



Green **ard**®

2025 TURF GUIDE

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The Product Information contained herein was correct as of the publication date, but is subject to change without notice. NOT ALL PRODUCTS AND USES REFERENCED IN THIS GUIDE ARE REGISTERED FOR USE IN ALL STATES. PLEASE CONTACT THE PRODUCT MANUFACTURER REPRESENTATIVE FOR CLARIFICATION.

This publication is intended for use only as a guide in providing general information regarding the products available. As with any pesticide, always follow the label instructions on the container before using the product. As a reminder, "The Pesticide Label is the Law!"

GreenYard[®]

**PREMIUM
TURFGRASS
SEEDS**

PREMIUM TURFGRASS SEEDS



CUSTOM LINKS

Recommended use for: Home Lawn, Golf Courses

- Can be left unmown or down to 1"
- Great for erosion control or mixed with wildflowers
- Tolerates neglect – including acidic soil, low fertility, reduced irrigation
- Includes high-endophyte fescues for disease resistance
- Works well in shade

50% Proprietary Creeping Red Fescue

25% Proprietary Hard Fescue

25% Proprietary Sheep's Fescue

Available in 50-lb. bags

DELUXE

Recommended use for: Home Lawn, Baseball & Softball Fields, Parks, Playgrounds

- Great for general purpose lawns or large areas
- Good for sun and moderate shade
- Low to average maintenance requirements
- Does well with all soil types

34% Kentucky Bluegrass

33% Creeping Red Fescue

33% Turf Type Perennial Ryegrass

Available in 50-lb., 25-lb., and 5-lb. bags

DURATURF

Recommended use for: Parks, Playgrounds

- Economical mixture
- Extra quick cover
- Tolerates traffic and punishment
- Perfect for large areas

35% Annual Ryegrass

30% Turf Type Perennial Ryegrass

20% Kentucky Bluegrass

15% Creeping Red Fescue

Available in 50-lb. and 25-lb. bags

GRAND SLAM

Recommended use for:

All Sports Fields, Golf Courses

- Excellent for use on large areas
- Rapid establishment for quick greening
- Requires average maintenance
- Top elite varieties for lasting performance and color

50% Proprietary Turf Type Perennial Ryegrass

50% Proprietary Kentucky Bluegrass

Available in 50-lb. bags

GREENYARD 90/10

Recommended use for: All Sports Fields, Golf Courses, Home Lawn

- Excellent heat and drought survival
- Excellent wear tolerance
- Low maintenance requirements
- Good, dense turf

90% Turf Type Tall Fescue

10% Proprietary Kentucky Bluegrass

Available in 50-lb. bags

PLAYGROUND

Recommended use for: Home Lawn, Playgrounds, All Sports Fields

- Excellent for large lawns
- Performs great in heavy-traffic areas
- Very drought tolerant
- Performs well in shady areas

80% Proprietary Turf Type Tall Fescue

15% Proprietary Turf Type Perennial Ryegrass

5% Proprietary Kentucky Bluegrass

Available in 50-lb. and 25-lb. bags

PREMIUM ATHLETIC GOLD

Recommended use for:

All Sports Fields, Golf Courses

- Top varieties, dark green color, disease resistant
- Excellent for high-traffic areas
- Average maintenance requirements
- Excellent for overseeding damaged sports turf

80% Proprietary Kentucky Bluegrass

20% Proprietary Turf Type Perennial Ryegrass

Available in 50-lb. bags

PREMIUM TURFGRASS SEEDS

RAPID COVER

Recommended use for: Home Lawn, Playgrounds, All Sports Fields, Golf Courses

- Excellent for quick overseeding of damaged areas
- Early green-up and dark green color
- Mixes well with other grasses
- Blend of top-performing fine-leaf varieties

100% Proprietary Turf Type
Perennial Ryegrass
Available in 50-lb. and 25-lb. bags

SHADY LAWN

Recommended use for: Home Lawn, Parks

- Specially mixed for partial shade
- Requires normal maintenance
- Maintains good color in mixed shade and sun
- Improved resistance to shade diseases

40% Proprietary Kentucky Bluegrass
20% Proprietary Chewings Fescue
20% Creeping Red Fescue
20% Proprietary Turf Type Perennial Ryegrass
Available in 50-lb., 25-lb., and 5-lb. bags

SHORT CUT BLUE

Recommended use for:
All Sports Fields, Golf Courses

- Premium certified bluegrass
- Low growth habit
- Darker genetic color
- Excellent disease resistance
- Ideal for sod

100% Proprietary Kentucky Bluegrass
Available in 50-lb. bags

SUPREME LAWN

Recommended use for: Home Lawn,
Playgrounds, All Sports Fields

- Good for partial shade
- Maintains good color
- Easy to establish with average maintenance
- Appealing turf quality with quick cover

60% Proprietary Kentucky Bluegrass
40% Proprietary Turf Type
Perennial Ryegrass
Available in 50-lb., 25-lb., and 5-lb. bags

TOUGH LAWN

Recommended use for: Home Lawn,
Parks, All Sports Fields

- Excellent heat and drought survival
- Low maintenance turf grass
- Good wear tolerance for high-traffic areas
- Performs well in shady areas

100% Proprietary Turf Type Tall Fescue
Available in 50-lb., 25-lb., and 5-lb. bags

TRUEBLUE

Recommended use for: Home Lawn,
All Sports Fields, Golf Courses

- Blended for the ultimate picture-perfect lawn
- Deep green color
- Fine texture
- Average to high maintenance requirements

100% Proprietary Kentucky Bluegrass
Available in 25-lb. bags



Talk to your GreenYard® turf specialist about these exclusive GreenYard seed products.

TURFGRASS MIXES



Mixture or Blend	% of Species	Use	Home/Golf Courses	Football/Soccer	Baseball	School Grounds	Parks/Recreation	Utilities/Municipalities	Landscape/Contractor	Golf Course Fairway	Golf Course Roughs	Golf Course Aprons & Tees	Roadside/Boulevard	Airplane Strips/Orchards
Custom Links	50% Proprietary Creeping Red Fescue 25% Proprietary Hard Fescue 25% Proprietary Sheeps Fescue	Athletic Fields, Golf Courses				X				X	X		X	X
Deluxe	34% Proprietary Kentucky Bluegrass 33% Proprietary Turf Type Perennial Ryegrass 33% Proprietary Creeping Red Fescue	Home Lawns, Large Areas, Sun or Shade, Overseeding	X		X	X	X	X	X		X		X	X
DuraTurf	35% Annual Ryegrass 30% Proprietary Turf Type Perennial Ryegrass 20% Kentucky Bluegrass 15% Creeping Red Fescue	Economical, Extra Quick Cover, Heavy Traffic, Large Areas					X						X	
Grand Slam	50% Proprietary Kentucky Bluegrass 50% Proprietary Turf Type Perennial Ryegrass	Athletic Fields, Golf Courses		X	X					X	X	X		
GreenYard 90/10	90% Turf Type Tall Fescue 10% Proprietary Kentucky Bluegrass	Athletic Fields, Golf Courses	X	X	X	X	X	X	X		X		X	
Playground	80% Proprietary Tall Fescue 15% Proprietary Turf Type Perennial Ryegrass 5% Proprietary Kentucky Bluegrass	Heavy Traffic, Summer Stress, Deep Roots	X	X	X	X	X	X	X	X	X	X	X	X
Premium Athletic Gold	80% Proprietary Kentucky Bluegrass 20% Proprietary Turf Type Perennial Ryegrass	Athletic Fields, Golf Courses		X	X					X	X	X		
Rapid Cover	100% Proprietary Turf Type Perennial Ryegrass	Overseeding, Quick Cover, Early Green-up, Mixes Well	X	X			X		X	X	X	X		
Shady Lawn	40% Proprietary Kentucky Bluegrass 20% Proprietary Chewings Fescue 20% Proprietary Turf Type Perennial Ryegrass 20% Proprietary Creeping Red Fescue	From 25%-75% Shade, Good Color	X				X		X		X			X
Short Cut Blue	100% Proprietary Kentucky Bluegrass	Athletic Fields, Golf Courses	X	X	X	X			X	X		X		
Supreme Lawn	60% Proprietary Kentucky Bluegrass 40% Proprietary Turf Type Perennial Ryegrass	Home Lawns, Football, Baseball, Soccer, Playgrounds, High Wear	X	X	X	X	X	X	X	X	X	X		
Tough Lawn	100% Proprietary Turf Type Tall Fescue	Heat/Drought Resistant, Low Maintenance, Tolerates Shade, High-Traffic Areas	X	X	X	X	X	X	X	X	X	X	X	X
TrueBlue	100% Proprietary Kentucky Bluegrass	Picture-Perfect Lawn, Fine Texture, Deep Green Color	X	X	X	X	X	X	X	X	X	X		

Actual Percentage of seed varieties may vary slightly depending upon seed availability.

X - Good Choice

TURFGRASS MIXES

Seed Establishment	Disease Resistance	Sandy Soils	Clay Soils	Shade Tolerance	Maintenance Requirements	Mowing Height/Inches	Recovery Rate/Traffic Tolerance	Overseeding/1000 sq.ft. General	Overseeding/Acre General	New Seeding/1000 sq.ft.	New Seeding/Acre	Sports Field Overseeding/1000 sq.ft.	Sports Field Overseeding/Acre	Sports Field New Seeding/1000 sq.ft.	Sports Field New Seeding/Acre	Mixture or Blend
G	E	E	G	E	L	1	G	2-4	175	4-5	225	4-5	215	10-12	520	Custom Links
V	G	V	V	G	L	2-4	V	2-4	150	4-6	225	8-10	435			Deluxe
E	F	G	G	F	L	2-3	E	2-4	150	4-5	225					DuraTurf
E	E	V	E	G	H	1-4	E					10-12	440	10-15	650	Grand Slam
G	V	E	E	E	L	3-5	V	4-6	225	8-10	450	8-10	435	10-15	650	GreenYard 90/10
G	V	E	E	E	L	3-5	V	3-4	175	7-9	400	8-10	435	10-15	650	Playground
G	E	V	E	G	H	1-4	G					4-7	305	8-10	435	Premium Athletic Gold
G	G	V	E	F	M	2-4	E	3-4	175	6-8	350	10-15	650			Rapid Cover
G	V	E	G	E	M	2-4	G	2-4	175	4-6	225					Shady Lawn
G	E	G	G	G	H	.5-4	G	1-3	100	3-5	175	4-6	260	7-9	390	Short Cut Blue
G	E	V	E	G	M	2-4	G	2-3	150	4-5	225	4-6	260	9	390	Supreme Lawn
G	V	E	E	E	L	3-5	V	4-5	225	8-10	450	7-9	400	10-15	650	Tough Lawn
F	E	G	G	G	H	2-4	G	1-2	100	3-4	175	4-6	260	7-9	390	TrueBlue

E - Excellent V - Very Good G - Good F - Fair P - Poor H - High M - Medium L - Low

Seeding Rates in lbs.

SEED CHARACTERISTICS

Species	Seeds per Pound	Growth Habit	Leaf Growth	Establishment Rate	Competitiveness	Thatch Formation	Shade Tolerance	Drought Tolerance	Cold Tolerance	Traffic Wear Tolerance	Seeding Rate (1000 sq.ft)
Perennial Ryegrass	280,000	B	VF	VF	H	L	G	VG	G	E	6-8-lb.
Tall Fescue	225,000	B	M	S	L/M	L/M	VG	VG	VG	VG	8-10-lb.
Chewings Fescue	385,000	B	SL/M	M	M	H	VG	G	VG	FR	7-9-lb.
Creeping Fescue	320,000	T	SL/M	M	L/M	M	VG	G	VG	P	7-9-lb.
Kentucky Bluegrass	2,000,000	R	SL/M	S	M	M/H	FR	G	VG	G	2-4-lb.
Bentgrass Creeping	7,000,000	ST	M/F	M	H	H	FR	P/FR	E	G	1-2-lb.
Zoysiagrass	1,000,000	ST/R	SL	SL	H	M	P	G	M/P	E	1-2-lb.
Bermudagrass	1,500,000	ST/R	FT	VF	H	H	P	E	P	VG	2-30-lb.

B = Bunch	G = Good	P = Poor	T = Tillers
E = Excellent	H = High	R = Rhizomes	VF = Very Fast
FR = Fair	L = Low	SL = Slow	VG = Very Good
FT = Fast	M = Medium	ST = Stolons	



FERTILIZERS



GREENS FERTILIZERS

GREENS GRADE FERTILIZERS (SGN 100)

Product/ Use Grade	Unit Size	Application Rate		Lb. Nutrients/M			Nutrient Sources
		Lb./M	Lb./A	N	P	K	
18-4-18 50% Nutralene, SOP + Micro Mix	50-lb.	4.0	174	0.72	0.20	0.72	Sulfate of potash, ammonium phosphate, urea, methylene urea, micro mix
21-0-0-24S	50-lb.	Rate variable according to need					Ammonium sulfate
11-52-0 Mini Map	50-lb.	Rate variable according to need					Ammonium sulfate
Calcium Nitrate	50-lb.	Rate variable according to need					Calcium nitrate
10-18-20 55mu + SOP		Rate variable according to need					Sulfate of potash, methylene urea, ammonium phosphate

TURF FERTILIZERS

PROFESSIONAL STANDARD GRADE FERTILIZERS

Product/ Use Grade	Unit Size	Application Rate		Lb. Nutrients/M			Nutrient Sources
		Lb./M	Lb./A	N	P	K	
9-25-25 All mineral	50-lb.	4.0	174	0.36	0.20	0.20	
13-13-13 All mineral	50-lb.	4.0	174	0.52	0.52	0.52	Urea, diammonium phosphate, muriate of potash
14-24-9 33% PCU	50-lb.	4.0	174	0.56	0.96	0.36	PCU, urea, diammonium phosphate, muriate of potash
18-0-6 25% PCU	50-lb.	4.0	174	0.72	0.00	0.24	PCU, urea, muriate of potash
19-19-19 All mineral	50-lb.	4.0	174	0.76	0.76	0.76	Urea, diammonium phosphate, muriate of potash
25-0-5 All mineral	50-lb.	4.0	174	1.00	0.00	0.20	Urea, muriate of potash
25-0-5 25% PCU	50-lb.	4.0	174	1.00	0.00	0.20	PCU, urea, muriate of potash
25-0-5 33% PCU, 2% Fe	50-lb.	4.0	174	1.00	0.00	0.20	PCU, urea, muriate of potash sulfur with iron
25-0-5 50% PCU	50-lb.	4.0	174	1.00	0.00	0.20	PCU, urea, muriate of potash
34-0-5 All mineral	50-lb.	3.0	135	1.02	0.00	0.15	PCU, urea, muriate of potash
34-0-5 25% PCU	50-lb.	3.0	135	1.02	0.00	0.15	PCU, urea, muriate of potash
34-0-5 50% PCU	50-lb.	3.0	135	1.02	0.00	0.15	PCU, urea, muriate of potash

TURF FERTILIZERS

TURF FERTILIZERS WITH PREEMERGENCE HERBICIDE

Product/ Use Grade	Unit Size	Application Rate		Lb. Nutrients/M			Nutrient Sources
		Lb./M	Lb./A	N	P	K	
14-0-5 25% UFLEXX w/0.37% Proflaminate	50-lb.	4.0	174	0.56	0.00	0.20	UFLEXX, urea, muriate of potash
19-0-10 25% UFLEXX w/0.37% Proflaminate	50-lb.	4.0	174	0.76	0.00	0.25	UFLEXX, urea, muriate of potash
13-0-5 25% PCU w/0.125% Dimension	50-lb.	4.0	174	0.52	0.00	0.20	PCU, urea, muriate of potash
13-0-5 25% PCU w/0.15% Dimension	50-lb.	4.0	174	0.52	0.00	0.20	PCU, urea, muriate of potash
18-0-6 15% PCU w/0.15% Dimension	50-lb.	4.0	174	0.72	0.00	0.24	PCU, urea, muriate of potash



TURF FERTILIZERS

TURF FERTILIZERS WITH POSTEMERGENCE HERBICIDE

Product/ Use Grade	Unit Size	Application Rate		Lb. Nutrients/M			Nutrient Sources
		Lb./M	Lb./A	N	P	K	
16-0-8 25% PCU w/Viper	50-lb.	4.0	174	0.64	0.00	0.32	PCU, urea, muriate of potash
18-0-6 25% PCU w/Millennium Ultra	50-lb.	4.0	174	0.80	0.72	0.24	PCU, urea, muriate of potash
20-0-5 25% PCU w/Trimec	50-lb.	4.0	174	0.80	0.00	0.20	PCU, urea, muriate of potash

TURF PROFESSIONAL FERTILIZERS WITH INSECTICIDE

Product/ Use Grade	Unit Size	Application Rate		Lb. Nutrients/M			Nutrient Sources
		Lb./M	Lb./A	N	P	K	
0-0-7 w/.20% Mallet or Merit Bag treats 14,200 square feet	50-lb.	3.5	153	0.00	0.00	0.24	Muriate of potash
15-0-5 25% PCU w/.20% Mallet or Merit Bag treats 14,200 square feet	50-lb.	3.5	153	0.53	0.00	0.18	PCU, urea, muriate of potash
21-0-5 50% PCU w/.20% Mallet or Merit Bag treats 14,200 square feet	50-lb.	3.5	153	0.74	0.00	0.18	PCU, urea, muriate of potash

TURF FERTILIZERS

STRAIGHT GRADE FERTILIZERS

Product	Unit Size	Application
46-0-0 Urea	50-lb.	Rates vary according to need. Standard grade.
46-0-0 Spray Grade Urea (Prilled)	50-lb.	Urea.
46-0-0 UFLEXX Granular	50-lb.	Rates vary according to need. Standard grade.
Aluminum Sulfate Granular	50-lb.	Aluminum sulfate.
0-0-50 Sulfate of Potash SOP	50-lb.	Rates vary according to need. Standard grade, greens grade, or soluble grade.
0-0-60 White Potash Granular MOP	50-lb.	Rates vary according to need. Standard grade.
Calcium Nitrate Granular (15.5-0-0-26Ca.)	50-lb.	Rates vary according to need. Standard grade.
Calcium Nitrate Greenhouse Grade (15.5-0-0-26Ca.)	50-lb.	Rates vary according to need. Standard grade.
Potassium Nitrate Greenhouse Grade (13-0-6) limited	50-lb.	Rates vary according to need. Standard grade.
Ammonium Sulfate Granular (21-0-0-24S) limited	50-lb.	Rates vary according to need. Standard grade.

