENDEAVOR 50 WDG™

REI: 12 Hrs.

For control of aphids and whiteflies. Novel class of chemical causes insects to stop feeding within hours of ingestion. **Crops:** Landscape & container grown ornamentals, non-bearing fruit & nut trees in nurseries, Christmas trees, groundcovers & ornamentals in greenhouses, lath & shadehouses & interiorscapes. **Rates:** 2.5 - 5 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** Pymetrozinc **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/ea.	Case Price/Ea.
235-4017	15 oz. (6x2.5 oz packages)	\$176.00	\$158.40 8/case

ENSTAR® II IGR

REI: 4 Hrs.

Insect growth regulator that breaks the life cycle of the target insects, resulting in interrupted reproduction. Best results after 2-3 applications on a 7-14 day interval. Controls aphids, fungus gnats, scale, thrips, and whiteflies. **Crops:** For use on ornamentals in greenhouses, shadehouses, lath houses and interiorscapes. **Rates:** 5 - 10 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Warning **AI:** 65.1% Kinoprene **Mfr:** Wellmark International

Stock No.	Description	Price/ea.	Case Price/Ea.
235-4018	5 oz. package	\$76.71	\$69.05 24/case
235-4019	8x5 oz. grower pack	\$72.75	\$69.15 24/case

FLAGSHIP™ 25WG

REI: 12 Hrs.

For foliar and systemic control of insect pests including aphids, fungus gnats, and many more (see label for full list). **Crops:** Christmas trees & ornamental plants grown in greenhouses, lath & shadehouses, containers & field nurseries (including non-bearing fruit and nut trees). **Rates:** 2 - 4 oz. per 100 gal. (Foliar Spray); 0.9 oz. per 5000 sq. ft. (Drench) Please see label for specific rates. **Application:** Foliar Spray or Drench **SW:** Caution **AI:** 25% Thiamethoxam **Mfr:** Syngenta Crop Protection, Inc.

Stock No.	Description	Price/ea.	Case Price/Ea.
235-4135	8 oz. container	\$263.28	\$236.95 8/case

FLORAMITE® SC

REI: 12 Hrs.

Selective miticide for control of a variety of mites (see label for full list). **Crops:** All ornamental plants, including bedding, flowering, & foliage plants, bulb crops, perennials, trees & shrubs. For use in greenhouses, shadehouses, nurseries, and interiorscapes. **Rates:** 4 - 8 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 22.6% Bifenazate **Mfr:** Chemtura Corp.

Stock No.	Description	Price/ea.	Case Price/Ea.
235-4022	1 qt. container	\$299.00	\$269.10 8/case

GNATROL® WDG

REI: 4 Hrs.

Fungus gnat larvae. A larvacide that does not control adult fungus gnats. Problems with fungus gnats frequently come from greenhouse floors. **Crops:** For use in greenhouses for ornamentals & potting soil mixes. **Rates:** 16 - 128 oz. per 100 gal. (Please see label for specific rates.) **Application:** Drench **SW:** Caution **AI:** 6.38% Bacillus thuringiensis **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price/ea.	Case Price/Ea.
235-4185	16lb. bag	\$381.67	\$343.50 10/bags



HEXYGON® DF**REI: 12 Hrs.**

Provides effective control of major spider mite species through activity on eggs & immature stages. Control is achieved from either direct contact or with treated plant surfaces. Adult mites are not directly affected, however, eggs produced by females in contact with treated surfaces will be rendered inviable. **Crops:** Ornamental plants & non-bearing trees/ivies growing in nurseries, greenhouses, shade nurseries, greenhouses, shadehouses and Christmas tree plantations. **Rates:** 0.07 - 0.14 fl. oz. per 1000 sq. ft. or 1 - 2 fl. oz. per 100 gal. of solution. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 50% Hexythiazox **Mfr:** Gowan Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4113	6 oz. container	\$213.90	\$192.48 10/case

JUDO™**REI: 12 Hrs.**

Whitefly nymphs and pupal stages as well as knockdown and residual control of all developmental stages of mites. **Crops:** Shrubs, trees (including non-bearing fruit trees), flowers and foliage in greenhouses, shadehouses and plants grown in field and container nurseries. **Rates:** 2- 4 oz. per 100 gal. of solution. (See label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 45% Spiromesifen **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4144	8 oz. container	\$385.10	\$346.59 6/case

KONTOS™**REI: 24 Hrs.**

For foliar and systemic insect control on ornamentals, fruit and nut trees, and vegetable plants in greenhouses, nurseries and interiorscapes. Aphids, mealybugs, whiteflies, and other insects. **Crops:** Flowers, foliage plants, ground covers, vegetables transplants, ornamental in plug trays and shrubs. **Rates:** 0.7 to 3.4 fl oz per 100 gallons **Application:** Foliar spray, chemigation, ebb and flood **AI:** 22.4% Spirotetramat **Mfr:** OHP **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4205	250 ml.	\$167.45	\$150.71 6/case

M-PEDE®**REI: 12 Hrs.**

Effective contact insecticide, miticide and fungicide for control of soft body insects, mites and powdery mildew. Pests included but not limited to aphids, leaf hoppers, leaf miners, mealybug, scale, thrips and whiteflies. See label for full list of insects OMRI listed. **Crops:** Shrubs, shade & ornamental trees, turf, foliage, flowering and vegetable plants grown outdoors, in greenhouses and in interiorscapes. **Rates:** 0.63 - 2.5 fl. oz. per gal. (See label for specific rates.) **Application:** Broadcast Spray **SW:** Warning **AI:** 49% Potassium Salts of Fatty Acids **Mfr:** Dow AgroSciences

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4062A	2.5 gal. container	\$79.90	\$71.91 2/case

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**MARATHON®
1% GRANULAR****REI: 12 Hrs.**

