

D & K PRODUCTS

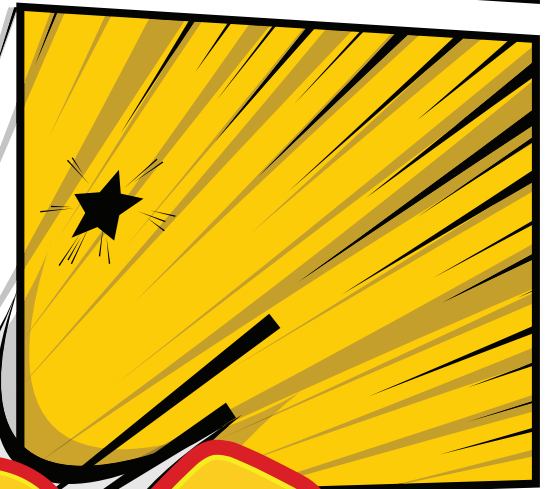
DES MOINES • BETTENDORF • CEDAR RAPIDS • OMAHA • CAMP POINT

CATALOG

VOL. 43



BECAUSE TURF MATTERS



2024!



GOLF COURSE



SPORTS TURF • LAWN CARE

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**WE DELIVER TO IOWA,
NEBRASKA, ILLINOIS &
SOUTH DAKOTA.**

**WE MAKE EVERY EFFORT TO
PROVIDE COMPLETE, ON-TIME
DELIVERIES TO OUR
CUSTOMERS AT NO ADDITIONAL
CHARGE. WE DO NOT CHARGE
FOR DELIVERY WHEN WE
DELIVER ON OUR TRUCKS.**

**ALL UPS/FEDEX SHIPMENT ARE
SUBJECT TO FREIGHT CHARGES.
YOU DO NOT HAVE TO HELP US
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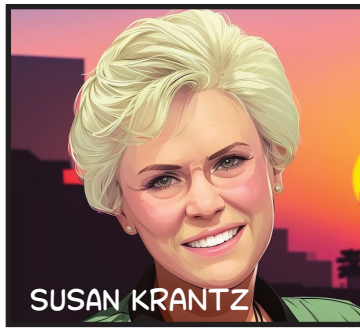


SOMEWHERE IN A CONVENIENTLY LOCATED WAREHOUSE...



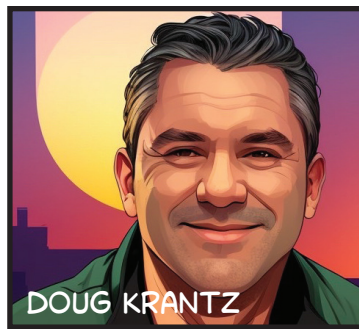
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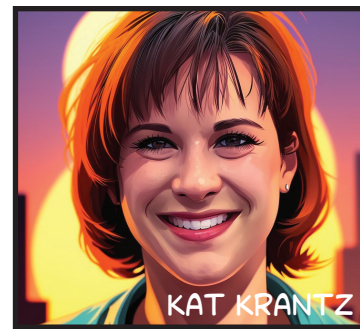
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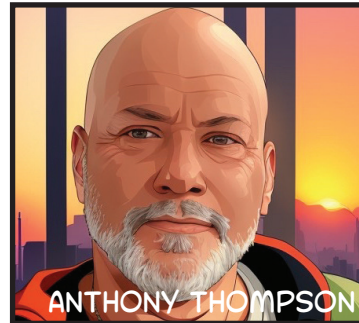
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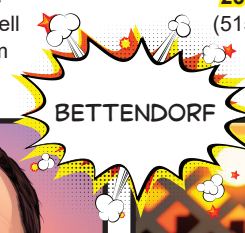
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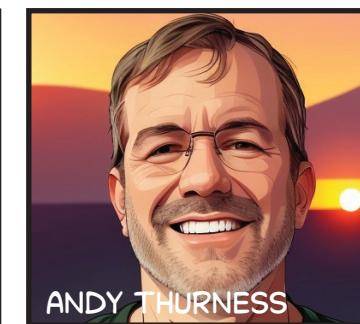
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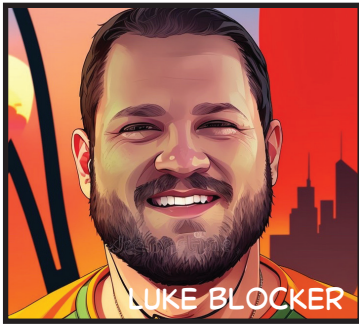
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...THESE TURF HEROES AWAIT YOUR CALL!