TURF FERTILIZERS

ORGANIC AND ORGANIC BLEND FERTILIZERS

Product/ Use Grade	Unit Size	Application Rate		Lb. Nutrients/M			Nutrient Sources
		Lb./M	Lb./A	N	P	K	
16-2-3 44% PCU, SOP, Organic CPM	50-lb.	4.0	174	0.64	0.08	0.12	Urea, ammonium sulfate, poultry manure, bios & lids, sulfate of potash
4-3-0 Nutripel	50-lb.	Rates vary according to need. Standard grade.					Activated sewage sludge
22-0-2 35% PCU, AMS, Organic CPM, Humic Acid	50-lb.	Rates vary according to need.					Urea, ammonium sulfate, poultry manure, bios & lids, sulfate of potash, humic acid

SOLUBLE FERTILIZERS

Product/ Use Grade	Unit Size	Application Rate		Lb. Nutrients/M			Nutrient Sources
		Lb./M	Lb./A	N	P	K	
0-0-50 Soluble SOP	50-lb.	Rate variable according to needs. Use to make liquid formulations.					Potassium Sulfate
0-0-62 Soluble SOP	50-lb.	Rate variable according to needs. Use to make liquid formulations.					Muriate of Potash
20-20-20	25-lb.	Rate variable according to needs.					Urea, nitrate, ammonical N, Ammonium Phosphate

TURF FERTILIZERS

LIQUID FERTILIZERS

Product/ Use Grade	Unit Size	Application
17-0-5	Bulk or 250-gal. Mini Bulks	Great for the lawn care professional. Base mix.
(FlexN) 28-0-0 72% Controlled Release	Bulk or 250-gal. Mini Bulks 2 x 2.5-gal.	Great product to mix to dial in your specific summer application.
NutriFuse Krossfit	Bulk or 265-gal. Mini Bulks 2 x 2.5-gal.	Foliar application on lawns.



A photograph of an athletic field with a large diamond-shaped graphic overlay in the center. The field is green and appears to be a baseball or softball field. In the background, there is a chain-link fence and a building. The sky is blue with some trees visible. The diamond shape is green with a white border and contains the text "ATHLETIC FIELD MAINTENANCE" in orange, bold, uppercase letters.

**ATHLETIC FIELD
MAINTENANCE**

ATHLETIC FIELD MAINTENANCE

Product	Unit Size	Uses
Turf MXP (Regular)	50-lb. Bags/Bulk	Fights compaction and keeps infields firm enough for solid footing, but resilient enough for safe play. Improves drainage and consistency which allows fields to be played on sooner after a rain. Great for use as a topdressing in combination with aerification on football fields.
Turf Pro League Elite (Regular, Red and Champion Brown, Heritage Red)	50-lb. Bags/Bulk	Smaller, uniform particle size tested and approved by Major League groundskeepers. The ultimate topdressing for superior drainage and absorption. Excellent sliding surface for softball and baseball.
Turf Quick Dry (Regular)	50-lb. Bags	Specifically designed to absorb infield puddles and wet areas. Very fine material, resulting in quick absorption of moisture.
Mound Master Blocks	304 Blocks	100% pure virgin clay blocks deliver long-lasting performance.
Turf Professional Mound Red Clay	50-lb. Bags	High level of durability in a range of climates, to reduce wear across a variety of fields.
SAF 5-Star Packing Clay	50-lb. Bags	Clay-silt mixture bonds firmly and quickly to help streamline installation. Highly durable for long-lasting performance and wear resistance.
Turf MarMound All Purpose Clay	50-lb. Bags	Great for multi-plexes, holds up over a series of games and fields.
Turf Profile Greens Grade (Natural and Emerald)	50-lb. Bags	Smaller, uniform particle size for use on sand-based greens.
Turf Profile Lawn & Landscape	50-lb. Bags	Smaller, uniform particle size for use on tees, fairways, and football fields.
Turf SAF Diamond Mix	22-24 Ton/Bulk	Naturally-occurring blend of sand and clay for infield construction or maintenance.
Field Marking Chalk	50-lb. Bags	Athletic Field Products
All Star Marker for Chalk	Each	Athletic Field Products
Athletic Marking Paint (white & orange)	12/18-oz. Cans	Athletic Field Products
Athletic 4-Wheeled Striper	Each	Athletic Field Products
Latex Field Marking Paint for Aerosol Cans (white)	5-gal. Pails	Athletic Field Products



HERBICIDES

HERBICIDES

2,4-D Granular 16-30 Mesh (non-aquatic)

Active Ingredient: 2,4-D
Manufacturer: NuFarm
Unit Purchase: 50-lb. (40 BG)
Units per Case: Each
Rate: Follow product label for rate and spreader settings.

Granular product for lawns. Post-emergent broadleaf.

2,4-D Granular 16-30 Mesh (non-aquatic)

Active Ingredient: 2,4-D, MCP, Dicamba
Manufacturer: QualiPro
Unit Purchase: 6/15-oz. bottle
Units per Case: Each
Rate: See label for details.

For spot treatment on: ornamental turf, golf courses, cemeteries, parks, sports fields, turfgrass, lawns, fencerows, hedgerows, ditches, right-of-ways, and around buildings, driveways, sidewalks, carpaths, pavers, patios, retaining walls, and other similar areas where broadleaf weeds may grow.

3-D Foam

Active Ingredient: 2,4-D, MCP, Dicamba
Manufacturer: QualiPro
Units per Case: 6/15-oz. bottle
Rate: See label for details.

For Spot Treatment On: Ornamental Turf, Golf Courses, Cemeteries, Parks, Sports Fields, Turfgrass, Lawns, Fence Rows, Hedge Rows, Ditches, Right-Of-Ways, Around Buildings, Driveways, Sidewalks, Carpaths, Pavers, Patios, Retaining Walls, and Other Similar Areas Where Broadleaf Weeds May Grow

4-Speed XT

Active Ingredient: 2,4-D Ester, Dicamba, Pyraflufen-Ethyl, Triclopyr
Manufacturer: NuFarm
Units per Case: 5/1-gal. (36 CS), 2/2.5-gal. (36 CS), 30-gal. (5 DR)
Rate: 0.67 to 1.5-fl. oz./1000-sq. ft.

A four-way post-emergent selective broadleaf herbicide for use on golf courses, ornamental turf lawns, parks, roadsides, sports fields, sod farms, native grass areas and similar turf areas.

Allstar

Active Ingredient: 2,4-D, Quinclorac, Triclopyr, Sulfentrazone
Manufacturer: NuFarm
Units per Case: 4 x 64-oz., 2 x 2.5-gal., 30-gal. drum
Rate: 1.1 to 3 fl-oz. / 1000 sq. ft.

For selective control of broadleaf and grassy weeds and sedges in residential and non-residential turfgrass sites, including lawns or grounds around residential and commercial establishments, multi-family dwellings, military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses and sod farms.

Aquasweep

Active Ingredient: 2,4-D Amine, Triclopyr
Manufacturer: NuFarm
Unit Purchase: 2.5-gal. and 30-gal.
Units per Case: 2x2.5-gal. and 30-gal. (5 DR)
Rate: Check label for rates.

For control of unwanted trees and brush, as well as annual and perennial broadleaf weeds on rangeland, pastures, fencerows, non-irrigation ditches, roadsides, other non-crop areas, right-of-ways, ornamental turf, golf courses and sod farms, and for the control of emergent, floating, and submerged aquatic weeds.

HERBICIDES

Atrimmec PGR

Active Ingredient: Dikegulac-Sodium
Manufacturer: PBI/Gordon
Unit Purchase: 1-qt. and 1-gal.
Units per Case: 12 x 1-qt. (48 CS); 4 x 1-gal. (48 CS)
Rate: See label.

Growth retardant for use on hedges, shrubs, trees and ground covers.

Balan 2.5G

Active Ingredient: Benfenin
Manufacturer: Various
Unit Purchase: 40-lb.
Units per Case: Each
Rate: 1.5 to 3-lb. per 1000 sq. ft.

A selective pre-emergence herbicide for the control of crabgrass and most other annual weed grasses. Repeat applications are advised.

Basagran T/O

Active Ingredient: Bentazon
Manufacturer: BASF
Unit Purchase: 1-gal.
Units per Case: 5 x 1-gal.
Rate: 0.55-oz. to 0.75-oz. per 1000 sq. ft.

Post-emergence herbicide for use in established turf, ornamentals, and roadsides to control broadleaf weeds and sedges.

Bensumec 4LF (Betasan)

Active Ingredient: Bensulide
Manufacturer: PBI/Gordon
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal.
Rate: Use 5.6 to 9.4-oz. per 1000 sq. ft.

For pre-emergent grass and broadleaf weed control in all major turfgrasses.

Broadstar

Active Ingredient: Flumioxazin
Manufacturer: NuFarm
Unit Purchase: 50-lb. (40 BG)
Units per Case: Each
Rate: 3.5-lb. per 1000 sq. ft.; 150-lb. per acre

Granular formulation for pre-emergent weed control in landscapes and nursery applications.

Casoron 4G (16-30 mesh) (8-16 coarse)

Active Ingredient: Dichlobenil
Manufacturer: Arysta
Unit Purchase: 50-lb. (40 BG)
Units per Case: Each
Rate: 2.3 to 3.4-lb. per 1000 sq. ft.

Recommended for pre-emergent control of many perennial weeds, annual grasses, and broadleaf weeds. Use as a soil surface treatment in woody ornamentals and nurseries.

Cavalcade 65WDG

Active Ingredient: Prodiamine
Manufacturer: Sipcam Agro
Unit Purchase: 10-lb. (12 CS)
Units per Case: 5 x 10-lb.
Rate: 0.185-0.83-oz. per 1000 sq. ft.

Provides pre-emergence control of crabgrass and other annual grasses and certain broadleaf weeds in well-established turf, landscape, field, and container-grown plantings.

HERBICIDES

Celero

Active Ingredient: Imazosulfuron
Manufacturer: NuFarm
Unit Purchase: 1-lb.
Units per Case: 4 x 1-lb.
Rate: 8.0 to 14-oz./acre

Nutsedge and green kylinga control in turf. Control of annual and perennial grass and broadleaf weeds in highly managed turf sites. A 2,4-D-free herbicide for control of broadleaf weeds in turf. Excellent clover control with one application.

Certainty

Active Ingredient: Sulfosulfuron
Manufacturer: NuFarm
Unit Purchase: 1.25-oz. BTL
Units per Case:
Rate: 0.75 to 2.0-oz. per 1000 sq. ft. in warm-season grasses; 0.75 to 2.0-oz. per 1000 sq. ft. in native grasses.

Control of annual and perennial grass and broadleaf weeds in highly managed turf sites.

Change Up

Active Ingredient: Dicamba, Fluroxypyr, MCPA
Manufacturer: NuFarm
Unit Purchase: 2.5-gal. (36 CS)
Units per Case: 2 x 2.5-gal.
Rate: 0.46-oz. to 1.10-oz./1000 sq. ft.

Selective herbicide for broadleaf weed control in turf and ornamentals, non-2,4-D combination for added safety on warm-season grass.

Confront

Active Ingredient: Clopyralid, Triclopyr
Manufacturer: Corteva AgriScience
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal.
Rate: 0.37 to 0.74-oz. per 1000 sq. ft.

A 2,4-D-free herbicide for control of broadleaf weeds in turf. Excellent clover control with one application.

Cool Power

Active Ingredient: Dicamba, MCPA, Triclopyr
Manufacturer: NuFarm
Unit Purchase: 2.5-gal. (72 CS) and 30-gal.
Units per Case: 2 x 2.5-gal. and drum
Rate: 0.91 to 1.29-oz. per 1000 sq. ft.

A premium post-emergent ester formulation, containing TRICLOPYR, for superior broadleaf weed control during cool weather conditions.

CREW

Active Ingredient: Isoxaben, Dithiopyr
Manufacturer: Corteva AgriScience
Unit Purchase: 4 x 10-lb., 50-lb.
Rate: 150 to 200-lb./acre; 3.44 to 4.59-lb./1,000 sq. ft.

For pre-emergence control of broadleaf and grassy weeds and early post-emergence crabgrass in landscape ornamentals, established turfgrass, ornamental and sports turf, golf course fairways, aprons and roughs, tee boxes, campgrounds, parks, recreation areas, cemeteries and unimproved turfgrass areas, and non-crop areas.

Defendor

Active Ingredient: Florasulam
Manufacturer: Corteva AgriScience
Unit Purchase: 1-qt.
Units per Case: 4 x 1-qt.
Rate: 4-oz./acre

Defendor specialty herbicide is a post-emergence product effective in late fall and early spring and is designed to perform in cold weather. Defendor prevents dandelion bloom and controls other spring weeds before they're ever seen.

HERBICIDES

Dimension 0.27% G

Active Ingredient: Dithiopyr
Manufacturer: Howard Johnson
Unit Purchase: 40-lb. (50 BG)
Units per Case: Each
Rate: 2.30 to 4.25-lb./1000 sq. ft.

A selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns, commercial sod farms, ornamental turf, and landscape ornamentals.

Dimension 2E + Defender co-pak

Active Ingredient: Dithiopyr + Florasulam
Manufacturer: Corteva AgriScience
Unit Purchase: Co-pak
Units per Case: 2 x 2-gal. plus 2 x 1-gal. (40 CS)
Rate: Check label.

Tank mix of pre- and post-emergent control of broadleaf weeds and grasses.

Dimension 2EW

Active Ingredient: Dithiopyr
Manufacturer: Corteva AgriScience
Unit Purchase: 0.5-gal.; 2 x 2.5-gal. and 30-gal.
Units per Case: 4 x 0.5-gal. (24 CS);
2 x 2.5-gal. (36 CS); 30-gal. (5 DR)
Rate: 16-32-oz./acre or 0.36 to 0.73-oz./1000 sq. ft.

See label options.

Dimension Ultra 40 WSP

Active Ingredient: Dithiopyr
Manufacturer: Corteva AgriScience
Unit Purchase: 8 x 5-oz.
Units per Case: 8 (8 x 5-oz.) (18 CS)
Rate: Up to 0.46-oz./1000 sq. ft.

A selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns, commercial sod farms, ornamental turf, and landscape ornamentals.

Drive XLR8

Active Ingredient: Quinclorac
Manufacturer: BASF
Unit Purchase: .5-gal.
Units per Case: 4 x .5-gal. (30 CS)
Rate: 0.5 to 1.0 fl.-oz./1000 sq. ft.

Post-emergent control of many broadleaf weeds and grasses, crabgrass.

Envoy PLUS

Active Ingredient: Clethodim
Manufacturer: NuFarm
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (12 CS)
Rate: Use 13 to 34-oz. per acre

A post-emergent grass herbicide for control of annual and perennial grass in ornamentals. It can be applied to Christmas trees and other conifers, garden flowers and plants, and in non-crop areas.