For systemic control of aphids, fungus gnat larvae and many more (see label for full list). Systemic activity will move the insecticide upward within the plant, so the product should be placed where the roots can absorb it. **Crops:** Ornamental plants in greenhouses, nurseries and interior plantscapes. **Rates:** See label for specific rates. They vary with container size. **Application:** Topical Application **SW:** Caution **AI:** 1.0% Imidacloprid **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4038	5 lb. container	\$96.60	\$86.95 4/case
235-4039	50 lb. container	\$932.15	\$838.95 4/case

**NUFARM MANTRA
1G****REI: 12 Hrs.****SAVE!***Mantra 1G*Brand equivalent **Marathon**

1% G. Mantra 1G is an imidacloprid insecticide that provides both contact and residual control of sucking and piercing insects in greenhouse and nursery operations. Mantra 1G provides imidacloprid technology in convenient to use 1% granular formulation with a high degree of label flexibility for targeted pests and methods of applications. **Crops:** Ornamental plants in greenhouses, nurseries and interior plantscapes. **Rates:** See Label **Application:** Top dress and soil incorporation **AI:** 1% Imidacloprid **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4165	5 lb.	\$81.00	\$76.95 4/case
235-4166	50 lb. drum	\$776.15	\$737.35 4/case

MARATHON® 60 WP**REI: 12 Hrs.**

For systemic control of a variety of insects. See label for full list. Systemic activity will move the insecticide upward within the plant, so the product should be where the roots can absorb it. **Crops:** Ornamental and vegetable plants in greenhouses, nurseries and interior plantscapes. **Rates:** 1 pack per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** 60% Imidacloprid **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4032	100 grams (5-20g packets)	\$254.35	\$228.92 4/case

**NUFARM
IMIDA E-PRO 60WSP****REI: 12 Hrs.****SAVE!**

Brand equivalent **Marathon 60 WP**. Broad spectrum water soluble Systematic insecticide for greenhouses, nurseries and interior plantscapes. **Crops:** Ornamentals, vegetable plants and trees **Rates:** 1-20 gram water soluble packet to 6 gallons to treat 3000 sq ft **Application:** Foliar spray, drench, Ebb and Flood and soil injection **AI:** 60% Imidacloprid **Mfr:** Nufarm **SW:** Warning

Stock No.	Description	Price/Ea.	Case Price/Ea.
235220612	100 gram(5x20 Gr)	\$114.40	\$108.68 4/case



MARATHON® II

REI: 12 Hrs.

For foliar and systemic insect control of aphids, leaf miners, and more (see label for full list). **Crops:** Ornamentals, fruit and nut trees and vegetable plants in greenhouses, nurseries and interior plantscapes.

Rates: 1.7 oz. per 100 gal. (Please see label for specific rates.)

Application: Foliar Spray **SW:** Caution **AI:** 21.4% Imidacloprid

Mfr: OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4037	250 ml container	\$247.00	\$222.31 12/case

NUFARM MANTRA 2F

SAVE!

REI: 12 Hrs.

Mantra™ 2F

Brand equivalent **Marathon II**.

Mantra 2F is an imidacloprid insecticide that provides

both contact and residual control for sucking and piercing insects in greenhouse and nursery operations. Mantra 2F provides imidacloprid technology in a convenient to use two pound/gallon liquid SC formulation, with a high degree of label flexibility for targeted pests and methods of application. Pest include whiteflies, Thrips, aphids and many others. **Crops:** Greenhouse vegetables, trees, shrubs non-bearing fruit and nut trees, nurseries **Rates:** 1.7 fl oz per 100 gallon

Application: Foliar spray, soil drench **AI:** Imidacloprid **Mfr:** Nufarm

SW: Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235220610	250 ml	\$32.50	\$30.86 8/case

NUFARM IMIDA E-PRO T&O 2F

SAVE!

REI: 12 Hrs.

Imida E-Pro 2F
INSECTICIDE

Brand equivalent **Merit/ OHP**

Marathon. Systemic and foliar insect control in turfgrass, on fruit and nut trees, on ornamental

and vegetable plants in greenhouses, nurseries and interior plantscapes. Pest include whiteflies, aphids, mealybugs and many others.

Crops: Turfgrass, fruit and nut trees, ornamental and vegetable plants in greenhouses, nurseries and interior plantscapes **Rates:** 1.7 fl oz per 100 gallon **Application:** Foliar spray, soil drench, broadcast and ebb and flood **AI:** 21.4% Imidacloprid **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235220620	1 qt.	\$63.00	\$59.85 4/case
235220622	1 gal.	\$213.40	\$202.75 4/case

MAVRIK AQUAFLOW®

REI: 12 Hrs.

Insecticide/miticide for commercial use that works primarily through contact action, so good spray coverage is necessary. Treat when pests are immature or at a susceptible stage and populations are manageable, before plant damage occurs. **Crops:** Indoor plants in greenhouses, interior plantscapes, and flower/foliage cuttings and on outdoor plants in ornamental plantings, plantscapes (including trees & shrubs) and container nursery stock. **Rates:** 4 - 10 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** Fluvalinate **Mfr:** Wellmark International

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4036	1 qt. container	\$113.45	\$434.72 12/case
235-40361	1 gal. container	\$102.10	\$391.25 4/case

MERIT® 2.5 G

Systemic insect control of a variety of insects (see label for full list). Optimum control will be achieved when applications are followed by sufficient mechanical incorporation, irrigation or rainfall to move the active ingredient into the soil. Apply prior to infestation. **Crops:** For control in turfgrass and on landscape ornamentals. **Rates:** 1.4 - 1.8 lbs. per 1000 sq. ft. (See label for specific rates.) **Application:** Broadcast Application **SW:** Caution **AI:** 2.5% Imidacloprid **Mfr:** Bayer Environmental Sciences

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4043	4 lb. container	\$40.95	\$36.85 4/case

NUFARM MALLET 0.5 G

SAVE!

REI: 12 Hrs.

Mallet™ 0.5 G
INSECTICIDE

Brand equivalent **Merit**. Systemic insecticide for use on landscape ornamentals and turf grass for a wide spectrum of insects with

preventive and curative properties. **Crops:** Landscape ornamentals and turf **Rates:** 1.2-1.8 Lb per 1000 sq ft **Application:** Spreader **AI:** 0.5% Imidacloprid **Mfr:** Nufarm **SW:** Caution

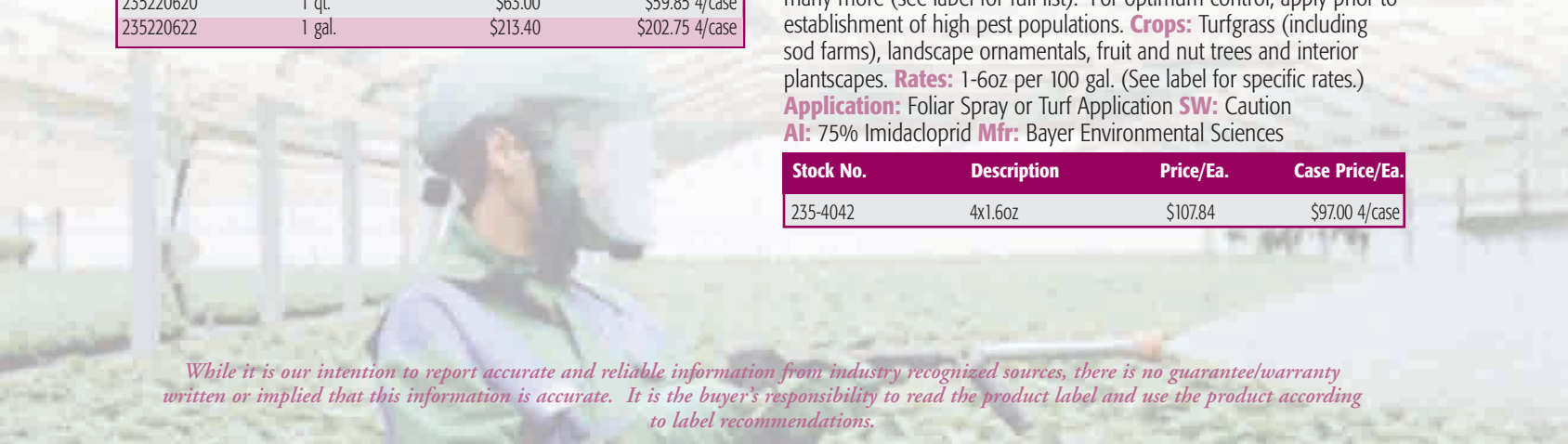
Stock No.	Description	Price/Ea.	Case Price/Ea.
235220604	30 lb.	\$35.10	\$33.35 10/case

MERIT® 75 WSP

REI: 12 Hrs.

For foliar and systemic insect control of aphids, green June beetles, many more (see label for full list). For optimum control, apply prior to establishment of high pest populations. **Crops:** Turfgrass (including sod farms), landscape ornamentals, fruit and nut trees and interior plantscapes. **Rates:** 1-6oz per 100 gal. (See label for specific rates.) **Application:** Foliar Spray or Turf Application **SW:** Caution **AI:** 75% Imidacloprid **Mfr:** Bayer Environmental Sciences

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4042	4x1.6oz	\$107.84	\$97.00 4/case



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MALLET 75 WSP **SAVE!** NUFARM



REI: 12 Hrs.
Brand equivalent **Merit 75 WP**. Mallet 75 WSP, in addition to protecting the health of turf and landscape

ornamentals from within the plant, provides fast knock-down, broad-spectrum control, long lasting grub and insect control with preventative and curative properties. Mallet 75 WSP Turf Insecticide contains imidacloprid for consistent performance and flexible application timing. **Crops:** Turfgrass (including sod farms), fruit and nut trees, landscape ornamentals and interior plantscapes **Rates:** 1.6 oz per 8,250 to 11,000 sq ft. **Application:** Foliar, drench and soil injection **AI:** 75% Imidacloprid **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235220606	4x1.6 oz.	\$35.15	\$33.40 4/case
Also available in the below formulation – see label for specific instructions			
235220608	2.5 gal.	\$533.46	\$506.80 2/case
235220609	60 oz.	\$126.28	\$119.97 8/case

MESUROL® 75% WP **REI: 24 Hrs.**

For control of aphids, mites, slugs, snails, and western flower thrips. **Customer must have a pesticide applicators license to purchase this product.** **Crops:** Ornamentals in nurseries and greenhouses for flowers, shrubs and trees. **Rates:** 0.5 - 2 lbs. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Danger **AI:** 75% Methiocarb **Mfr:** Gowan Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4044	2 lb. container	\$199.25	\$179.33 6/case

ORNAZIN 3% EC **REI: 12 Hrs.**

For a variety of insects including aphids, beetles, flies and more. See label for full list. **Crops:** For use in greenhouses, shadehouses, interiorscapes & nurseries on turfgrass, shrubs, trees & ornamentals, and greenhouse food crops. **Rates:** 8 - 10 oz. per 100 gal. (Foliar Spray); 8 - 15 oz. per 100 gal. (Drench) (See label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Warning **AI:** 3% Azadirachtin **Mfr:** SePRO Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4046	1 qt. container	\$200.15	\$180.14 6/case