Escalade 2

Active Ingredient: 2,4-D Amine, Dicamba, Fluroxypyr
Manufacturer: NuFarm
Unit Purchase: 2.5-gal.; 30-gal.; 250-gal.
Units per Case: 2/2.5 GL (36 CS), 30 GL (5 DR), 250 GL (MB)
Rate: 0.75 to 1.1-oz. per 1000 sq. ft.

For selective broadleaf weed control in ornamental lawns and turf grasses.

Escort XP

Active Ingredient: Metasulfuron
Manufacturer: ENVU
Unit Purchase: 16-oz.
Units per Case: 8 x 16-oz. (64 CS)
Rate: Check label.

Post-emergence control of many annual and perennial weeds and woody plants in non-crop areas and conifer plantings. Some pre-emergence control.

HERBICIDES

Ethephon 2

Active Ingredient: PGR
Manufacturer: NuFarm
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal.; 2 x 2.5-gal.
Rate: 2.5-oz. to 8-oz. per acre

Plant growth regulator for commercial or agricultural use only.

Gallery 75DF

Active Ingredient: Isoxaben
Manufacturer: Corteva AgriScience
Unit Purchase: 1-lb.
Units per Case: 4 x 1-lb. (6 CT/CS)
Rate: 0.25 to 0.50-oz. per 1000 sq. ft.

A selective pre-emergence herbicide for control of many broadleaf weeds. Excellent control of clover in turf. Great tank mix with Surflan in ornamental beds and nurseries.

Gallery SC

Active Ingredient: Isoxaben
Manufacturer: Corteva AgriScience
Unit Purchase: 1-qt., 2.5-gal.
Units per Case: 16 x 1-qt. (18 CS), 2/2.5-gal. (48 CS)
Rate: 0.3-fl. oz. to 0.7-fl. oz. per 1000 sq. ft.

Pre-emergence herbicide for control of certain broadleaf weeds in established turf, landscape ornamentals, container-grown ornamentals, field-grown ornamentals, groundcovers/perennials, non-cropland, ornamental bulbs, and Christmas tree and conifer plantations.

GameOn

Active Ingredient: 2, 4-D, Fluroxypyr, Halauxifen-Arylex
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal. (36 CS)
Units per Case: 2 x 2.5-gal.
Rate: 3-4 pints per acre (see label)

For post-emergence control of annual and perennial broadleaf weeds in established turfgrass and ornamental grasses in golf courses (including fairways, aprons and roughs, tee boxes), industrial sites, cemeteries, commercial sod farms, and unimproved turfgrass areas. Unimproved turfgrass areas are defined as sites that are not regularly maintained, i.e., may only be mowed and treated 1-3 times per year.

Goal 2 XL

Active Ingredient: Oxyfluorfen
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 1 pt. to 8 pts. per acre

Selective pre-emergent and/or post-emergent herbicide used for control of listed annual grasses and broadleaf weeds.

Horsepower

Active Ingredient: Dicamba, MCPA, Triclopyr
Manufacturer: NuFarm
Unit Purchase: 2.5-gal. and 30-gal.
Units per Case: 2 x 2.5-gal. (36 CS) and 30-gal. (5)
Rate: 0.73 to 1.10-oz. per 1000 sq. ft.

A premium liquid post-emergent selective broadleaf herbicide, especially formulated to control hard-to-kill weeds in 2, 4-D-free programs.

HERBICIDES

Kerb WP T/O (Restricted Use)

Active Ingredient: Pronamide
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 0.5-4.0-lb./acre

Selective pre-emergence and early post-emergence herbicide for control of winter annual and perennial grasses and chickweed and for pre-emergence control only of certain other broadleaf weeds and certain other grasses listed.

Lontrel

Active Ingredient: Clopyralid
Manufacturer: Corteva AgriScience
Unit Purchase: 1-qt.
Units per Case: 12 x 1-qt. (9 CS)
Rate: Use 0.1 to 0.5-oz. per 1000 sq. ft.

A selective post-emergent herbicide for use on turf and ornamentals. Controls broadleaf weeds such as musk thistle, yellow star thistle, and ragweed.

MCPP 4 Amine

Active Ingredient: MCPP-P
Manufacturer: NuFarm
Unit Purchase: 2.5-gal. and 30-gal.
Units per Case: 2 x 2.5-gal. (36 CS); 30-gal. (5 DR)
Rate: 1 to 1.5-oz. per 1000 sq. ft.

Excellent clover control in bentgrass. Great to tank-mix with Triplet to increase clover control.

Meso-Try-One 4L

Active Ingredient: Mesotrione
Manufacturer: Drexel
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (48 CS)
Rate: 4 to 8-fl. oz. per acre

Pre-emergence and post-emergence herbicide for selective contact and residual control of weeds in commercial and residential turf.

Millennium Ultra 2

Active Ingredient: 2,4-D Amine, Clopyralid, Dicamba
Manufacturer: NuFarm
Unit Purchase: 2.5-gal. and 30-gal.
Units per Case: 2 x 2.5-gal. (36 CS); 30-gal. (5 DR)
Rate: 0.33 to 1.1-oz. per 1000 sq. ft.

A premium liquid post-emergent selective broadleaf herbicide, specially formulated to provide superior broad-spectrum weed control.

Ornamec (Over the Top)

Active Ingredient: Fluazifop-P-Butyl
Manufacturer: PBI/Gordon
Unit Purchase: 1-qt.
Units per Case: 4 x 1-qt. (40 CS)
Rate: Use 1.4 to 2.2-oz. per 1000 sq. ft.

Post-emergent control of grass weeds in and around ground covers, shrubs and trees in landscape beds, container yards, and grower nursery fields.

Oxadiazon 2G, Ronstar G

Active Ingredient: Oxadiazon
Manufacturer: Quali Pro/Bayer
Unit Purchase: Case
Units per Case: 50-lb. (40)
Rate: 100-200-lb./acre

A selective, pre-emergence herbicide for control of annual grasses and broadleaf weeds in turf and woody ornamental shrubs, vines, and trees.

Pendulum 2 G (Granular)

Active Ingredient: Pendimethalin
Manufacturer: BASF
Unit Purchase: 40-lb. (50 BG)
Units per Case: 40-lb. bag
Rate: See label.

Pre-emergent weed control herbicide for non-cropland areas, ornamental plantings, and non-residential turf.

HERBICIDES

Pendulum Aquacap

Active Ingredient: Pendimethalin
Manufacturer: BASF
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (24 CS)
Turf Rate: 1.3 to 1.8-oz. per 1000 sq. ft.

Pre-emergent weed control herbicide for non-cropland areas, ornamental plantings, and non-residential turf.

Pillar G Intrinsic

Active Ingredient: Pyraclostrobin, Triticonazole
Manufacturer: BASF
Unit Purchase: 30-lb. (50 BG)
Units per Case: 30-lb.
Rate: 3 lbs. per 1000 sq. ft.

For disease control and plant health in turfgrass.

Plateau

Active Ingredient: Imazapic
Manufacturer: BASF
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (36 CS); 2 x 1-gal.
Rate: Check label.

For weed control, native grass establishment, and turf growth suppression on pastures, rangelands, and non-crop areas and conifer plantation site preparation.

Prodiamine 4L

Active Ingredient: Prodiamine
Manufacturer: VARIOUS
Unit Purchase:
Units per Case: 10-48-oz./1000 sq. ft.
Rate: Please check label for rates before use.

Convenient liquid formulation. Low use rates provide efficient season-long control of crabgrass, Poa annua, goosegrass, and key annual broadleaf weeds.

Prodiamine 65WDG

Active Ingredient: Prodiamine
Manufacturer: VARIOUS
Unit Purchase: 20-lb. (50 BG)
Units per Case:
Rate: 0.185-0.83oz/1000 Sq. Ft.
Please check label for rates before use.

Pre-emergent broadleaf and grassy weed control. Low solubility and volatility. Allows for both spring and fall use for crabgrass elimination.

Pylex

Active Ingredient: Topramezone
Manufacturer: BASF
Unit Purchase: 20-lb. (50 BG)
Units per Case: 4/8-oz. (55 CS)
Rate: 1.0-fl. oz. to 1.5-fl. oz. per acre

For post-emergence control of broadleaf and grass weeds in select turfgrass on golf courses, sod farms, and residential turfgrass.

Q4 Plus Turf Herbicide

Active Ingredient: 2,4-D Amine, Dicamba, Quinclorac, Sulfentrazone
Manufacturer: PBI/Gordon
Unit Purchase: 1-qt., 1-gal., 2.5-gal., 30-gal.
Units per Case: 4 x 1-gal. (48 CS); 2 x 2.5-gal. (36 CS); 30-gal. (5 DR)
Rate: 2.6 to 3.0-oz. per 1000 sq. ft. on cool season grasses

Control of certain grassy weeds and control of most troublesome broadleaf weeds in species in established cool-season turf areas.

HERBICIDES

QuickSilver Herbicide

Active Ingredient: Carfentrazone-ethyl
Manufacturer: FMC Corporation
Unit Purchase: 8-oz.
Units per Case: 4 x 8-oz.
Rate: 0.046 to 0.154-fl. oz./1000 sq ft

QuickSilver Herbicide is a contact herbicide with little or no residual activity that provides selective postemergent control of silvery thread moss (Bryum argenteum) in turfgrass.

Quincept

Active Ingredient: 2,4-D Amine, Dicamba, Quinclorac
Manufacturer: NuFarm
Unit Purchase: 0.5-gal.; 2.5-gal.; 30-gal.
Units per Case: 8 x 0.5-gal. (36 CS), and 2 x 2.5-gal. (36 CS)
Rate: 2.6 to 2.9-oz. per 1000 sq. ft.

Selective herbicide for control of broadleaf and certain grassy weeds in turfgrass.

QuinStar 4L 1.5L

Active Ingredient: Quinclorac
Manufacturer: Albaugh
Unit Purchase:
Units per Case:
Rate: 8 to 16-oz. per acre.
Please check label for rates before use.

For control of crabgrass and wide variety of annual and broadleaf weeds.

QuinStar 75DF

Active Ingredient: Quinclorac
Manufacturer: Albaugh
Unit Purchase: 1-lb.
Units per Case: 6 x 1-lb. (45 CS)
Rate: 1-lb. per acre

Post-emergent control of many broadleaf weeds and grasses, crabgrass.

Quintessential

Active Ingredient: Quinclorac
Manufacturer: Albaugh
Units per Case: 2 x 2.5-gal.; Each
Rate: See label for details.

Selective herbicide for control of broadleaf weeds, grasses, and crabgrass. New technology improves absorption for faster activity.

Q-ball

Active Ingredient: Quinclorac
Manufacturer: NuFarm
Unit Purchase: 4/6 4-oz.
Units per Case: 4 x 64-oz. (36 CS)
Rate: 1-lb. per acre

Selective herbicide for control of broadleaf and certain grassy weeds in turfgrass. Convenient-to-use liquid formulation, labeled for use in low-volume ride-on sprayers.

RangerPro

Active Ingredient: Glyphosate
Manufacturer: Various
Unit Purchase: 1-gal. and 30-gal.
Units per Case: 5 x 1-gal. (36 CS); 30-gal. (5 DR)
Rate: Check label.

A post-emergent systemic herbicide that controls all non-woody plants (grasses and broadleaf weeds). Has no soil residual to interfere with new seedlings and transplants following herbicide treatment.

Roundup PRO Concentrate

Active Ingredient: Glyphosate
Manufacturer: Bayer
Unit Purchase: 2.5-gal.; 30-gal.
Units per Case: 2 x 2.5-gal.; Each
Rate: Check label.

A post-emergent systemic herbicide that controls all non-woody plants (grasses and broadleaf weeds). Has no soil residual to interfere with new seedlings and transplants following herbicide treatment.

HERBICIDES

Roundup PROMAX

Active Ingredient: Glyphosate
Manufacturer: Bayer
Unit Purchase: 1.67-gal.; 30-gal.
Units per Case: 2 x 1.67-gal. (42); 30-gal. (4)
Rate: Check label.

A post-emergent systemic herbicide that controls all non-woody plants (grasses and broadleaf weeds). Has no soil residual to interfere with new seedlings and transplants following herbicide treatment.

Roundup QuickPro

Active Ingredient: Glyphosate
Manufacturer: Bayer
Unit Purchase: 6.8-lb. and 1.5-oz.
Units per Case: 4 x 6.8-lb. (18); 6 x 5/1.5-oz. (102 CS)
Rate: Check label.

A post-emergent systemic herbicide that controls all non-woody plants (grasses and broadleaf weeds). Has no soil residual to interfere with new seedlings and transplants following herbicide treatment.

Roundup QuikPRO SC Total

Active Ingredient: Indaziflam, Diquat, Glyphosate
Manufacturer: Bayer CropScience LP
Unit Purchase: 2.5-gal.; 144-oz.
Units per Case: 2 x 2.5-gal.; 4 x 144-oz.
Rate: 16-oz. / 1-gal. water

Non-selective control of emerged and pre-emerged grasses and broadleaf weeds in non-crop areas including paths, parking lots, curbs, sidewalks, driveways, around buildings, gravel areas, loading ramps, educational facilities, storage yards, vacant lots, fencerows, parks, hardscapes (including crack and crevice), municipal, mulched areas, landscape ornamental beds, and government sites.

Scythe

Active Ingredient: Pelargonic Acid
Manufacturer: Gowen
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5 case (36 CS)
Rate: Check label.

A contact, non-selective, broad-spectrum, foliar-applied herbicide to provide burn down of both annual and perennial broadleaf and grass weeds.

Sedgehammer

Active Ingredient: Halosulfuron
Manufacturer: Gowan
Unit Purchase:
Units per Case: 10 (10/1.333-oz.)
Rate: 0.66 to 1.33-oz. per acre for treatment
0.9 grams per 1000 sq. ft. spot treatment

A selective herbicide for the control of nutsedge and other weeds in turfgrass and landscaped areas.

Sedgehammer Plus

Active Ingredient: Halosulfuron
Manufacturer: Gowan
Unit Purchase:
Units per Case: 20 (12/13.5-g.)
Rate: 1 packet treats 1000 sq. ft.

A selective herbicide for the control of nutsedge and other weeds in turfgrass and landscaped areas. Ready-to-use mix. Includes surfactant.

Segment II

Active Ingredient: Sethoxydim
Manufacturer: BASF
Unit Purchase: 2 x 2.5-gal.
Units per Case: 24 cases
Rate: 0.6 to 0.9-oz. /1,000 sq. ft.

A selective, broad spectrum, post-emergent herbicide for control of annual and perennial grass weeds in turf, ornamentals, non-food, and non-crop sites.

HERBICIDES

Snapshot 2.5 TG

Active Ingredient: Isoxaben, Trifluralin
Manufacturer: Corteva AgriScience
Unit Purchase: 50-lb. (40)
Units per Case: Each
Rate: 2.3 to 4.6-lb./1000 sq. ft.; 100 to 200-lb./ acre

A pre-emergent herbicide that controls broadleaf weeds and annual grasses in ornamental beds, nurseries, Christmas trees, non-bearing fruit, and nut crops.

Speed Zone EW

Active Ingredient: 2,4-D Ester, Carfentrazone-Ethyl, Dicamba, MCPP-P
Manufacturer: PBI/Gordon
Unit Purchase: 1-gal.; 2.5-gal.
Units per Case: 4/1 GL (48 CS); 2/2.5 GL (36 CS)
Rate: 0.75 to 1.80-oz./1000 sq. ft.

Broadleaf herbicide used for the control of tough weeds like clover, plantain, ground ivy, and spurge.

Sure Power

Active Ingredient: 2,4-D, Triclopyr, Fluroxypyr
Manufacturer: NuFarm
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal.
Rate: 2.0 to 3.5 pt./acre

Post-emergent weed control for common and hard-to-kill weeds such as ground ivy (creeping charley) and wild violet in cool-season turf.

SureGuard EZ

Active Ingredient: Flumioxazin
Manufacturer: NuFarm
Unit Purchase: 1 pt.
Units per Case: 8/1 PT (144-qt.)
Rate: 8.0 to 12 fl-oz./acre

Pre-emergent and post-emergent weed control in a convenient formulation for aquatics, bareground, commercial and residential landscapes, tree wells, gravel areas, driveways, and other similar sites.

Surflan AS

Active Ingredient: Oryzalin
Manufacturer: UPL
Unit Purchase: 2/2.5-gal. (72 JG)
Rate: 1.0 to 1.3-fl. oz./1000-sq. ft.

A selective pre-emergence surface-applied herbicide for control of annual grasses.