ORTHENE® 97 T&O **REI: 24 Hrs.**

Broad-spectrum systemic insecticide that kills insects as they feed. For aphids, mealybugs, thrips & more (see label for list). **Crops:** For use on ornamentals, trees and turf, including nurseries, shrubs, greenhouse floral and foliage crops, ground covers and turf. **Rates:** 1/4-3/4 lb 100 gal. 1-4 WSP per 100 gal. **Application:** Foliar Spray **SW:** Caution **AI:** 97% Acephate **Mfr:** Amvac

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-40451	3x.33 WSP	\$14.57	\$12.83 12/case
235-40452	0.77 lb. can	\$17.00	\$15.30 2/case

NUFARM **SAVE!** ACEPHATE E75 WSP **REI: 24 Hrs.**



Brand equivalent **Orthene**. For more than 25 years, industry professionals have depended on acephate, the active ingredient in Acephate E 75 WP Insecticide, for excellent, broad-spectrum control of more than 40 insect pests. With its high quality, water-soluble formulation Acephate E 75 WP Insecticide works both systemically an on contact to offer outstanding performance and reliability.

Crops: Container-grown nursery stock, ornamental trees and shrubs, greenhouses, foliage plants and Turfgrass **Rates:** 1/8-2-2/3 lb per 100 gallons **Application:** Foliar spray **AI:** 75% Acephate **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235220802	10 lb. WSP	\$161.70	\$153.62 4/case
Also available in the below Ag formulation – see label for specific instructions			
235220804	1 lb. WP	\$16.90	\$16.07 12/case

OVATION SC **REI: 12 Hrs.**

Ovicide/miticide for control of mites (see label for full list) in both egg and early adult stages. Protect your plants from a variety of mites for up to 45 days. **Crops:** For use in greenhouses and shade houses and on outdoor container and field grown nursery stock. **Rates:** 2 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 42% Clofentezine **Mfr:** The Scotts Sierra Corp Protection Co.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4047	1 pint container	\$316.40	\$284.75 4/case

OVERTURE **REI: 12 Hrs.**

Overture® Insecticide is a new generation product that controls immature and adult thrips with a new mode of action (MOA) for resistance management. Overture also controls the larvae of various lepidopteran insect pests. **Crops:** Can be used on greenhouse grown ornamentals including flowering and foliage crops, ground covers, shrubs and ornamental trees, and non-bearing fruit and nut trees grown indoors. **Rates:** 4-2 oz. packets per 100 gal. per 20,000 sq ft **Application:** Foliar Spray **SW:** Caution **AI:** Pyridalyl **Mfr:** Valent

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4190	16 oz (8x2 oz) WSP	\$104.32	\$93.89 8/case

PEDESTAL™ **REI: 12 Hrs.**

Effective for the control of thrips, whiteflies, leaf miners and army-worms. **Crops:** Container grown ornamentals in greenhouses, shade houses and outdoor nurseries. **Rates:** 6 - 8 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** Novaluron **Mfr:** Chemtura Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4050	1 qt. container	\$245.75	\$221.18 8/case

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PYLON®

REI: 12 Hrs.

For control of adult larvae and nymph mites. The newest unique miticide on the market today. With translaminar systemic abilities, it offers contact control as well as long residual control. **Crops:** Ornamentals grown in commercial greenhouses. **Rates:** 2.6 - 10 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** Chlorophenyl **Mfr:** OHP, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4066	1 pt.	\$501.40	\$451.25 6/case

PYRETH-IT

REI: 12 Hrs.

Natural Pyrethrum for indoor and outdoor use. Offers a quick knock-down on a wide range of insects including aphids, fruit flies, and thrips (see label for full list). **Crops:** Ornamentals, vegetables, and tree crops. **Rates:** 2 - 16 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** Pyrethrins **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4110	1 qt. container	\$86.63	\$77.96 12/case
235-4111	1 gal. container	\$332.83	\$299.55 4/case

SAFARI® 20 SG

REI: 12 Hrs.

New generation super-systemic insecticide with quick uptake and knockdown that controls a wide spectrum of pests (see label for full list). It features unsurpassed residual control, which means you can apply less and less often. When applied as a drench, it provides up to 90 days of control **Crops:** Greenhouse and outdoor use. **Rates:** 0.25 - 0.5 lb. per 100 gal. (Foliar Spray); 0.75 - 1.5 lbs. per 100 gal. (Drench) (Please see label for specific rates.) **Application:** Foliar Spray or Drench **SW:** Caution **AI:** Dinotefuran **Mfr:** Valent U.S.A. Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4146	3 lb. container	\$421.55	\$379.40 4/case

SANMITE® 75WP

REI: 12 Hrs.

A unique long-term miticide/insecticide for control of mites and whiteflies. Unlike other products that work on the nervous system, Sanmite blocks cellular respiration, causing pests to lose mobile coordination and to collapse. **Crops:** Ornamental plants, flowers and foliage crops in greenhouses & outdoors crops. **Rates:** 4 - 6 oz. per 100 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Warning **AI:** 75% Pyridaben **Mfr:** BASF Chemical Co.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4065	1/4 lb. bag (4 - 1 oz. packets)	\$103.35	\$93.02 4/case

SHUTTLE™ O

REI: 12 Hrs.

Because of its unique chemical class, SHUTTLE O is an excellent choice as a rotational tool for control of two-spotted spider mites, spruce spider mites, and other mites because of its unique chemical class. **Crops:** FOR USE ON GREENHOUSE, SHADEHOUSE, AND FIELD-GROWN ORNAMENTAL, FLORAL, FOLIAGE, AND NURSERY CROPS, AND INTERIORSCAPES **Rates:** 6.4 to 12.8 fl oz per 100 gallon **Application:** Foliar spray **SW:** Caution **AI:** 15.8% Acequinocyl **Mfr:** OHP

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4208	1 qt.	\$297.37	\$267.65 12/case

TALSTAR® SELECT

REI: 12 Hrs.

For a wide range of insect pests including aphids, fungus gnats, and leaf miners. See label for a full list of insects controlled. **Restricted use. Crops:** For commercial non-food use on indoor and outdoor ornamentals, greenhouses, nurseies, turf on golf courses and sod farms. **Rates:** 0.80 - 4 oz. per 10 gal. (Please see label for specific rates.) **Application:** Foliar Spray **SW:** Caution **AI:** 7.9% Bifenthrin **Mfr:** FMC Agricultural Products

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-40951	1 gal. (nursery use)	\$79.28	\$71.35 4/case

NUFARM MENACE® 7.9% GC

SAVE!

REI: 12 Hrs.

Brand equivalent **Talstar**. Menace 7.9% Flowable insecticide is a liquid concentrate containing 7.9% bifenthrin for the control of a wide variety of insect pests in nearly all residential and commercial settings. Menace 7.9% Flowable is a fast-acting synthetic pyrethroid with low to no odor and provides quick knock-down of insects, quickly ensuring healthier turf and public environments. **Restricted Use Pesticide. Crops:** Greenhouse and nursery crops **Rates:** 0.80- 4.0 fl oz per 10 gallons **AI:** Spray and drench **Application:** 7.9% Bifenthrin **Mfr:** Nufarm **SW:** Caution

Stock No.	Description	Price/Ea.	Case Price/Ea.
235221202	1 gal.	\$48.35	\$45.95 4/case

TALUS 40 SC IGR

REI: 12 Hrs.

Leafhoppers, mealybugs, plant hoppers, scale & whiteflies. Insect growth regulator that delivers toxicity to pests via contact, ingestion & vapor activity. There is little or no systemic movement of Talus in plants, but its vapor activity allows it to reach leaf undersides where many pest species dwell and to help protect new growth. It also suppresses egg laying and causes egg sterility in treated adults. **Crops:** Labeled for application on greenhouse tomatoes; ornamental plants in greenhouses, nurseries, lath and shadehouses; non-bearing fruit trees, nut trees and vines in nurseries; landscape ornamentals, field & container grown ornamental, groundcovers & Christmas trees. **Rates:** 9-18 fl. oz/100 gal. (See label for specific rates.) **Application:** Foliar Spray **SW:** Warning **AI:** 40% Buprofezin **Mfr:** SePRO Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4149	1 qt	\$152.65	\$137.40 6/case

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ORTHENE TR 1300

REI: 24 Hrs.



Easy-to-use, total release insecticide for the control of aphids, cankerworms, fungus gnats, leaf miners, mealybugs, scale, spider mites, thrips, whiteflies and more (see label for full list). **Crops:** For use in greenhouses on bedding plants, cut flowers, flowering hanging and potted baskets, foliage, and ornamentals. **Rates:** 6 oz. can per 2250 - 4500 sq. ft. (See label for specific rates.) **Application:** Total Release **SW:** Caution **AI:** Acephate **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4057	6 oz. (3M) can	\$16.42	\$14.78 12/case

PRECLUDE TR

REI: 12 Hrs.



Easy-to-use, total release insecticide for the control of aphids, caterpillars, cutworms, leaf miners, mealybugs, mites, scale, thrips, weevils and whiteflies. **Crops:** For use in greenhouses on bedding plants, cut flowers, flowering hanging baskets, foliage, potted flowering plants and ornamentals. **Rates:** 2 oz. can per 1500 - 3000 sq. ft. (See label for specific rates.) **Application:** Total Release **SW:** Caution **AI:** Fenoxycarb **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4064	2 oz. (3M) can	\$13.50	\$12.00 12/case

PYRETHRUM TR

REI: 12 Hrs.



Easy-to-use, total release insecticide for the control of aphids, Beetles, fungus gnats, mealy bugs and more (see label for full list). **Crops:** For use in garden centers, greenhouses, hobby greenhouses and nurseries. Label includes herbs and vegetables. Also for use on ornamental and flowering plants, such as bedding plants, cut flowers, and hanging and potted flowering plants. **Rates:** 2 oz. can per 1500 - 3000 sq. ft. (See label for specific rates.) **Application:** Total Release **SW:** Caution **AI:** Pyrethrins and Piperonyl Butoxide **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7072	2 oz. (3M) can	\$14.38	\$12.95 12/case

TAME/ORTHENE

REI: 24 Hrs.



Easy-to-use insecticide for the control of aphids, cankerworms, fungus gnats, leaf miners, mealy bugs & more (see label for full list). **Crops:** For use in greenhouses on bedding plants, cut flowers, flowering hanging baskets, foliage, potted flowering plants and ornamentals. **Rates:** 16 oz. per 1500 - 3000 sq. ft. (See label for specific rates.) **Application:** Total Release **SW:** Warning **AI:** Fenpropathrin and Acephate **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4125	1 lb. can	\$13.35	\$12.00 12/case

X-CLUE 1600



Insecticide to control a wide variety of insects including aphids, beetles, fungus gnats & more (see label for full list). **Crops:** For use in hobby greenhouses, homes, interiorscapes and landscapes on potted and flowering plants, foliage, bedding plants, cut flowers and ornamentals. **Rates:** 5 - 10 sec. per 100 sq. ft. (See label for specific rates.) **Application:** Total Release (direct spray) **SW:** Warning **AI:** Pyrethrins, Piperonyl Butoxide and Dicarboximide **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4096	20 oz. can	\$10.95	\$9.84 12/case

SENSOR 3X5 YELLOW MONITORING CARDS

REI: 12 Hrs.