Surge

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P, Sulfentrazone
Manufacturer: PBI/Gordan
Unit Purchase: 1-gal.; 2.5-gal.; 30-gal.
Units per Case: 4/1 GL (52 CS), 2/2.5 GL (36 CS), 30 GL (5 DR)
Rate: 1.2 to 1.5-oz./1000 sq. ft. on cool season grasses

Broadleaf herbicide for turf provides an amine option for fast weed control in warm weather. Will control spurge, knotweed, oxalis, clover, dandelion, and plantain.

T-Zone SE

Active Ingredient: 2,4-D Ester, Dicamba, Sulfentrazone, Triclopyr
Manufacturer: PBI/Gordon
Unit Purchase: 1-gal. and 2.5-gal.
Units per Case: 4/1 GL (48 CS); 2/2.5 GL (36 CS)
Rate: 0.75 to 1.50-fl. oz./1000 sq. ft.

Post-emergence broadleaf weed herbicide for use on hard-to-control weeds, such as violets and ground ivy.

Team 2G

Active Ingredient: Benefin, Trifluralin
Manufacturer: Various
Unit Purchase: 40-lb. (56 BG)
Units per Case: Each
Rate: 1.75 to 3.5-lb. per 1000 sq. ft.

A selective preemergence herbicide for the control of crabgrass and most other annual grasses in turf areas.

HERBICIDES

Tide Paclo 2SC

Active Ingredient: Paclobutrazol
Manufacturer: Tide International
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (12 CS)
Rate: Check label.

A systemic plant growth regulator that slows vegetative growth on turf and trees.

Treflan 5G

Active Ingredient: Trifluralin
Manufacturer: Various
Unit Purchase: 40-lb.
Units per Case: 40-lb. (56 BG)
Rate: 5.5 to 7.3-lb./1000 sq. ft.

Selective pre-emergence herbicide for the control of annual grasses and broadleaf weeds in nurseries and ornamental beds.

Triad Select

Active Ingredient: 2,4-D, MCPA, Dicamba
Manufacturer: Albaugh
Units per Case: 4 x 1-gal., 12 x 1-qt., 55 drum
Rate: 0.75 to 1.5-fl. oz./1000 sq. ft.

Selective broadleaf weed control in turf grasses including use on golf courses and sod farms to control clover, dandelion, henbit, plantains, wild onion, and many other broadleaf weeds. Also for highways, right-of-ways and other similar non-crop areas as listed on the label.

Trimec 992

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P
Manufacturer: PBI Gordon
Unit Purchase: 2.5-gal.; 55-gal.; 275-gal.
Units per Case: 2/2.5-gal. (36 CS), 55-gal. (4 DR), 275-gal. (MB)
Rate: 1.8 to 4.0 pts./acre

Lawn applicator formula for quick knockdown of problem weeds. Broad spectrum of weeds like plantain, thistle, clover, and dandelion.

Trimec 1000 Low Odor

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P
Manufacturer: PBI Gordon
Unit Purchase:
Units per Case: 2/2.5-gal. (36 CS)
Rate: .66 to 1.5-oz./1000-sq. ft.

Broadleaf herbicide for control of dandelion, clover, knotweed, henbit, chickweed, plantain and spurge and many other broadleaf weeds.

Trimec Bentgrass

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P
Manufacturer: PBI Gordon
Unit Purchase:
Units per Case: 2/2.5-gal.
Rate: 1.1 to 1.4-oz./1000-sq. ft.

Designed for 2, 4-D sensitive bentgrass. Effective against clover, sheep sorrel, knotweed, chickweed, oxalis and many other broadleaf weeds.

Trimec Classic

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P
Manufacturer: PBI Gordon
Unit Purchase: 1-gal.; 2.5-gal.; 30-gal.
Units per Case: 4 x 1-gal. (48 CS); 2 x 2.5-gal. (36 CS); 30-gal. (4 DR)
Rate: 1.0 to 1.5-oz./1000 sq. ft.

Low odor, broad spectrum herbicide for control of many broadleaf weeds like dandelion, henbit, and spurge.

Trimec Granular

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P
Manufacturer: Howard Johnson
Unit Purchase: 20-lb.
Units per Case: 20-lb. (100 BG)
Rate: 2.0-lb./1000 sq. ft..

Broadleaf granular herbicide.

HERBICIDES

Triplet Low Odor

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P
Manufacturer: NuFarm
Unit Purchase: 2.5-gal.; 30-gal.; 55-gal.; 250-gal.
Units per Case: 2 x 2.5-gal. (36 CS), 30-gal. (5 DR),
55-gal., 250-gal. (MB)
Rate: 0.67 to 1.5-oz./1000 sq. ft.

Advanced new chemistry delivers effective broad-spectrum weed control with significantly reduced odor and no residual smell. Controls dandelion, knotweed, spurge, and many other broadleaf weeds.

Triplet SF

Active Ingredient: 2,4-D Amine, Dicamba, MCPP-P
Manufacturer: NuFarm
Unit Purchase: 1-gal.; 2.5-gal.; 30-gal.; 55-gal.; 250-gal.
Units per Case: 5 x 1-gal. (36 CS), 2 x 2.5-gal. (36 CS), 30 GL
(5 DR), 55 GL (4 DR), 250 GL (MB)
Rate: 1.1 to 1.5-oz./1000 sq. ft.

A three-way post-emergent selective broadleaf herbicide containing 2,4-D, mecoprop, and dicamba. It controls dandelion, clover, henbit, plantains, wild onion, and many other broadleaf weeds in turf. The staple herbicide used for turf.

Turflon Ester Ultra

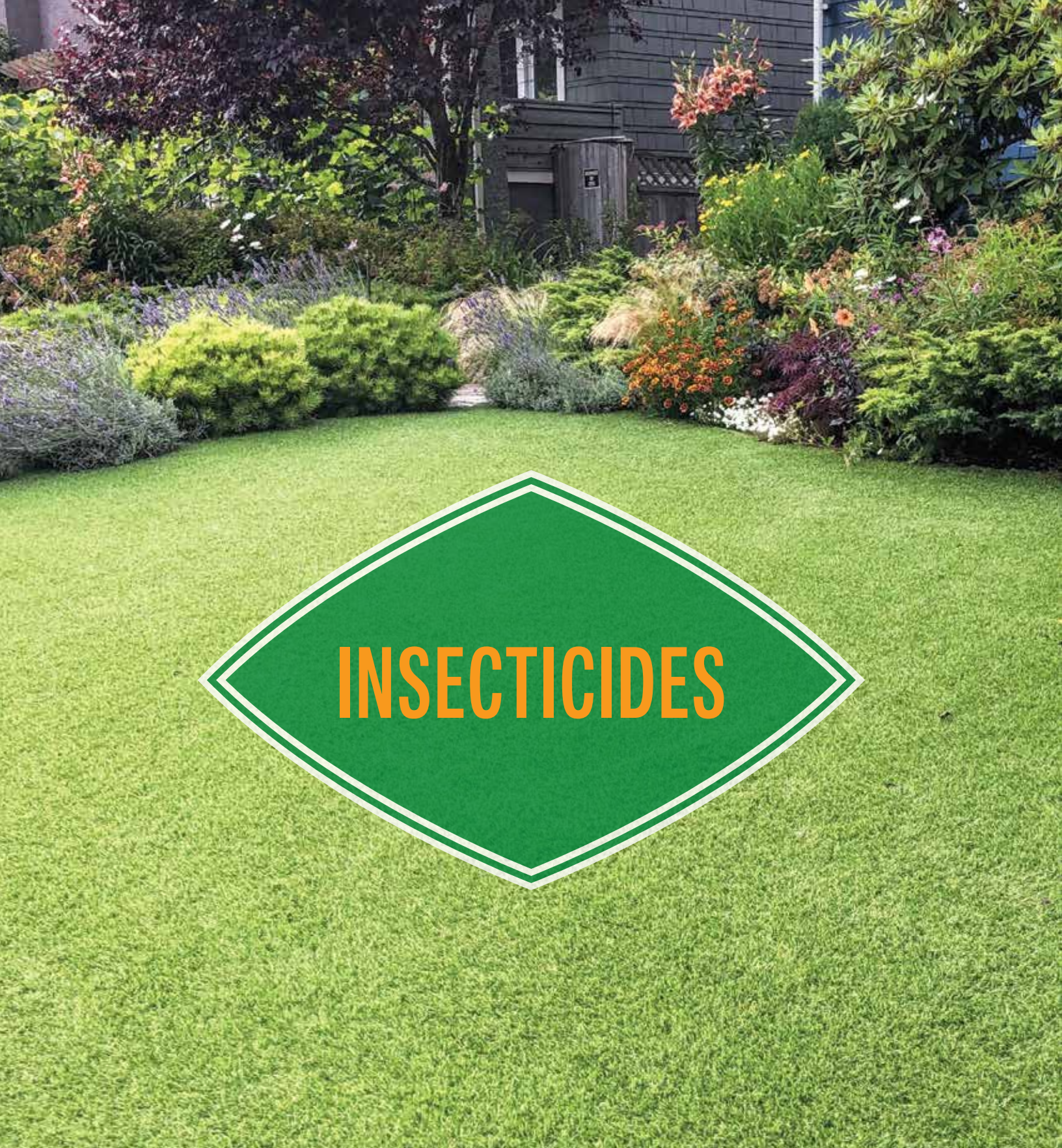
Active Ingredient: Triclopyr
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 0.18 to 0.36-oz. per 1000 sq. ft.

Ester formulation of Triclopyr. Excellent choice to control hard-to-kill weeds like wild violets.

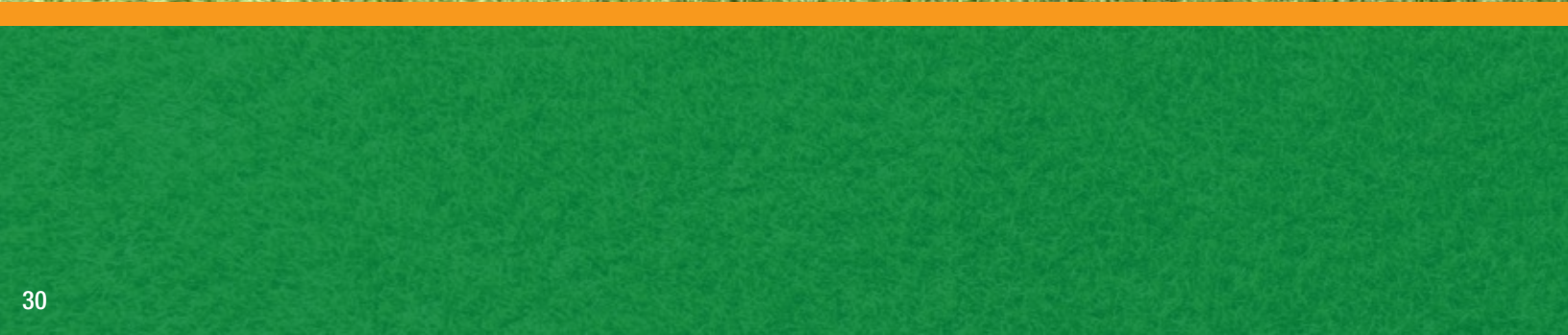
Vexis

Active Ingredient: Pyrimisulfan
Manufacturer: PBI Gordon
Unit Purchase: 2-lb. can; 15-lb. bag
Units per Case: 2-lb. can (6 CS), 15-lb. bag (112 BG)
Rate: 2-lb./500 sq. ft.

Selective herbicide for post-emergent control of listed broadleaf weeds, sedges, kylinga, and rush species commonly found in turfgrasses. It can be used on established warm-season grasses and cool-season grasses (except bentgrass mowed under 1/2").



INSECTICIDES



INSECTICIDES

Aloft LC G

Active Ingredient: Bifenthrin, Clothianidin
Manufacturer: NuFarm
Unit Purchase: 30-lb.
Rate: 1.8 to 3.6-lb./1000 sq. ft.

For contact and systemic insect pest control in lawns and landscape; ornamentals; around residential, institutional, public, commercial, and industrial buildings; parks; recreational areas; and athletic fields. Not for use on sod farms or golf courses.

Arena .25G

Active Ingredient: Clothianidin
Manufacturer: NuFarm
Unit Purchase: 30-lb.
Units per Case: 50 bags/pallet
Rate: See label for rate details.

For systemic insect control in turfgrass, sod farms, landscape ornamentals, interior plantscapes, and non-bearing fruits and nuts (in landscapes).

Arena 50WDG

Active Ingredient: Clothianidin
Manufacturer: NuFarm
Unit Purchase: Case
Units per Case: 4 x 40-oz.
Rate: See label for rate details.

For foliar and systemic control of listed insects in commercial and residential landscapes and interiorscapes, non-bearing fruit and nut trees, residential apple and pear trees, turfgrass, and sites where plants are grown for ornamental, aesthetic, and climate modification purposes.

Bifen I/T

Active Ingredient: Bifenthrin
Manufacturer: Control Solutions
Units per Case: 4 x 1-gal.
Rate: 0.18 to 1-fl. oz./1000 sq. ft.

Bifen I/T contains 7.9% bifenthrin and provides excellent control of over 75 insect pests, leaves a long-lasting residual, is odorless and non-staining, dries clear, and is safe around children and pets when used as directed. Uses include homes, commercial and industrial buildings, recreational areas, athletic fields, lawns and ornamentals, livestock, and poultry houses.

Bifenthrin 0.1% Granular

Active Ingredient: Bifenthrin
Manufacturer: Lebanon
Unit Purchase: 30-lb.
Units per Case: 30-lb. (60 BG)
Rate: 2.4-lb./1000 sq. ft.

Broad-spectrum insecticide.

Carbaryl 4L

Active Ingredient: Carbaryl
Manufacturer: Drexel
Unit Purchase: 2.5-gal. (48 CS)
Units per Case: 2 x 2.5-gal.
Rate: Check label.

Broad-spectrum insecticide for commercial and residential turf and ornamentals.

INSECTICIDES

Conserve SC

Active Ingredient: Spinosad
Manufacturer: Corteva AgriScience
Unit Purchase: 1-qt.
Units per Case: 4 x 1-qt. (4CT/CS) (72 CS)
Turf Rate: 0.25 to 1.2-oz./1000 sq. ft.;
Ornamentals Rate: 0.06 to 0.20-fl. oz./gal. of water

Conserve SC is a whole new class of chemical that contains the efficacy of synthetics with the benefits of biologicals.

Dylox 6.2G

Active Ingredient: Trichlorfon
Manufacturer: Bayer
Unit Purchase: 30-lb.
Units per Case: 30-lb. (60 BG)
Rate: 3-lb. per 1000 sq. ft.

Granular insecticides for control of "white grub" larvae of Japanese beetles, European chafers and Southern chafers in turf. For quick knockdown of subsurface insects. Short residual (7-10 days).

Mallet .5G

Active Ingredient: Imidacloprid
Manufacturer: NuFarm
Unit Purchase: 30-lb.
Units per Case: 30-lb. BG
Rate: 1.2 to 1.8-lb./1000 sq. ft.

For foliar and systemic insect control in turfgrass, including sod farms, landscape ornamentals, fruit and nut trees, and interior landscapes.

Mallet 2F

Active Ingredient: Imidacloprid
Manufacturer: NuFarm
Unit Purchase: 1-gal.; 2.5-gal.; 60-oz.
Units per Case: 4 x 1-gal. (12 CS), 2 x 2.5-gal. (36 CS)
Turf Rate: 0.46 to 0.60-fl. oz./1000 sq. ft.
Trees & Shrubs: 1.5-fl. oz./100-gal. of water

For foliar and systemic insect control in turfgrass, including sod farms, landscape ornamentals, fruit and nut trees, and interior landscapes.

Orthene Turf, Tree & Ornamental Spray

Active Ingredient: Acephate
Manufacturer: AMVAC
Unit Purchase: 0.33-lb. WSP
Units per Case: 12 (3/.33 LB)
Rate: See label. Varies with pest and plant.
Range: 0.333-lb. to 1.333-lb./100-gal. of water.

Insecticide for trees, shrubs, floral, turf, and foliage crops. Used to control gypsy moth larvae, bagworm, cankerworms, California oakworm, pine tip moth, and elm leaf beetle on trees and shrubs. Also for thrips, aphids, leafrollers, and Japanese beetles on some floral and foliage plant crops. Used to control green bug aphids in turf.

Orthene Turf, Tree & Ornamental Spray 97

Active Ingredient: Acephate
Manufacturer: AMVAC
Unit Purchase: 10-lb. bag
Units per Case: 4 x 10-lb. (36 CS)
Rate: See label. Varies with application method, pest, and plant.