Provide the monitoring that is basic to successful implementation of Prescription Treatment strategies. Monitoring provides an early warning system against insect invasions and rapid outbreaks. Sensor Monitoring Cards are the best way to eliminate guesswork by evaluating if your insect control program is working. Catches winged aphids, leafminer adults, thrips and more (see label for full list). **Rates:** Start with one card per 500 sq. ft. Use additional cards to better monitor entry points (doors & vents), to better determine "hot" spots within susceptible varieties and to monitor low level populations. **Application:** Place just above the canopy where flight occurs. **Mfr:** Whitmire Micro-Gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4077A	1 pk/48 cards	\$16.45	\$14.81 12/case

ATTAIN TR

REI: 12 Hrs.



A ready-to-use micro, total release insecticide for control of aphids, fungus gnats, thrips, whiteflies and more (see label for full list). **Rates:** 2 oz. per 1500-3000 sq. ft. (See label for specific rates.) **Application:** Total Release **SW:** Warning **AI:** Bifenthrin **Mfr:** Whitmire Micro-gen

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-4061	2 oz. can	\$14.30	\$12.87 12/case

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EXOTHERM TERMIL FUNGICIDE FUMIGATOR **REI: 12 Hrs.**



Powerful fungicide for excellent control of leaf spot and foliar blights, flower spots and blights, phytophthora leaf blight and dieback, powdery mildew and rusts. See product label for all diseases controlled. **Crops:** For use in the greenhouse only. (see label for crop listings). **Rates:** 3.5 oz. can treats 1000 sq. ft.

Application: Smoke **SW:** Danger **AI:** 20%

Chlorothalonil **Mfr:** AllPro - T/A Value Garden Supply

Stock No.	Description	Price
235-6001	24 cans per case (10M)	\$100.00

FULEX DDVP FUMIGATOR



Broad spectrum organophosphate combining the power of smoke fumigation with the effectiveness of a powerful contact insecticide, giving full control over adult whitefly, spider mites, aphids and mealy bugs. Restricted use insecticide for CT, NH, NJ and NY. **Crops:** For use in the greenhouse ONLY. (see label for crop listings).

Rates: 10.2 oz. can treats 20,000 cu. ft. **Application:** Fumigation **SW:** Danger **AI:** 11.09% Dichloroxy

Mfr: Fuller Systems, Inc.

Stock No.	Description	Price
235-6007	12 cans per case (10M)	\$110.11
235-6008	12 cans per case (20M)	\$170.17

FULEX NICOTINE FUMIGATOR



Broad spectrum botanical combining the power of smoke fumigation with effectiveness of the most powerful contact insecticide available, giving full control over adult whitefly, spider mites, aphids and mealybugs. Restricted use chemical. **Crops:** For use in the greenhouse ONLY. (see label for crop listings).

Rates: 12 oz. can treats 20,000 cu. ft. **Application:** Fumigation **SW:** Danger **AI:** 13.4% Nicotine **Mfr:** Fuller Systems, Inc.

Stock No.	Description	Price
235-6003	12 cans per case (10M)	\$120.00
235-6004	12 cans per case (20M)	\$180.00

FULEX PERMETHRIN FUMIGATOR **REI: 24 Hrs.**



Permethrin combines the power of smoke fumigation with the effectiveness of a powerful contact insecticide, giving full control over adult whitefly, spider mites, aphids and other greenhouse pests. Use in rotation with Fulex Nicotine Fumigator and Fulex DDVP Fumigator. For use in greenhouse only. See label for application rates. **AI:** 10.75% Permethrin. **SW:** Danger, Restricted use chemical. **Mfr:** Fuller Systems.

Stock No.	Description	Price
235-6010	10M 12 cans/case	\$100.10
235-6015	20M 12 cans/case	\$160.16

REI FOR NICOTINE, DDVP, EXOTHERM TERMIL, PERMETHRIN MUST BE ONE OF THE FOLLOWING:

- 10 Air Exchanges.
- 2 hours of Mechanical Ventilation.
- 4 hours of Passive Ventilation.
- 11 hours of Smoke Preceded by 1 hour of Mechanical Ventilation.
- 11 hours of Smoke Preceded by 2 hours of Passive Ventilation.
- 24 hours of Smoke

Customer must have a pesticide applicator's license to purchase any one of these smoke generators.

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ADJUVANTS CAPSIL

A highly effective nonionic spray adjuvant for use with water based fungicides, insecticides, miticides, micronutrients, herbicides and defoliant. Optimizes pesticide applications by improving the distribution and rainfastness of foliar applied sprays. **Crops:** Can be used with aerial applications, liquid fertilization and on cuttings. **Rates:** 6 - 16 oz. per 100 gal. (Please see label for specific rates.) **Application:** Spray Adjuvant (Consult Manufacturer's Label) **SW:** Caution **AI:** Polyether-polymethylsiloxane Copolymer and Nonionic Surfactant **Mfr:** The Scotts Company

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7085	1 gal. container	\$93.90	\$84.50 4/case

NU-FILM -P

A superior sticking agent designed for use with industrial herbicides. It is compatible in the spray tank with most commercially used products. It forms a sticky, elastic film which tenaciously holds the herbicide on the plant foliage and greatly reduces rainfall erosion of the spray residue. **Crops:** Non-crop areas **Rates:** 8 - 12 oz. per 100 gal. of water (Ground Application); 1 - 2 oz. per 5 gal. of water (Spray Application) **Application:** Spray Adjuvant (Consult Manufacturer's Label) **SW:** Caution **AI:** Poly-l-p-Menthene **Mfr:** Miller Chemical and Fertilizer Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7035	1 gallon	\$40.85	\$36.80 4/case

INDICATE 5

pH Indicator, Acidifier, Water Conditioner and Wetter/Spreader. INDICATE 5 is the only adjuvant that contains a built-in pH indicator. Indicate 5 changes color of the spray water when the optimum pH has been achieved. INDICATE 5 counters both the detrimental effects of high pH and hard water on sensitive pesticides. Chemicals sensitive to alkaline hydrolysis include: Glyphosate, Organo Phosphates, Synthetic Pyrethroids, Carbamates, Chlorinated Hydrocarbons, Triazines and others. INDICATE 5 acts as a wetting, spreading and penetrating agent resulting in an even film of spray over the leaf and better pesticide performance. **Rates:** will vary from 5 - 30 oz per 100 gallons of water depending on water quality and hardness. **Mfr:** Brandt Consolidated

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-5670	1 gallon	\$42.70	\$38.43 4/case

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MISCELLANEOUS BLUE COLORANT

Takes the guesswork out of spraying. It's the proven and professional way to apply liquid pesticides and fertilizers. Dissipates quickly in either wet or dry weather, making it the ideal temporary spray colorant. The distinctive blue color shows you exactly where you've sprayed, preventing skips and overlaps and helping to pinpoint drift. **Rates:** Rates may be adjusted up or down for more or less intense color. See label for specific rates. **Application:** Herbicide and Fertilizer application additive.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7056	1 qt. container	\$18.40	\$16.56 12/case
235-7058	2.5 gal. container	\$137.40	\$123.66 2/case

DEFOAMER

Cleary's Defoamer is a water dispersible anti-foaming agent designed for the prevention or suppression of foam formation in spray tank solutions during agitation. It is specially formulated for compatibility with most of the pesticides commonly used for the turf and ornamental industry. Cleary's Defoamer is a nonionic formulation, offering superior uniformity and compatibility in the spray tank. **Rates:** 1 pt. (16 fl. oz.) per 100 gal. of spray volume (rate may be adjusted depending upon the foaming ability of the materials used in the tank solution). **Application:** Tank Mix **SW:** Caution **AI:** Dimethylpolysiloxane Suspension **Mfr:** Cleary Chemical Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7032	1 qt. container	\$7.75	\$6.98 12/case

TANK CLEANER

Cleary's Tank Cleaner is an effective and economical liquid which cleans the spray equipment while inhibiting rust and solubilizing the residual pesticides in the tank, leaving a rinsate which is harmless to turf. **Rates:** Equipment Cleaning: 1 qt. into 29 gal. of water for each 100 gal. of spray tank capacity. **Application:** Tank Mix **SW:** Caution **AI:** Alkaline ethoxylate of a nonionic surfactant. **Mfr:** Cleary Chemical Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7034	1 qt. container	\$6.00	\$5.40 12/case

ANTI-GROWTH



An EPA registered antimicrobial product that safely, economically, and effectively stops the growth of mold, mildew, algae and moss for extended periods of time. Unlike the cleaning products currently available to remove spore growth, Anti-Growth was formulated specifically to prevent the growth from coming back. Applied as a liquid it forms a clear, invisible shield that kills fungicidal spores as they try to grow. **Rates:** 1 - 2 parts per 24 parts of water. **Application:** Cloth, Brush or Sprayer **SW:** N/A **AI:** Didecyl Dimethyl Ammonium Chloride **Mfr:** GSI Horticultural

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7110	1 qt. container	\$54.29	\$48.86 12/case



ANTI-TRANSPIRANTS

MOISTURIN

REI: 24 Hrs.



A dual purpose clear liquid plant coating that forms a prophylactic shield around plants and significantly reduces plant stress due to water loss when applied to tree and plant surfaces. This physical barrier also protects the plant against damage from insects, disease, UV degradation, frost, windburn and acid rain. With a single application of Moisturin you create multiple benefits for your trees and plants.

This is extremely cost effective for the grower and the reduction of toxic chemicals going into the soil or ground water is beneficial to the earth. **Rates:** 2-30 parts per 100 parts water. See label for specific rates. **Application:** Sprayer **Mfr:** GSI Horticultural

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7101	5 gal. pail	\$288.37	\$259.53 5/case

STASIS



Drench Anti-Transpirant

Unlike foliar spray anti-transpirants, STASIS is drenched into the soil with irrigation water. When contact with the root system occurs, plants react and naturally raise their own ABA level

(abscisic acid), thus, producing self-induced stomatal closing. Plants will stay in a "drought-resistant" state for up to three weeks or until normal watering is resumed. STASIS treated plants have reduced sensitivity to stress from drought, shipping, transplanting and storage. STASIS is more suitable for annuals and perennials than foliar anti-transpirants. **Rates:** 2-10 parts to 100 parts of water. **Mfr:** Drench **Mfr:** Natural Industries

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7130	1 gallon	\$52.40	\$471.2 4/case
235-7135	2.5 gallon	\$126.95	\$114.35 2/case

VAPOR GARD



A water emulsifiable organic concentrate for use on plants to reduce water transpiration. The soft, flexible film formed after the spray application dries will significantly reduce moisture loss from plant foliage. No additional spreader is needed with Vapor Gard. Sunlight for this time period is needed for the protective film to set. **Rates:** See label for specific rates.

Mfr: Spray or Dip **SW:** Caution **AI:** 96% di-1-p-Menthene **Mfr:** Miller Chemical and Fertilizer Corp.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7050	1 gal. container	\$51.75	\$46.58 4/case
235-7052	2.5 gal. container	\$126.73	\$114.06 2/case

ROOTING HORMONES

DIP 'N GROW

REI: 24 Hrs.

For use as a rooting compound. A liquid concentrate that may be diluted to any concentration. Crops: Use as a dip for succulent, softwood, mediumwood and hardwood cuttings. See label for crop listings. **Rates:** Softwood: 1 part to 20 parts water; Hardwood: 1 part to 5 parts water (Please see label for specific rates.) **Application:** Dip **SW:** Caution **AI:** Indole-3-butyric acid, naphthaleneacetic acid **Mfr:** Dip 'N Grow, Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-5002	1 pt. container	\$36.24	\$32.60 12/case
235-5003	1 gal. container	\$206.00	\$185.40 4/case

HORMEX ROOTING POWDER

Our rooting powders have three different strengths to customize the best environment of the finest plant growth hormones for rapidly rooting different varieties of plants. The different strengths work on Ground cover, Roses, Orchids, Shrubs and difficult to propagate evergreens. Hormex will help root soft, semi-woody and extremely difficult to propagate species.