Insecticide for trees, shrubs, floral, turf, and foliage crops. Used to control gypsy moth larvae, bagworm, cankerworms, California oakworm, pine tip moth, and elm leaf beetles on trees and shrubs. Also for thrips, aphids, leafrollers, and Japanese beetles on some floral and foliage plant crops. Used to control green bug aphids in turf.

Permethrin SFR

Active Ingredient: Permethrin
Manufacturer: Quali-Pro
Unit Purchase: 1.25-gal.
Units per Case: 4 x 1.25-gal. (40)
Turf Rate: 0.4 to 0.8-fl. oz./1000 sq. ft.;
Ornamentals Rate: See label.

For use to control insect pests on lawns, ornamental trees, and shrubs and around buildings for perimeter insect control.

INSECTICIDES

Safari

Active Ingredient: Dinotefuran
Manufacturer: NuFarm
Unit Purchase: 12-oz.; 3-lb.
Units per Case: 16/12-oz. (30 CS); 4/3 LB
Rate: Check label for method-specific rates.

Systemic insecticide that quickly knocks down a broad spectrum of ornamental pests with long-lasting control. Can be applied foliar, basal bark, or soil drench/injection.

Suprado

Active Ingredient: Novaluron
Manufacturer: QualiPro
Units per Case: 2 x 1-gal., 2 x 2.5-gal.
Rate: 0.7 to 3-fl. oz. / 1000 sq. ft.

For control of listed insect pests in or on golf courses, sports and recreational turf, commercial sod farms, and lawns on and around residential, commercial, and institutional properties.

Talstar Professional Insecticide

Active Ingredient: Bifenthrin
Manufacturer: FMC Corporation
Unit Purchase:
Units per Case:
Rate: 0.125 to 1.0-oz./1000 sq ft

Flexible and powerful, Talstar Professional Insecticide is the #1 product for mosquito control and ideal for lawn, landscape, and perimeter jobs. With its broad label and dependable efficacy against surface-feeding pests, Talstar® Professional insecticide has been expertly formulated to meet your specific needs.

Tempo SC Ultra

Active Ingredient: Beta-Cyfluthrin
Manufacturer: Bayer
Unit Purchase: 240 ml
Turf Rate: 5.9 to 8.75-oz./acre;
Ornamentals Rate: 1.0 to 1.5-oz./100-gal. of water

Highly effective against insects, especially the leaf-chewing insects that affect ornamental plants and turf.

Wisdom TC Flowable

Active Ingredient: Bifenthrin
Manufacturer: AMVAC
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (30 CS)
Rate: See label. Varies with pest and use area.

Broad-spectrum pest control indoors and outdoors on residential, institutional, public, commercial, and industrial buildings, as well as lawns, ornamentals, parks, recreational areas, and athletic fields.

Zylam Liquid

Active Ingredient: Dinotefuran
Manufacturer: PBI/Gordon
Unit Purchase: 1-qt.
Units per Case: 4 x 1-qt. (128 CS)
Rate: Check label.

Systemic insecticide for rapid control of damaging tree and shrub insects.



FUNGICIDES

FUNGICIDES

3336 DG Lite

Active Ingredient: Thiophanate Methyl
Manufacturer: NuFarm
Unit Purchase: 30-lb. bag
Units per Case: 6.0 to 24.0 lb per 1000 sq. ft.
Rate: 6.0 to 24.0 lb per 1000 sq. ft.

For the prevention and control of turf diseases and the diseases of annual and perennial flowers, bedding plants, foliage plants, ground covers, plus deciduous and evergreen trees and shrubs.

Captan 4L

Active Ingredient: Captan
Manufacturer: Drexel
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal.
Rate: See label.

Broad-spectrum protective fungicide for use in preventing damping off, foliar blights, leaf spots, molds, and brown patch diseases in ornamentals and golf course turf.

Captan 80 WDG

Active Ingredient: Chlorothalonil
Manufacturer: Quali-Pro
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (48 CS)
Rate: 2.2-5.5oz/1000 sq. ft.
Please check label for rates before use.

Contact fungicide that features preventative disease protection with multi-site activity with no resistance to repeated use.

Chlorothalonil 720

Active Ingredient: Captan
Manufacturer: Drexel
Unit Purchase: 6.25-lb.; 30-lb.
Units per Case: 8 x 6.25-lb. (36 CS); 30 lb (70 BG)
Rate: See label.

Broad-spectrum protective fungicide for use in preventing damping off, foliar blights, leaf spots, molds, and brown patch diseases in ornamentals and golf course turf.

Chlorothalonil 720

Active Ingredient: Chlorothalonil
Manufacturer: Drexel
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5 GL (48 CS)
Rate: 2.1 to 7.7-oz. per 1000 sq. ft.

A broad-spectrum fungicide for use on turf and ornamentals. For control of dollar spot, leaf spot, brown patch, red thread, and anthracnose. With sticker to enhance efficacy.

Chlorothalonil DF

Active Ingredient: Chlorothalonil
Manufacturer: Various
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5
Rate: 2.5-8.8lb. per acre
Please check label for rates before use.

Contact fungicide that features preventative disease protection with multi-site activity with no resistance to repeated use.

Defiant 75WDG

Active Ingredient: Thiram
Manufacturer: Taminco
Unit Purchase: 10-lb.
Units per Case: 4 x 10-lb. (30 CS)
Rate: 2.5 to 8.0-oz./1000 sq. ft.

A dual-purpose product that protects your turf from disease and your turf and ornamentals from animal damage. Prevents brown patch, dollar spot, pink snow mold, deer, rabbit, rodent, and geese damage.

Eagle .39G

Active Ingredient: Myclobutanil
Manufacturer: Howard Johnson
Unit Purchase: 30-lb.
Units per Case: 30-lb. (60 BG)
Rate: Use 4 to 8-oz. per 1000 sq. ft.

A granular product containing a systemic protectant and curative fungicide for the control of turf grass diseases in established lawns and in ornamental turfs, including golf course tees and greens and in sod farms.

FUNGICIDES

Eagle 20 EW

Active Ingredient: Myclobutanil
Manufacturer: Corteva AgriScience
Unit Purchase: 1 pt. and 1-gal.
Units per Case: 8 x 1 pt. (144-qt.); and 4 x 1-gal. (48 CS)
Rate: Use 0.6 to 1.2-oz. per 1000 sq. ft.

A preventative and curative broad-spectrum systemic turf and ornamental fungicide. Controls over 15 turf diseases.

Echo 720 (Turf Label)

Active Ingredient: Chlorothalonil
Manufacturer: Agro
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (72 CS)
Rate: 2.1 to 7.7-oz. per 1000 sq. ft.

A broad-spectrum fungicide for use on turf and ornamentals. For control of dollar spot, leaf spot, brown patch, red thread, and anthracnose. With sticker to enhance efficacy.

Echo Ultimate 82.5 WDG

Active Ingredient: Chlorothalonil
Manufacturer: Agro
Unit Purchase: 5-lb.
Units per Case: 4 x 5-lb. (48 CS)
Rate: Turf: 5.0 to 8.9-lb. per acre;
Conifers: 1.36 to 5.0-lb. per acre

A broad-spectrum fungicide for use on turf and ornamentals. For control of dollar spot, leaf spot, brown patch, red thread, and anthracnose. With sticker to enhance efficacy.

Endow 2SC

Active Ingredient: Agro
Manufacturer: SipcarnAdvan
Unit Purchase: 1-gal.
Units per Case: 2 x 1-gal. (16 CS)
Rate: 0.38-fl. oz. to 1.35-fl. oz. per 1000 sq. ft.

Broad-spectrum fungicide for control of plant diseases.

Fame SC Fungicide

Active Ingredient: Fluoxastrobin
Manufacturer: FMC Corporation
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 0.09 to 0.36-fl. oz. per 1000 sq ft

Fame® SC Fungicide, a premier fungicide for the golf course or residential lawns, is the choice for diseases like brown patch, summer patch, fairy ring, and pythium root disfunction. Its rainfastness in 15 minutes and complete uptake provide peace of mind for the applicator.

Floxcor

Active Ingredient: Fluoxastrobin
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 8 x 1 pt., 4 x .5-gal.
Rate: 4 to 16-fl. oz./acre

For control of foliar, stem, and root diseases in turf and ornamentals for commercial production; in landscape areas around residential, municipal, and commercial properties; and field-grown ornamentals and ornamentals in greenhouses, interiorscapes, and other enclosed structures.

Fore WSP Rainshield

Active Ingredient: Mancozeb
Manufacturer: Corteva AgriScience
Unit Purchase:
Units per Case: 8 (4/1.5-lb.) (18 CS)
Rate: 4.0 to 8.0-oz./1000-sq. ft.

A broad-spectrum protectant fungicide which provides a high-level of disease control.

FUNGICIDES

Fungi-Phite

Active Ingredient: Phosphorus Acid/Phosphite

Manufacturer: Verdesian

Unit Purchase:

Units per Case: 2/2.5-gal.

Rate: See label for details.

Fast-acting phosphite fungicide which helps to fight Phytophthora, Pythium, downy mildew and brown rot, as well as blue and green mold and other crop diseases. In addition, this fungicide prevents disease through multiple sites of action, inhibiting the development of resistant strains.

Kabuto SC

Active Ingredient: Isofetamid

Manufacturer: PBI/Gordon

Unit Purchase: 1-gal.

Units per Case: 4 x 1-gal.

Rate: .4 - .5-oz. per 1000 sq. ft.

Dollar spot rate: See Label for Spring Dead Spot

A fungicide for the control of dollar spot and spring dead spot.

Mefenoxam 2 AQ

Active Ingredient: Mefenoxam

Manufacturer: Quali-Pro

Unit Purchase: 1-gal.; 2.5-gal.

Units per Case: 2 x 1-gal. (72 CS); 2 x 2.5-gal. (36 CS)

Rate: 0.25 to 2.0-oz. per 1000 sq. ft.

Systemic fungicide for control of Pythium blight and root rot disease on turf and ornamentals.

Phiticide

Active Ingredient: Phosphite

Manufacturer: Drexel

Unit Purchase: 2.5-gal.

Units per Case: 2 x 2.5-gal. (36 CS)

Rate: 4 to 10 fl.-oz. per 1000 sq. ft.

Systemic fungicide for use on turfgrass such as those found on golf courses, sod farms, and other turf areas to control Pythium diseases and yellow tuft.

Previa

Active Ingredient:

Manufacturer: AMVAC

Unit Purchase:

Units per Case:

Rate: TURF: 2.0 to 5.5-fl. oz/M

ORNAMENTALS: 49 to 66.1-fl. oz/acre

A broad spectrum, contact fungicide for use on turf and ornamentals. Controls dollar spot, leaf spot, brown patch, red thread, anthracnose and several other diseases.

Pinpoint

Active Ingredient: Mandestrobin

Manufacturer: NuFarm

Unit Purchase: 60-oz.

Units per Case: 4 x 60-oz. (48)

Rate: 7.4-13.5-fl. oz./acre

Fungicide with a new active ingredient for dollar spot and several other common diseases.

Segway Fungicide

Active Ingredient: Cyazofamid

Manufacturer: PBI/Gordon

Unit Purchase: 39.2-oz.

Units per Case: 12 x 39.02-oz.

Rate: Various rates, please see label.

Fungicide for control of Pythium disease in turfgrass.

Spectro 90 WDG

Active Ingredient: Chlorothalonil, Thiophanate-Methyl

Manufacturer: NuFarm

Unit Purchase: 5-lb.; 24-lb.

Units per Case: 4 x 5-lb. (48 CS); 24-lb. (36 PL)

Rate: 2 to 8-oz. per 1000 sq. ft. in turf; 0.75 to 1.5-lb. to 100-gal. in ornamentals.

Broad-spectrum contact and systemic fungicide for use on golf course and ornamental turfgrass as well as on ornamental plants, trees, and shrubs.

FUNGICIDES

Spotrete FL

Active Ingredient: Thiram
Manufacturer: Cleary Chemical
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 3.75 to 12.0-fl. oz./1000 sq. ft.

Flowable Thiram turf fungicide. Fungicide action controls brown patch, dollar spot, and snow mold.

Tebuconazole 3.6F

Active Ingredient: Tebuconazole
Manufacturer: Albaugh
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (36 CS)
Rate: 0.6-oz. to 1.1-oz. per 1000 sq. ft.

For control of diseases on ornamentals and golf courses.

Traction

Active Ingredient: Fluazinam, Tebuconazole
Manufacturer: NuFarm
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 1.3-fl. oz./1000 sq. ft.

Premix two-way contact and systemic fungicide for golf course disease programs. Effectively controls 19 challenging diseases.

Trinity

Active Ingredient: Triticonazole
Manufacturer: BASF
Unit Purchase:
Units per Case: 2/2.5-gal., 4/.5-gal. (30 CS)
Rate: 0.5 to 2.0-fl. oz./1000-sq. ft.

A broad spectrum fungicide for disease control on commercial, residential, parks, sports fields and sod farms.

Turfcide 10G

Active Ingredient: PCNB
Manufacturer: Amvac
Unit Purchase: 50-lb. (40 BG)
Units per Case: Each
Rate: See label. Varies with disease and turf species.
2.0 to 10.0-lb./1000 sq. ft. range

Preventative granular fungicide recommended for control of certain soil-borne diseases of turf and certain ornamental crops.

Turfcide 400

Active Ingredient: PCNB
Manufacturer: Amvac
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: See label. Varies with disease and turf species.
Range: 5.0 to 24-oz./1000 sq. ft.

Preventative granular fungicide recommended for control of certain soil-borne diseases of turf and certain ornamental crops.

T-Methyl 4.5F SPC

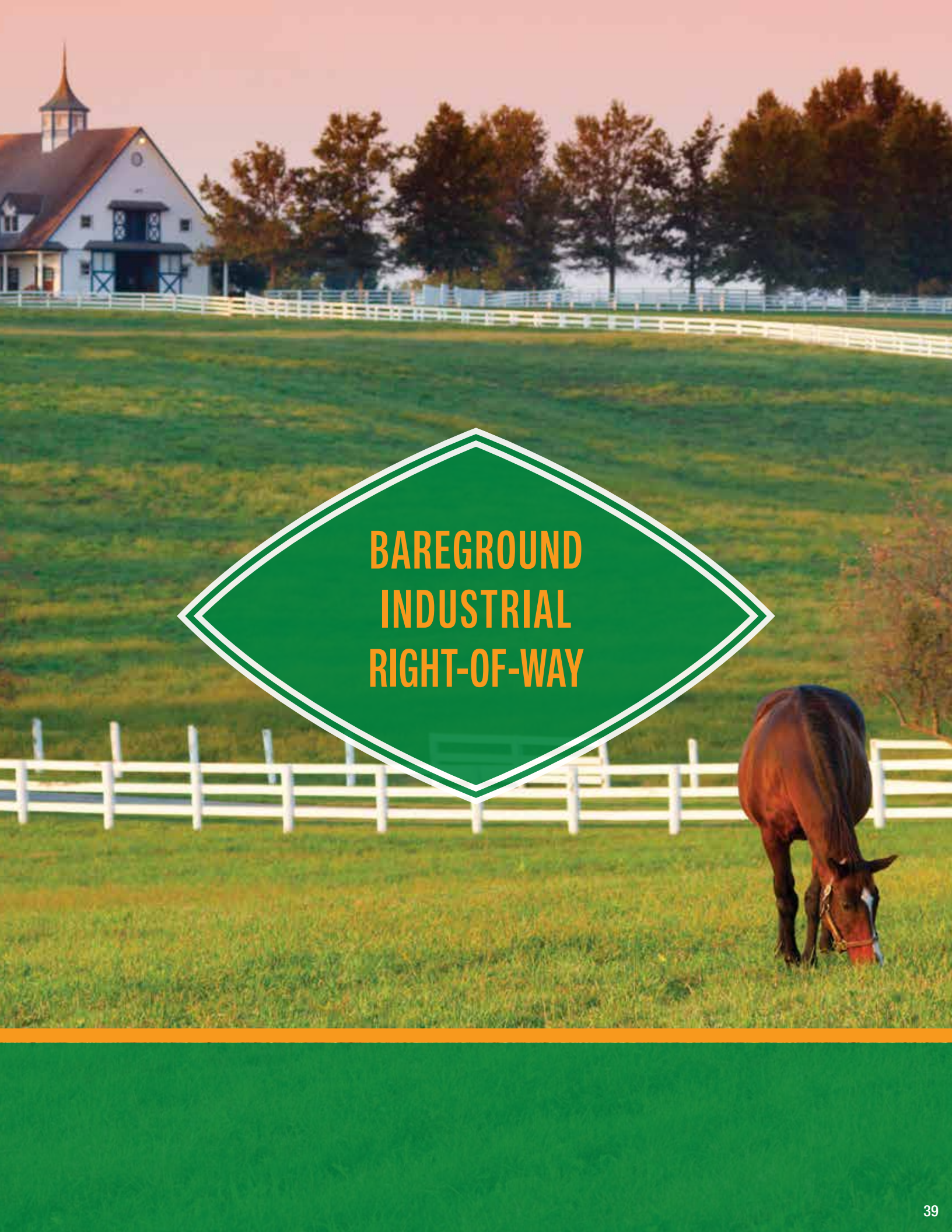
Active Ingredient: Thiophanate-Methyl
Manufacturer: NuFarm
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal.
Rate: Turf: 2.0 to 6.0-oz./1000 sq. ft.; Ornamentals:
8.0 to 16.0-oz./100-gal. of water

For the prevention and control of turf diseases and the diseases of annual and perennial flowers, bedding plants, foliage plants, ground covers, plus deciduous and evergreen trees and shrubs.

T-Methyl 50 WSB SPC

Active Ingredient: Thiophanate-Methyl
Manufacturer: NuFarm
Unit Purchase: 4-oz.; 8-oz.
Units per Case: 6 x 4/8-oz. (54 CS)
Rate: Turf: 2.0 to 6.0-oz./1000 sq. ft.;
Ornamentals: 8.0 to 16.0-oz./100-gal. of water

For the prevention and control of turf diseases and the diseases of annual and perennial flowers, bedding plants, foliage plants, ground covers, plus deciduous and evergreen trees and shrubs.



**BAREGROUND
INDUSTRIAL
RIGHT-OF-WAY**

BAREGROUND / INDUSTRIAL / RIGHT-OF-WAY

Arsenal

Active Ingredient: Imazapyr
Manufacturer: BASF
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (24 CS)
Rate: 2 to 6 pts. in 10 to 60-gal. of water per acre

Pre-emergence and post-emergence herbicide for non-cropland areas. Controls annual and perennial broadleaf weeds and grasses plus woody plants.

Chaparral

Active Ingredient: K, Metsulfuron-Methyl
Manufacturer: Corteva AgriScience
Unit Purchase: 1.25-lb.
Units per Case: 6 x 1.25-lb. (80 CS)
Rate: 1.5-oz. to 3.0-oz. per acre

For control of susceptible weeds and certain woody plants, including invasive and noxious weeds, on rangeland, permanent pasture, grass pastures, CRP acres, and wildlife management areas.

Crossbow

Active Ingredient: 2,4-D, Triclopyr Ester
Manufacturer: Various
Unit Purchase: 1-gal. and 2.5-gal.
Units per Case: 4 x 1-gal. (48 CS); 2 x 2.5-gal. (36 CS)
Rate: 1 to 1.5-gal. per 100-gal. of water

Selective herbicide for foliar sprays, dormant stems, basal bark, and cut stump treatments. Controls several woody plants and broadleaf weeds in pastures, ditch banks, roadsides, and other non-cropland areas.

Diuron 4L

Active Ingredient: Diuron
Manufacturer: Various
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (48 CS)
Rate: 0.6-qt. to 4.8-qts. per acre

Liquid pre-emergence bareground herbicide for non-cropland areas and irrigation and drainage ditches. Controls annual broadleaf weeds and certain grasses, such as kochia, Russian thistle, pigweed, and foxtail.

Diuron 80 DF

Active Ingredient: Diuron
Manufacturer: Various
Unit Purchase: 25-lb.
Units per Case: 25-lb. (40)
Rate: 5.0 to 15-lb. per acre

Liquid pre-emergence bareground herbicide for non-cropland areas and irrigation and drainage ditches. Controls annual broadleaf weeds and certain grasses, such as kochia, Russian thistle, pigweed, and foxtail.

Escort XP

Active Ingredient: Metsulfuron
Manufacturer: Bayer
Unit Purchase: 16-oz.
Units per Case: 8 x 16-oz. (64 CS)
Rate: Check label.

Post-emergence control of many annual and perennial weeds and woody plants in non-crop areas and conifer plantings. Some pre-emergence control.

Freelexx

Active Ingredient: 2, 4-D Choline Salt
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal. (36 CS)
Units per Case: 2 X 2.5-gal.
Rate: 1.5 to 8 pints per acre (see label)

For selective control of many broadleaf weeds in forests, grass pastures, rangeland, Conservation Reserve Program acres, ornamental turfgrass (including turfgrass grown for sod or seed), non-cropland, and aquatic areas as listed. Also for control of trees by injection.

BAREGROUND / INDUSTRIAL / RIGHT-OF-WAY

Hyvar X-L

Active Ingredient: Bromacil
Manufacturer: Bayer
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal.
Rate: Brush Control: Undiluted basal soil application through a spot gun at 5 to 10 mils. per 2" to 4" basal diameter.

Non-selective pre-emergence herbicide for non-cropland areas. Controls perennial broadleaf weeds and grasses plus many brush species.

Karmex DF

Active Ingredient: Diuron
Manufacturer: Various
Unit Purchase: 5-lb.
Units per Case: 10 x 5-lb. (24 CS)
Rate: 5.0 to 15.0-lb./acre

Dry pre-emergence bareground herbicide for non-cropland areas, irrigation and drainage ditches. Controls annual broadleaf weeds and certain grasses, such as kochia, Russian thistle, pigweed, and foxtail.

Krovar DF

Active Ingredient: Bromacil, Diuron
Manufacturer: Bayer
Unit Purchase: 6-lb.
Units per Case: 8 x 6-lb. (18 CS)
Rate: Check label.

A dispersible granule. Mix with water and apply as a spray for selective control of weeds in citrus and for non-crop weed control. Do not use in recreational areas or in or around homes.

Milestone

Active Ingredient: Aminopyralid
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 3-7-fl. oz. per acre

For control of susceptible weeds and certain woody plants on non-cropland areas.

Mojave 70 EG

Active Ingredient: Diuron, Imazapyr
Manufacturer: Alligare
Unit Purchase: 5-lb.
Units per Case: 10 x 5-lb. (24 CS)
Rate: 10-lb./acre

Non-selective pre-emergence and early post-emergence residual herbicide for non-cropland areas. Controls annual and perennial broadleaf weeds and grasses plus woody plants.

Oust Extra

Active Ingredient: Metsulfuron, Sulfometuron
Manufacturer: ENVU
Unit Purchase: 4-lb.
Units per Case: 4-lb. (8 JG)
Rate: Check label.

Controls many annual and perennial grasses and broadleaf weeds in conifer plantations and non-crop areas.

Oust XP

Active Ingredient: Sulfometuron Methyl
Manufacturer: ENVU
Unit Purchase: 3-lb.
Units per Case: 8 x 3-lb. (18 CS)
Rate: Use 1-oz. per acre.

Pre-emergence and post-emergence herbicide for roadsides, right-of-ways, and many other non-cropland areas. Controls many annual and perennial broadleaf weeds and grasses.

Overdrive

Active Ingredient: Dicamba, Diflufenzopyr
Manufacturer: BASF
Unit Purchase: 7.5-lb.
Units per Case: 4 x 7.5-lb. (20 CS)
Rate: 4-oz. to 8-oz. per acre

For broadleaf weed control on non-cropland sites, CRP lands, pasture, hay, and rangeland.

BAREGROUND / INDUSTRIAL / RIGHT-OF-WAY

Pathfinder II RTU

Active Ingredient: Triclopyr
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: Wet stump or brush to point just before run-off.

Ready-to-use herbicide for control of woody plants on forests, non-crop areas, industrial sites, rights-of-way, and non-irrigation ditch banks.

Pathway RTU

Active Ingredient: Triclopyr
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: Wet stump or brush to point just before run-off.

For controlling unwanted trees via cut-surface treatments in forests and non-cropland areas such as fencerows, roadsides, and rights-of-way.

Perspective

Active Ingredient: Aminocycloprachlor, Chlorsulfuron
Manufacturer: Bayer ES
Unit Purchase: 1.25-lb. and 5-lb.
Units per Case: 12 x 1.25-lb. (36); and 8 x 5-lb. (18)
Rate: 1.75-oz. to 11-oz. per acre

Pre-emergence and/or post-emergence control of broadleaf weeds in non-crop areas such as uncultivated non-agricultural areas, airports, highway, railroad utility right-of-ways and natural areas such as wildlife management areas, wildlife openings, and wildlife habitats.

Pramitol 25E

Active Ingredient: Prometon
Manufacturer: Control Solutions
Unit Purchase: 1-gal.; 2.5-gal.; 30-gal.
Units per Case: 4 x 1-gal. (36 CS), 2 x 2.5-gal. (36 CS), 30-gal. (5 DR)
Rate: 5 to 10-gal. in 50 to 100-gal. of water per acre

Non-selective pre-emergence and early post-emergence bareground herbicide for non-cropland areas. Controls annual and perennial grasses and broadleaf weeds.

Pramitol 5 PS

Active Ingredient: Prometon
Manufacturer: Control Solutions
Unit Purchase: 25-lb.
Units per Case: 25-lb. (80 BG)
Rate: Use 150 to 200-lb. per acre.

Non-selective pre-emergence and early post-emergence residual herbicide for non-cropland areas. Controls annual and perennial grasses and broadleaf weeds.

Roundup QuikPRO SC Total

Active Ingredient: Indaziflam, Diquat, Glyphosate
Manufacturer: Bayer
Unit Purchase: 2.5-gal.; 144-oz.
Units per Case: 2 x 2.5-gal.; 4 x 144-oz.
Rate: 16-oz./1-gal. water

Non-selective control of emerged and pre-emerged grasses and broadleaf weeds in non-crop areas, including paths, parking lots, curbs, sidewalks, driveways, around buildings, gravel areas, loading ramps, educational facilities, storage yards, vacant lots, fencerows, parks, hardscapes (including crack and crevice), municipal, mulched areas, landscape ornamental beds, and government sites.

BAREGROUND / INDUSTRIAL / RIGHT-OF-WAY

Spike 20P

Active Ingredient: **Tebuthiuron**
Manufacturer: Corteva AgriScience
Unit Purchase: 5-lb.
Units per Case: 6 x 5-lb. (30 CS)
Rate: Use 0.25-oz. of pellets per 1" to 2" of stem diameter.

Pelleted herbicide for brush and woody plant control in pastures, rangeland, right-of-ways, and non-cropland. Controls oaks, sumacs, elms, maples, hickory, and many other woody plants.

Stalker

Active Ingredient: **Imazapyr**
Manufacturer: BASF
Unit Purchase: 1-qt.
Units per Case: 4 x 1-qt.
Rate: 8-oz. to 16-oz. in 1-gal. of water

For control of brush in non-cropland areas such as railroad, utility, highway, and pipeline right-of-way plant sites and fencerows.

SureGuard EZ

Active Ingredient: **Flumioxazin**
Manufacturer: NuFarm
Unit Purchase: 1 pt.
Units per Case: 8/1-pt. (144-qt.)
Rate: 8.0 to 12-fl. oz./acre

Pre-emergent and post-emergent weed control in a convenient formulation for aquatics, bareground, commercial and residential landscapes, tree wells, gravel areas, driveways, and other similar sites.

Telar DF, Telar XP

Active Ingredient: **Chlorsulfuron**
Manufacturer: A. Zelis / ENVU
Unit Purchase: 16-oz.
Units per Case: 8 x 16-oz. BTL
Rate: 0.25-oz. to 3-oz. per acre

For control of annual, biennial, and perennial broadleaf weeds on non-crop, industrial sites such as airports, fencerows, roadsides, and associated right-of-ways.

Tordon RTU

Active Ingredient: **2,4-D Amine, Picloram**
Manufacturer: Corteva AgriScience
Unit Purchase: 1-qt.
Units per Case: 12 x 1-qt. BTL
Rate: Use undiluted on freshly cut stumps

Ready-to-use herbicide for cut applications of brush and trees. Controls trees and brush in forests, fencerows, roadsides, right-of-ways, and other non-cropland areas.

Transline

Active Ingredient: **Clopyralid**
Manufacturer: Corteva AgriScience
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 0.25-oz. to 1.3-oz. per acre

For selective control of broadleaf weeds in non-cropland areas, industrial manufacturing and storage sites, right-of-ways, and wildlife openings, including grazed areas on these sites, tree plantations and rangeland, and permanent grass pastures.

Viewpoint

Active Ingredient: **Aminocyclopyrachlor, Imazapyr, Metsulfuron**
Manufacturer: Bayer ES
Unit Purchase: 5-lb.
Units per Case: 8 x 5-lb. (18 CS)
Rate: 13-oz. to 20-oz. per acre

Pre-emergence and/or post-emergence control of broadleaf weeds in non-crop areas such as uncultivated non-agricultural areas, airports, highways, railroad utility right-of-ways and natural areas such as wildlife management areas, wildlife openings, and wildlife habitats.



A person wearing a red shirt is operating a tractor with a large white tank and a spray boom on a golf course. The tractor is moving across the grass, and the spray boom is extended. The background shows a green lawn and several trees.

**ADJUVANTS
SURFACTANTS
COLORANTS**

ADJUVANTS / SURFACTANTS / COLORANTS

Border 2.0

Active Ingredient: Surfactant
Manufacturer: Precision
Unit Purchase: 1-qt. and 2.5-gal.
Units per Case: 12/1-qt.; 2/2.5-gal.
Rate: 2.0 to 4.0 pts./100-gal.

Concentrated liquid adjuvant for spray droplet management that improves droplet retention while reducing off-target movement.

Cascade Plus

Active Ingredient: Surfactant
Manufacturer: Precision
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (48 CS)
Rate: 4 to 8-oz. per 1000 sq. ft.

A combination of non-ionic surfactants that hydrate the soil and penetrate to provide deeper, more uniform water infiltration.

Cascade Plus 16G

Active Ingredient: Surfactant
Manufacturer: Precision
Unit Purchase: 42-lb. (50 BG)
Units per Case: 42-lb.
Rate: 3.5 to 7-lb. per 1000 sq. ft.

A combination of non-ionic surfactants that hydrate the soil and penetrate to provide deeper, more uniform water infiltration.

Chem-Stik

Active Ingredient: Surfactant
Manufacturer: Precision
Unit Purchase: 1-gal. (48 CS); 20-gal.
Units per Case: 4 x 1-gal.
Rate: 4.0 to 8.0-oz. per 100-gal.

Non-ionic spreader sticker.

Delux

Active Ingredient: Surfactant
Manufacturer: Precision
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (24 CS)
Rate: 4.0 to 5.0-pts. per 100-gal. with phenoxyes;
5.0 to 10.0-qts. per 100-gal. with Manage or
glyphosate in 10 to 15-gal. per acre.

Biodegradable activator surfactant and ammonium sulfate premix.

DRI Spreader-Sticker

Active Ingredient: Surfactant
Manufacturer: KALO
Unit Purchase: 1-oz. bag
Units per Case: 4/50 x 1-oz. box (24 CS)
Rate: 1-oz. per 2-gal. of spray mix

Dry, water-soluble powder for use with any herbicide or pesticide specifying use of non-ionic surfactant.

Elite Premier Blue Dye

Active Ingredient: Dye
Manufacturer: Red River Specialities
Unit Purchase: 12.5-gal.; 15 pt
Units per Case: 12.5-gal. (9 DR); 2/15 pt (48 CS)
Rate: 1:4 (20%) or 1:3 (25%) dilution ratios

A unique, highly emulsified, low-viscosity, non-aromatic diluent developed for basal-bark and cut-surface brush-control applications.



ADJUVANTS / SURFACTANTS / COLORANTS

EZ Tab Applicator

Manufacturer: Precision
Unit Purchase: 1
Units per Case: Each (10 EA)
Rate: N/A

Applicator designed to deliver EZ Tabs to the needed areas.

EZ Tabs

Manufacturer: Precision
Unit Purchase: Case
Units per Case: 24 x 6-oz.
Rate: 6-oz. per 2500 sq. ft.

An easy-to-use tablet, containing the same active ingredient as Magnus, designed to hydrate the plant root zone and provide a rescue treatment for hot spots.

Knockdown

Active Ingredient: Defoamer
Manufacturer: Precision
Unit Purchase: 1-qt.
Units per Case: 12 per 1-qt. (48 CS)
Rate: See label. Varies with disease and turf species.
2.0 to 10.0-lb./1000 sq. ft. range

Foam suppressant.

Microyl (MSO replacement)

Active Ingredient: Oil, Surfactant
Manufacturer: Precision
Unit Purchase: 1-gal. and 2.5-gal.
Units per Case: 4 x 1-gal.(48 CS); 2 x 2.5-gal. (48 CS)
Rate: 3.0 to 4.0 pts per 100-gal.