HORMEX ROOTING POWDER #1:

African Violet, Cottonwood, Poplar, Azalea Pink Pearl, Dogwood, Mock Orange, Azalea Snow, Begonia, Bougainvillea, Carnation, Chrysanthemum, Coleus, Euonymus, Fuchsia, Geranium, Hydrangea, Jasmine, Mock Orange, Philodendron, Poinsettia, Raspberry, Rose, Sage, Verbena, Willow.

HORMEX ROOTING POWDER #3:

Boxwood, Holly, Arbor-vitae, Azalea Dauricum, Ice Plant, Azalea Mollis, Blueberry, Daphne, Elder, Ivy, Rose, Pyracantha, Juniperus Chinensis Pfitzeriana, Juniperus Sabina Fastigiata, Sequoia Gigantea

HORMEX ROOTING POWDER #8:

Azalea Arborescens Grandiflora, Cypress, Olives, Magnolias, Azalea Canescens, Azalea Roseum, Grape, Juniper varieties, Lilac, Maple, Privet, Rhododendrom varieties

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-5010	#1 - 1 lb.	\$14.97	\$13.47 12/case
235-5011	#3 - 1 lb.	\$22.32	\$20.09 12/case
235-5012	#8 - 1 lb.	\$29.80	\$26.82 12/case



ULTRA-SHIELD CHLORINE DIOXIDE WATER TREATMENT SYSTEM



Ultra-Shield is a unique patented formulation of sodium chlorite in tablet form that rapidly releases highly soluble chlorine dioxide gas when dissolved in water. Like ozone and chlorine, chlorine dioxide is an oxidizing biocide that kills microorganisms by disruption of the transport of nutrients across the cell wall. Chlorine dioxide is commonly used as a sanitizing agent, disinfectant and algicide in and around water

systems and surfaces. Used in recirculating and non-recirculating irrigation systems. **Controls:** Can be used in all ornamental greenhouses, nurseries, shade houses, garden centers, and florists to disinfect, sanitize, treat and inhibit algae, microbes, bacterial, fungal and viral plant pathogens on or in: **Crops:** Commercial Ornamental Greenhouses, Nurseries, Shade Houses, Garden Centers and Florists **Rates:** See Label **Application:** Irrigation **AI:** 20.8% Sodium Chlorite & 7.0% Sodium Dichloroisocyanurate dehydrate **Mfr:** Whitmire Micro-Gen **SW:** Danger

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7020	10-102g pouches	\$136.21	\$122.59 4/case

WETTING AGENTS AQUA-GRO L

Aqua-Gro L with PsiMetric Technology was developed specifically to overcome water repellency in soilless mixes so they perform at full capacity from the start of production until the plants are shipped out the door. University research has proven and grower experience has verified that plants thrive when Aqua-Gro L is consistently applied throughout production. This practice ensures that water repellency is addressed on an ongoing, real-time basis so that the mix continues to wet and drain uniformly and all nutrients and soil directed fungicides are available to feed and protect the plant. **Rates:** 2-4 oz per cubic yard **Application:** soil incorporation or irrigation **Mfr:** Aquatrols

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7073	1 gal	\$71.99	64.80 4/case
235-70731	2.5 gal	\$161.81	145.63 2/case

AQUAGRO 2000 G

AquaGro 2000 G media surfactant helps you over-come water repellency and control the moisture in your mix. The hydrophobic (water repellent) part of AquaGro 2000 G attaches to the water repellent surface of the peat or bark while the hydrophilic (water receptive) part interacts with water so water repellent particles can be wetted. This mode of action ensures wettability of the mix allowing water to spread uniformly throughout the container. **Rates:** 1 lb per cubic yard **Application:** soil incorporation **Mfr:** Aquatrols

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7063	44 lb	\$193.16	\$173.85 5/case

SOAX



SOAX® especially improves wetting and rewetting in mixes containing peat moss, bark, or other water repellent materials. Wetting agents will help you maintain a better balance of water distribution and drainage for all your crop needs. SOAX® is available in a liquid form for use in constant feed fertilizer

injection programs or incorporation into various types of growing media mixes. SOAX® Wetting Agent can be used in growing medias for plant seedlings and propagated cuttings, bedding plants, pot plants, and woody ornamentals. **Rates:** 3-8 oz per cubic yard. **Application:** soil incorporation or irrigation. **Mfr:** Oasis Grower Products

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7040	1 gallon	\$73.85	\$66.47 4/case
235-7041	5 gallon	\$330.73	297.65 2/case

SOIL MOIST



Soil Moist polymer granular is a soil amendment designed to reduce plant waterings by 50%, reduce transplant shock and soil compaction, and will remain

effective in the soil for 3-5 years. It is an inexpensive form of insurance for the plant and is environmentally friendly. Soil Moist saves time, labor and plant loss. Ideal for containers, baskets, flower beds, window boxes, trees, shrubs, turf and perennials. **Rates:** 2 lb per cubic yard of soil **Application:** Incorporate into soil **Mfr:** JRM Chemicals Inc.

Stock No.	Description	Price/Ea.	Case Price/Ea.
235-7122	8 lb plastic pail	\$77.35	\$69.62 4/case
235-7124	30 lb plastic pail	\$249.22	\$276.91 2/case
235-7128	50 lb fiber box	\$343.76	\$309.38 2/case