Activator adjuvant provides superior performance and improved turfgrass safety at lower use rates than ordinary crop oil.

New Balance

Active Ingredient: Buffer, Surfactant
Manufacturer: Precision
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (48 CS)
Rate: Check label.

Citric-based, pH acidifier, buffer, and nonionic surfactant.

Nu Film IR

Active Ingredient: Buffer, Surfactant
Manufacturer: Red River Specialities
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (36 CS)
Rate: 8-oz. to 16-oz. per 100-gal. water

Non-ionic sticker-spreader for use only with herbicides designed for application on right-of-ways, non-crop areas, ditch banks, industrial sites, and in forestry programs.

Penn-A Trate II

Active Ingredient: Surfactant
Manufacturer: Precision
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (44)
Rate: 0.125 to 0.5% v/v or 1.0 to 4.0 pts. per 100-gal.

Low-foaming, nonionic surfactant.

Play-Off

Active Ingredient: Wintergreen Fragrance
Manufacturer: EXACTO
Unit Purchase: 1-qt.
Units per Case: 12 x 1-qt. (60 CS)
Rate: See label. Varies with disease and turf species.
5.0 to 24-oz./1000 sq. ft. range

Wintergreen scent and masking agent.

ADJUVANTS / SURFACTANTS / COLORANTS

Precise Lawn

Active Ingredient:	Soil Penetration
Manufacturer:	Precision
Unit Purchase:	25-lb.
Units per Case:	25-lb. (80 BG)
Rate:	5-lb. per 1000 sq. ft.

Maximizes the flow of water into the soil and increases retention of water in soil pore spaces around plant roots.

Regreen

Active Ingredient:	Colorant
Manufacturer:	Precision
Unit Purchase:	2.5-gal.
Units per Case:	2/2.5-gal. (48 CS)
Rate:	Dormant Turf: 12.0 + 84 to 108-oz. of water/1000 sq. ft. or 4-gal. + 31 to 35-gal. of water/acre;
	Non-Dormant Turf: 0.5 pt. + 7.5 to 10 pts. of water/1000 sq. ft. or 2.75-gal. + 40 to 54-gal. of water/acre

Non-phytotoxic colorant that imparts long-lasting, natural color to dormant and non-dormant turf.

Runway

Active Ingredient:	Foam Marker
Manufacturer:	Precision
Unit Purchase:	1-qt.
Units per Case:	12 x 1-qt. (50 CS)
Rate:	3.0-oz./2 gallons

Quickly dissipating turf foam marker.

Signal

Active Ingredient:	Colorant
Manufacturer:	Precision
Unit Purchase:	1-gal.
Units per Case:	4 x 1-gal. (48 CS)
Rate:	1.0-qt. per 100 gallons

Highly visible blue spray pattern indicator.

Signal Blue EZ Solupak

Active Ingredient:	Colorant
Manufacturer:	Precision
Unit Purchase:	2-oz.
Units per Case:	48 x 2-oz. (60 CS)
Rate:	1.0 pack per 50 gallons

Highly visible blue spray pattern indicator.

Signal Green EZ Solupak

Active Ingredient:	Colorant
Manufacturer:	Precision
Unit Purchase:	2-oz.
Units per Case:	48 x 2-oz.
Rate:	1.0 pack per 50 gallons

Highly visible green spray pattern indicator.

Speed

Active Ingredient:	Surfactant
Manufacturer:	Precision
Unit Purchase:	1-gal.
Units per Case:	4 x 1-gal. (48)
Rate:	Follow pesticide label. If no recommendations, use 6.0 to 13.0-oz. per 100-gal.

Low-foaming, low-use rate, nonionic siloxane surfactant.

ADJUVANTS / SURFACTANTS / COLORANTS

Super Signal Blue

Active Ingredient: Colorant
Manufacturer: Precision
Unit Purchase: 1-qt.
Units per Case: 12 x 1-qt. (50 CS); 2 x 2.5-gal. (48 CS); 30-gal.
Rate: 16.0 to 32.0-oz. per 100-gal.

Concentrated blue spray pattern indicator.

Super Signal Green

Active Ingredient: Colorant
Manufacturer: Precision
Unit Purchase: 1-qt.
Units per Case: 12 x 1-qt. (50 CS)
Rate: 16.0 to 32.0-oz. per 100-gal.

Concentrated green spray pattern indicator.

SYNC

Active Ingredient: Surfactant
Manufacturer: Precision
Unit Purchase: 1 pt.
Units per Case: 12 x 1 pt. (64 CS)
Rate: 1 pt. per 100-gal. of spray solution

Proprietary adjuvant that enhances performance of contact and systemic fungicides.

Transport Ultra

Active Ingredient: Surfactant; AMS
Manufacturer: Precision
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal. (48 CS)
Rate: 1.0 to 2.0-qts. per 100-gal.

Combination of nonionic surfactant, water conditioning agents, and ammonium ions that replaces the need for ammonium sulfate.



**SPECIALTY
PRODUCTS**



SPECIALTY PRODUCTS

SPECIALTY

AquaLock

Manufacturer: Precision
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal.
Turf Rate: 2-8-oz. in 1-2-gal./1000 sq. ft.;
Ornamentals Rate: 4-8-oz. in 1-gal. of water

Anti-transparent designed to protect plants against drought, extreme temperatures, wind, and sunscald.

Deadline Ornamental - Mini-Pellets

Active Ingredient: Metaldehyde
Manufacturer: AMVAC
Unit Purchase: 50-lb.
Units per Case: 50-lb. (40)
Rate: 0.25-lb./1000 sq.ft.

Used as a slug and snail barrier around gardens or individual plants. Outdoor use only.

Hinder

Active Ingredient: Ammonium Soap of Fatty Acid
Manufacturer: Amvac
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (36 CS)
Rate: See label. Varies with animal target and plant.

Protects plants by forming a mild odor barrier that is inoffensive to humans. For use on vegetable, fruit, flower, vine, and nursery plants and shrubs.

Talpirid Mole Bait

Manufacturer: Bell Labs
Unit Purchase: 20 worms
Units per Case: 20 worms per box (5 BX)
Rate: Check label.

Talpirid's size, shape, and feel of bait lets moles consume it in the same manner as its primary food source, the earthworm. Special enhancers ensure immediate attraction and excellent product appearance.

Transfilm

Active Ingredient: Oxidized Polyethylene, Polymeric Terpenes
Manufacturer: PBI/Gordon
Unit Purchase: 2.5-gal.; 30-gal.
Units per Case: 4 x 1-gal. (48 CS)
Rate: Check label.

Provides the best protection available for winter desiccation, windburn, sun-scald, and salt air damage.

GROWTH REGULATOR

Anuew

Active Ingredient: PGR
Manufacturer: NuFarm
Unit Purchase: 1.5-lb.
Units per Case: 4 (4 x 1.5-lb.) (18 CS)
Rate: Consult label for turf species.

Plant growth regulator for cool- and warm-season turf. Extended re-application interval.

SPECIALTY PRODUCTS

NUTRITIONAL/BIOSTIMULANT

Dynaphite 0-28-26

Active Ingredient: P, K
Manufacturer: Drexel
Unit Purchase: 275 GL Tote
Units per Case: 275 GL Tote
Rate: See label

Liquid fertilizer designed for correcting phosphorus and potassium deficiencies in turfgrasses and ornamentals.

FeRRROMEAC AC

Active Ingredient: N, Fe, S
Manufacturer: PBI Gordon
Unit Purchase: 2.5-gal. and 55-gal.
Units per Case: 2 x 2.5-gal. (36 CS); 55-gal.
Rate: 2 to 8-oz./1000 sq. ft.

An amine-compatible iron formulation containing nitrogen and sulfur designed to produce rapid turf green-up.

FlexN 28-0-0

Active Ingredient: Nitrogen
Manufacturer: GROWMARK
Unit Purchase: 2.5-gal.; 275-gal.
Units per Case: 2 x 2.5-gal. (36 CS); 275-gal.
Rate: Check label.

Foliar slow-release, liquid fertilizer designed to be available when the plants are ready to use it. FlexN dispenses a consistent source of nitrogen at gradual rates, to provide maximum N uptake and utilization.

Sprint 330 10%Fe

Active Ingredient: Fe
Manufacturer: BASF
Unit Purchase: 5-lb.
Units per Case: 6 x 5-lb. (30 CS)
Rate: Check label.

Iron chelate micronutrient.

Humik Bio

Active Ingredient: Humic Acids
Manufacturer: HGS BioScience
Units per Case: 50 lb, 2000 lb
Rate: See label for details.

Humik Bio is an effective and convenient way to deliver humates to the soil, improving soil structure and increasing cation exchange capacity across all soils and conditions. Provides the benefits of humic acids, sea plant extracts, and microbes in a granule that is easy to apply with standard fertilizers.

NutriFuse Crossfit

Active Ingredient: Nutritional: 0-0-5 .25B, 1Cu, 2Mn, .1Mo, 1 Zn
Manufacturer: BASF
Units per Case: 2/2.5-gal. (36); 265 MB; Bulk
Rate: 1 -2 Qt. / acre

Nutritional product that combines the most available form of potassium with key micronutrients, and pairs it with a biostimulant. The resulting formulation can assist in nutrient uptake and help drive root growth to build a plant and root system for healthier plants!

Periscope

Active Ingredient: PGR
Manufacturer: Vivid Life Sciences
Unit Purchase:
Units per Case:
Rate: Check label.

A 3-in-1 tool to fight stress and drive lush growth in turf, ornamentals, and sod. Improves germination, emergence, root growth, seedling development, sod establishment, tillering, and lateral growth. Unique balance of three growth-stimulating plant hormones mitigates short-term stress and supports faster turf recovery from stress events. Periscope works best when tank-mixed with fertilizers or used around soil or foliar fertilizer applications.



AQUATICS

AQUATICS

BIOLOGICALS/ SLUDGE CONTROL

Bacti-Klear

Active Ingredient:	Biological
Manufacturer:	SePRO
Unit Purchase:	1-gal.
Units per Case:	4 x 1-gal. (48 CS)
Rate:	20-lb. per surface acre or 3-gal. per acre foot

Naturally occurring sludge-digesting bacteria designed to decrease levels of organic sediment on lakes and ponds while reducing odors and improving water clarity.

Devour

Active Ingredient:	Biological
Manufacturer:	Precision
Unit Purchase:	8-oz.
Units per Case:	24 x 8-oz. (60 CS)
Rate:	Initial: 3.0 to 6.0-lb. per acre Maintenance: 1.5 to 2.0-lb. per acre

Proprietary blend of enzymes as well as facultative and nonfacultative bacteria accelerates breakdown of partially decomposed organic matter.

Precise Pond

Active Ingredient:	Biological
Manufacturer:	Precision
Unit Purchase:	Case
Units per Case:	24 x 8-oz. (60 CS); 60 x 8-oz. (36 CS)
Rate:	Initial: 3-6-lb. per surface acre Maintenance: 1.5 to 2.0-lb. per surface acre

Precise Pond is a combination of enzymes and bacteria that preemptively digest phosphorus and nitrogen in the water column.

Spectrum

Active Ingredient:	Biological
Manufacturer:	Precision
Unit Purchase:	8-oz.
Units per Case:	24 x 8-oz. (60 CS); 120 x 8-oz.
Rate:	Initial: 3.0 to 6.0-lb. per acre Maintenance: 1.5 to 2.0-lb. per acre

Function-specific formulation of select bacteria strains that improves water quality by reducing nutrient levels and suspended organic matter in the water.

HERBICIDES/ALGAECIDES

Aquamaster (Glyphosate 53.8%)

Active Ingredient:	Glyphosate
Manufacturer:	Bayer
Unit Purchase:	2.5-gal. and 30-gal.
Units per Case:	2 x 2.5-gal.; 30-gal.
Rate:	Check label.

Aquatic herbicide containing glyphosate. This product mixed with water and non-ionic surfactant may be applied as a foliar spray for control of many herbaceous plants. Great on cattails.

Aquashade

Active Ingredient:	Dye
Manufacturer:	SePRO
Unit Purchase:	1-gal.; 2.5-gal.
Units per Case:	4 x 1-gal. (42 CS); 2 x 2.5-gal. (36 CS)
Rate:	1 to 2-qts. per acre foot

Inhibits growth of algae and submerged aquatic weeds in non-flowing lakes, ponds, and fountains. A water colorant dye that blocks sunlight. Safe for the environment.

AQUATICS

Aquasweep

Active Ingredient:	2,4-D Amine, Triclopyr
Manufacturer:	Nufarm
Unit Purchase:	30-gal.
Units per Case:	30-gal. (5 DR)
Rate:	Check label.

For control of emergent, floating, and submerged aquatic weeds in the following sites: ponds, ditches, seasonal irrigation canals and ditches that have little or no continuous outflow, and impounded rivers and streams that are quiescent or slow moving.

Aquathol K

Active Ingredient:	Endothal
Manufacturer:	UPI
Unit Purchase:	
Units per Case:	2/2.-gal. (36 CS), 30-gal. (5 DR)
Rate:	0.05 - 3.0 parts/million

A liquid formulation of the dipotassium salt of endothal, which is effective against a broad range of aquatic plants.

Aquathol Super K

Active Ingredient:	Endothal
Manufacturer:	UPI
Unit Purchase:	10-lb. or 20-lb. BG
Units per Case:	4/10 lb (24 CS) or 2/20 lb (18 CS)
Rate:	1.5 to 5.0 parts per million

Dry granules containing 63% of dipotassium salt of endothal. Aquathol is effective against a broad range of aquatic plants with a wide margin of safety to fish.

Clearigate (Applicator Only)

Active Ingredient:	Copper
Manufacturer:	SePRO
Unit Purchase:	5-gal. (36 PAILS)
Units per Case:	Pail
Rate:	Check label.

A chelated copper formulation containing an emulsified surfactant/penetrant for highly effective control of algae and vegetation.

Copper Sulfate

Active Ingredient:	Copper
Manufacturer:	Various
Unit:	6 x 5-lb. (25 CS); 50-lb.
Rate:	10.8-lb. per surface acre

For algae control in lakes, ponds, and along lake margins. Also effective for moss and algae control in lawns and greenhouses.

Citrine Granular

Active Ingredient:	Copper
Manufacturer:	SePRO
Unit Purchase:	30-lb. (60 BG); 4 x 12-lb.
Units per Case:	Each
Rate:	20-60-lb. per surface area per height of plant growth

Citrine is a clean, dry granular algaecide that sinks rapidly in water to the bottom and when scattered evenly over the affected area is especially effective against Chara, Nitella, and other bottom-growing algae.

Citrine Plus

Active Ingredient:	Copper
Manufacturer:	SePRO
Unit Purchase:	1-gal.; 2.5-gal.
Units per Case:	4 x 1-gal. (42 CS); 2 x 2.5-gal. (36 CS)
Rate:	0.6 to 3.0-gal. per acre foot of water

Citrine Plus is a liquid formulation that provides effective control of a broad range of algae. The triethanolamine in Citrine Plus prevents precipitation of copper with carbonates or bicarbonates in water.

AQUATICS

Citrine Ultra

Active Ingredient: Copper
Manufacturer: SePRO
Unit Purchase: 2.5-gal.
Units per Case: 2 x 2.5-gal.(36 CS)
Rate: 0.6 to 3.0-gal. per acre foot

Citrine Ultra is algaecide with an emulsified surfactant, which controls existing algae and some underwater rooted plants.

Diquat

Active Ingredient: Diquat dibromide
Manufacturer: Nufarm
Unit Purchase:
Units per Case: 4/1-gal. (48); 2/2.5-gal. (36); 250 MB
Rate: Check label.

Non-selective herbicide used for controlling aquatic weeds and desiccating green plant material. Provide broad-spectrum control of floating, submerged, and marginal weeds.

Harpoon Granular

Active Ingredient: Copper - Ethylenediamine Complex
Manufacturer: SePRO
Unit Purchase:
Units per Case: 40-lb. (50 BG)
Rate: .50-1.0-ppm. Copper /40-80-lbs. per foot of plant growth / Check label

Chelated copper formulation that effectively control Hydrilla, Egria, Niads, Coontail Elodea, and Water lettuce and other species having a sensitivity to copper absorption.

Hydrothol 191 Granular

Active Ingredient: Endothall
Manufacturer: UPI
Unit Purchase: 20-lb.
Units per Case: 2 x 20-lb. (24 CS)
Rate: Various; check label.

Highly effective contact algaecide and aquatic herbicide for use in irrigation and drainage canals, lakes, and ponds.

Navigate

Active Ingredient: 2,4-D
Manufacturer: SePRO
Unit Purchase: 50-lb. bag (40 BG)
Units per Case: Each
Rate: Check label.

Effective on many rooted pond weeds. Contains 2,4-D formulated on heat-treated clay granules that resist decomposition in water. Navigate sinks rapidly to lake or pond bottoms and releases weed killing compound in the critical root zone area

Phycomycin SCP

Active Ingredient: Sodium Carbonate Peroxyhydrate
Manufacturer: SePRO
Unit Purchase: 50-lb.
Units per Case: 50-lb. (40 BG)
Rate: 3 to 100-lb. per acre foot

85% active concentrated form of sodium carbonate peroxyhydrate, used to control blue-green algae.

AQUATICS

Reward

Active Ingredient: Diquat
Manufacturer: SePRO
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal.
Rate: See label for details.

Reward Landscape and Aquatic Herbicide is a nonvolatile herbicidal chemical for use as a general herbicide to control weeds in commercial greenhouses and nurseries; ornamental seed crops (flowers, bulbs, etc. - except in the state of California); landscape, industrial, recreational, commercial, residential, and public areas; turf renovation (all turf areas except commercial sod farms); dormant established turfgrass (bermudagrass, zoysiagrass - nonfood or feed crop); and aquatic areas.

Roundup QuikPRO SC

Active Ingredient: Indaziflam, Diquat, Glyphosate
Manufacturer: Bayer CropScience LP
Unit Purchase: 2.5-gal.; 144-oz.
Units per Case: 2 x 2.5-gal.; 4 x 144-oz.
Rate: 16-oz./1-gal. water

Non-selective control of emerged and pre-emerged grasses and broadleaf weeds in non-crop areas including paths, parking lots, curbs, sidewalks, driveways, around buildings, gravel areas, loading ramps, educational facilities, storage yards, vacant lots, fencerows, parks, hardscapes (including crack and crevice), municipal and mulched areas, landscape ornamental beds, and government sites.

Sonar AS

Active Ingredient: Fluridone
Manufacturer: SePRO
Unit Purchase: 1 pt.; 1-qt.; 1-gal.
Units per Case: 6 x 1 pt.; 6 x 1-qt.; 4 x 1-gal. (24 CS)
Rate: 0.5 to 2-qts. per acre

Broad-spectrum aquatic herbicide. Excellent control of duck weed and pond weed. Very effective and safe to use.

Sonar Genesis

Active Ingredient: Fluridone
Manufacturer: SePRO
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal.
Rate: See label for details.

Sonar Genesis is a selective systemic aquatic herbicide for management of freshwater aquatic vegetation in ponds, lakes, reservoirs and drainage and irrigation canals, including dry or de-watered areas of these sites. It is designed to be an easier-to-use formulation that lasts longer in the water and provides a faster knockdown on many floating and emergent weed species. This convenient 1/2-lb. formulation contains 6.3% active Fluridone and provides a lower-cost-per-gallon product, improving operations for applicators.

Sonar One

Active Ingredient: Fluridone
Manufacturer: SePRO
Unit Purchase: 20-lb.
Units per Case:
Rate: See label for details.

Sonar One's pellet formulation (i.e. fluridone) delivers an effective dose to targeted aquatic plants within the first day, while providing a longer-lasting residual than Sonar A.S. The easy-to-apply pellet formulation eliminates overspray onto sensitive shoreline vegetation, making it ideal for landscapes with highly maintained vegetation, including golf courses.

Sonar PR

Active Ingredient: Fluridone
Manufacturer: SePRO
Unit Purchase: 1-gal.
Units per Case: 4 x 5-lb.
Rate: Check label.

An herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, potable water sources, drainage canals, irrigation canals, and rivers.

AQUATICS

Sonar Q (quick release)

Active Ingredient: Fluridone
Manufacturer: SePRO
Unit Purchase: 8-lb. pail
Units per Case: 4 x 8-lb. (24 PL)
Rate: Check label.

Broad-spectrum aquatic herbicide. Excellent control of duck weed and pond weed. Very effective and safe to use.

Sonar RTU

Active Ingredient: Fluridone
Manufacturer: SePRO
Unit Purchase: 1-qt.
Units per Case: 4 x 1-qt. (48 CS)
Rate: Check label.

Broad-spectrum aquatic herbicide. Excellent control of duck weed and pond weed. Very effective and safe to use.

Weedtrine-D

Active Ingredient: 2, 4-D
Manufacturer: SePRO
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (42 CS)
Rate: Use 5-gal. in 100-gal. of water and spray to wet.

A liquid aquatic herbicide that effectively controls a broad range of underwater, floating, and emergent aquatic weeds. Kills quickly on contact. Ideal for small-area treatments.

LAKE & POND DYES

Aquashade

Active Ingredient: Dye
Manufacturer: SePRO
Unit Purchase: 1-gal.; 2.5-gal.
Units per Case: 4 x 1-gal. (42 CS); 2 x 2.5-gal. (36 CS)
Rate: 1 to 2-qts. per acre foot

Inhibits growth of algae and submerged aquatic weeds in non-flowing lakes, ponds, and fountains. A water colorant dye that blocks sunlight. Safe for the environment.

Aquashadow WSP Black Pak

Active Ingredient: Dye
Manufacturer: SePRO
Unit Purchase: 6 x 4.3-oz. pouch pail
Units per Case: 4 pails per case
Rate: 1 pouch per acre-foot

Concentrated black dye formulation packaged in convenient pouch. Water-soluble pouch can be used in lakes, ponds, decorative features, and other impounded bodies of water with limited outflow.

Aquashadow WSP Blue Pak

Active Ingredient: Dye
Manufacturer: SePRO
Unit Purchase: 6 x 4.3-oz. pouch pail
Units per Case: 4 pails per case
Rate: 1 pouch per acre-foot

Concentrated blue dye formulation packaged in convenient pouch. Water-soluble pouch can be used in lakes, ponds, decorative features, and other impounded bodies of water with limited outflow.



AQUATICS

Aquatic Blue

Active Ingredient: Dye
Manufacturer: SePRO
Unit Purchase: 1-gal.
Units per Case: 4 x 1-gal. (42 CS)
Rate: 1-gal. per acre, 4 ft. deep

Water-soluble dye designed for use in lakes, ponds, decorative water features, and other impounded bodies of water.

Jet Black EZ SoluPak

Active Ingredient: Dye
Manufacturer: Aquatrols
Units per Case: 24/5.25-oz. (60 CS)
Rate: 1 pak/acre foot or 325,000-gal.

Proprietary blend of environmentally friendly, non-toxic dyes, that reduce sunlight penetration and imparts a natural black, reflective color.

SureGuard EZ

Active Ingredient: Flumioxazin
Manufacturer: NuFarm
Unit Purchase: 1 pt.
Units per Case: 8 x 1 pt. (144-qt.)
Rate: 8.0 to 12.0-fl. oz. / acre

Pre-emergent and post-emergent weed control in a convenient formulation for aquatics, bareground, commercial and residential landscapes, tree wells, gravel areas, driveways, and other similar sites.

True Blue EZ Solution Pak

Active Ingredient: Dye
Manufacturer: Aquatrols
Units per Case: 24/5.25-oz. (60 CS)
Rate: 1 pak/acre foot or 325,000-gal.

Proprietary blend of environmentally friendly, non-toxic dyes, that reduce sunlight penetration and imparts a natural blue water color.

MISCELLANEOUS

Aluminum Sulfate

Active Ingredient: Aluminum Sulfate
Manufacturer: Various
Unit Purchase: 50-lb. (42 BG)
Units per Case: Each
Rate: 100-160-lb. per acre-foot

An aid to help clear turbid or muddy water, caused by suspended silt or clay particles.

Bentonite Clay

Active Ingredient: Bentonite Clay
Manufacturer: Bentonite Corp.
Unit Purchase: 50-lb. (48 BG)
Units per Case: Each
Rate: 2-4-lb. per sq. ft.

Stops seepage. Bentonite is a form of clay that swells 12 to 15 times its dry size when wetted. It fills tiny voids through which water may seep. It may be used on dry surfaces to be flooded later or on existing ponds by scattering it over the surface. Not recommended for use over limestone bedrock.

Cide-Kick II

Active Ingredient: Nonionic Surfactant
Manufacturer: Various
Unit Purchase: 1-qt. or 1-gal.
Units per Case: 12 x 1-qt. (56 CS) or 4 x 1 (36 CS)
Rate: 0.5 to 5.0 tbsps per-gal. of spray solution

A non-ionic wetting agent and activator, especially for aquatics.

The image features a close-up of grass blades covered in a thick layer of white frost. The background is a soft, out-of-focus blue-grey. In the center, a green diamond-shaped graphic with a white double border contains the text "ICE MELTER PRODUCTS" in orange, bold, sans-serif capital letters. A solid orange horizontal bar runs across the bottom of the image, above a green gradient footer.

**ICE MELTER
PRODUCTS**

ICE MELTER PRODUCTS

ICE MELTER PRODUCTS

Product/Use Grade	Unit Size	Source/Composition
Clean Urea	50-lb.	Urea (Carbimide)
Dowflake	50-lb.	Calcium Chloride (Flakes)
Eco Melt	50-lb.	Sodium, Calcium, Magnesium Chlorides
Ice No Mor	50-lb.	Sodium/Calcium/Magnesium with AMC
Halite/Ice-a-way	50-lb.	Sodium Chloride
Hammer	50-lb.	Sodium Chloride with Propel & Fusion
Lightning Fast	50-lb.	Sodium/Calcium/Magnesium with AMC
Peladow	50-lb.	Calcium Chloride (Pellets)
Power Thaw	50-lb.	Sodium/Calcium/Magnesium with AMC
Select Liquid	2.5-gal./5-gal./55-gal.	Potassium Acetate
Thaw Master	50-lb.	Sodium/Calcium/Magnesium with AMC
Titan	50-lb.	Sodium Chloride with Propel
Triple Melt	50-lb.	Sodium, Calcium, Magnesium Chloride
Industrial Strength	50-lb.	Calcium/Magnesium/Sodium
Greenscapes	50-lb.	Sodium/Magnesium

ICE MELTER PRODUCTS

PRACTICAL MELTING TEMPERATURES

Product	Temperature	Use Rates
Urea	+ 15° F	1/2 cup per sq. yard
Sodium Chloride (Rock Salt/Halite)	+ 10° F	1/2 cup per sq. yard
Titan	+ 10° F	1/2 cup per sq. yard
Eco Melt	- 5° F	1/2 cup per sq. yard
Hammer	- 5° F	1/2 cup per sq. yard
Ice No Mor	- 5° F	1/4 cup per sq. yard
Power Thaw	- 5° F	1/4 cup per sq. yard
Lightening Fast	- 12° F	1/4 cup per sq. yard
Triple Melt	- 15° F	1/4-1/2 cup per sq. yard
Thaw Master	- 20° F	1/4 cup per sq. yard
Magnesium Chloride	+ 22° F	1/4 cup per sq. yard
Calcium Chloride (Pellet or Flake)	+ 25° F	1/4 cup per sq. yard

CONVERSION CHARTS

ENGLISH TO METRIC

1 gallon	=	3.785 liters
1 fluid ounce	=	29.57 milliliters
1 pound	=	453.6 grams
1 pound	=	0.454 kilograms
1 ounce (wt.)	=	28.35 grams
1 foot	=	0.305 meters
1 acre (43,560 sq. ft.)	=	0.405 hectares (4,052 sq. meters)
1 acre foot (43,560 sq.ft.)	=	0.123 hectare meters

VOLUME & WEIGHT RELATIONSHIPS TO WATER

1 gallon weight	=	8.345 pounds
1 liter weight	=	1,000 grams
1 metric ton	=	1,000 liters = 1m ³ = 264 gallons
1 cubic foot	=	7.48 gallons
1 acre foot	=	325,829 gallons
1 acre foot	=	1,234 metric tons
1 hectare-meter	=	10,000,000 liters
1 hectare-meter	=	10,000 metric tons

METRIC TO ENGLISH

1 liter	=	0.264 gallons
1 milliliter	=	0.034 fluid ounce
1 gram	=	0.0022 pounds
1 kilogram	=	2.20 pounds
1 gram	=	0.035 ounce (wt.)
1 meter	=	3.28 feet
1 hectare	=	2.47 acres
1 hectare	=	8.1 acre feet meter

APPLICATION RATE CONVERSIONS

1 ounce per sq. ft.	=	2722.5 pounds per acre
1 ounce per sq. yd.	=	302.5 pounds per acre
1 ounce per 100 sq. ft.	=	27.2 pounds per acre
1 pound per 100 sq. ft.	=	435.6 pounds per acre
1 pound per 1000 sq. ft.	=	43.6 pounds per acre
1 gallon per acre	=	1/3 ounce per 1000 sq. ft.
5 gallons per acre	=	1 pint per 1000 sq. ft.
100 gallons per acre	=	2.5 gallons per 1000 sq. ft. 1 quart per 100 sq. ft.
100 pounds per acre	=	2.5 pounds per 1000 sq. ft.

PARTS PER MILLION (PPM) CALCULATIONS

1 PPM	=	1 milligram/liter
1 PPM	=	1 milligram/kilogram
1 PPM	=	1 gram/metric ton
1 PPM	=	2.72 pounds/acre foot
1 PPM	=	3.78 milligrams/gallon
1 PPM	=	3.78 milligrams/gallon
1 PPM	=	8.34 pound/million gallons

CONVERSION CHARTS

SQUARE MEASURES

1 square foot	=	144 square inches
1 square yard	=	9 square feet
1 square rod	=	272.25 square feet
	=	30.25 square yards
1 acre	=	43,560 square feet
	=	4840 square yards
	=	160 square rods
1 square mile	=	640 acres

LIQUID MEASURES

1 tablespoon	=	3 teaspoons
1 fluid ounce	=	2 tablespoons
1 cup	=	8 fluid ounces
1 pint	=	2 cups
	=	16 fluid ounces
1 quart	=	2 pints
	=	32 fluid ounces
1 gallon	=	4 quarts 8 pints 128 fluid ounces

WEIGHT MEASURES

1 pound	=	16 ounces
1 hundred weight	=	100 pounds
1 ton	=	2000 pounds

CUBIC MEASURES

1 cubic foot	=	1728 cubic inches
	=	7.48 gallons
1 cubic yard	=	27 cubic feet
1 cubic foot of water	=	62.5 pounds

DRY MATERIALS

Rate/Acre	Rate/1000 sq. ft.	Rate/100 sq. ft.
1-lb.	2 1/2 tsps.	1/4 tsp.
3-lb.	2 1/4 tbsps.	3/4 tsp.
4-lb.	3 tbsps.	1 tsp.
5-lb.	4 tbsps.	1 1/4 tsps.
10-lb.	1/2 cup	2 tsps.
100-lb.	2 1/4-lb.	1/4-lb.
200-lb.	4 1/2-lb.	1/2-lb.
300-lb.	6 3/4-lb.	3/4-lb.
400-lb.	9-lb.	1-lb.
500-lb.	11 1/4-lb.	1 1/4-lb.

LIQUID MATERIALS

Rate/Acre	Rate/1000 sq. ft.	Rate/100 sq. ft.
1 pt.	3/4 tsp.	1/4 tsp.
1-qt.	1 1/2 tbsps.	1/2 tsp.
1 gallon	6 tbsps.	2 tsps.
25-lb.	4 1/2 pints	1 cup
50 gallons	4 1/2-qts.	1 pint
100 gallons	9 quarts	1 quart
200 gallons	4 1/2 quarts	2 quarts
300 gallons	6 3/4 gallons	3 quarts
400 gallons	9 gallons	1 gallon
500 gallons	11 1/4 gallons	1 1/4 gallons

FINDING THE SURFACE AREA OF A POND

Circular	=	Surface Acres	=	3.14 x Radius Squared 43560
Rectangular	=	Surface Acres	=	Length x Width 43560

IMPORTANT NOTICE

The product information contained herein was correct as of publication date, though is subject to change without notice. The information contained in this handbook is provided as a general guide only. NOT ALL PRODUCTS AND USES REFERENCED IN THIS GUIDE ARE REGISTERED FOR USE IN ALL STATES. PLEASE CONTACT THE MANUFACTURER REPRESENTATIVE TO CONFIRM REGISTRATION IN THE STATE INTENDED FOR USE. Specific product information and directions for use should be obtained by careful study of the manufacturer's label. It is impossible to eliminate all risks inherently associated with use of the products contained in this handbook. Crop or personal injury, ineffectiveness, or other unintended consequences may occur due to factors such as weather conditions, presence of other materials, or use or application of the product contrary to label instructions, all of which are beyond the control of GROWMARK, Inc. The user shall assume all such risks.

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