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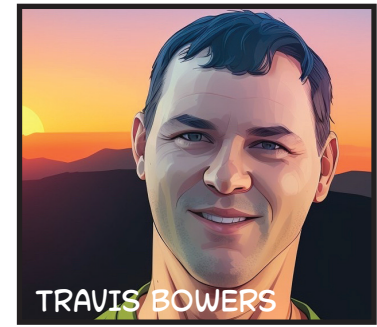
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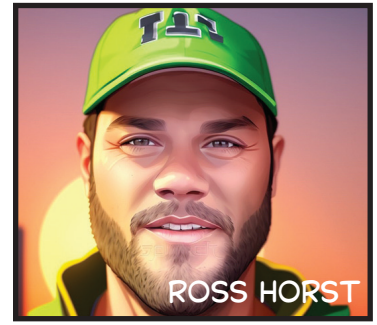
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FERTS



Single Application Fertilizer



COMBINATION INSECT AND PRE-EMERGENT WEED CONTROL

Simpl1fy PRO Fertilizer containing Acelepryn® and Dimension® combines two premier active ingredients in one great product. Dimension's extended application window provides season-long control of crabgrass and suppresses other listed annual grasses and broadleaf weeds. Acelepryn, recognized by the EPA as a reduced risk pesticide, controls both surface and sub-surface feeding insects for season-long grub control. For maximum effectiveness, apply at the higher listed rates for preventative and curative control.

INSECTS CONTROLLED

White grubs, Annual Bluegrass Weevil, Billbugs, European Crane Fly, Armyworms, Cutworms and other listed pests

WEEDS & GRASSES CONTROLLED

Crabgrass, Barnyardgrass, Poa Annuua, Goosegrass, Foxtail, Spurge, Carpetweed, Woodsorrel and other listed weeds and grasses



MODERN TURF MANAGEMENT

Labor shortages have impacted all businesses in the green industry. Utilizing a program that encompasses proven, long-lasting insecticides & herbicides, along with EPEC for extending feeding, allows businesses to better satisfy current customers' needs without sacrificing results.

EC Grow's Labor Efficient Programs (LEP) offer labor savings benefit by reducing the number of fertilizer applications needed to maintain healthy turf. By changing a traditional 5 or 6 application fertility program to three or two applications, the time you save can be directed on inspections, spot sprays, soil amendments, aeration, or other revenue-generating services that you may not have had time to perform.

KEY BENEFITS

- Season-long crabgrass and grub control
- Low environmental impact
- Proven Chemistries
- Decreased risk to non-target organisms
- Available with Enhanced Efficiency Fertilizer
- Improved efficacy*

*compared to competitor's products

USE SITES

- Golf courses • Athletic fields
- Office complexes • Parks • Schools
- Commercial lawns • Other landscaped areas



FEWER APPLICATIONS

Specially formulated Labor Efficient Programs (LEP) can reduce the number of required fertility applications by half.



REDUCED LABOR

With fewer applications, LEP maximizes your staff's time and allows you to do more with less.



LOWER PRODUCT COSTS

Labor Efficient Programs = Decreased transportation costs + less warehouse space + less waste



FERTILIZER PRODUCTS

1.800.308.0322 • 4970 Kane Road • Eau Claire, WI 54702

Always refer to the actual product label for complete instructions and Directions of Use. Acelepryn is a registered trademark of a Syngenta Group Company. Dimension is a registered trademark of Corteva Agriscience, LLC.

www.ecgrowproturf.com

***PLEASE CALL FOR CURRENT PRICING

PRODUCT	SGN	PESTICIDE
DIMENSION PREEMERGENT AND FERTILIZER COMBINATIONS		
IGNITION 12-0-4 40% EPEC 60 DAY	220	.125 DIMENSION
IGNITION 15-0-6 35% EPEC 60 DAY	220	.10 DIMENSION
IGNITION 17-0-0 25% EPEC 60 DAY	220	.15 DIMENSION
IGNITION 17-0-4 10% AMS, 30% EPEC 60 DAY	220	.17 DIMENSION
IGNITION 18-0-6 50% FORTIFY	220	.10 DIMENSION
IGNITION 18-0-18 50% EPEC 90 DAY	150	.125 DIMENSION
IGNITION 19-0-6 40% EPEC 60 DAY	220	.125 DIMENSION
IGNITION 20-0-5 100% EXN	220	.125 DIMENSION
IGNITION 24-0-10 40% EPEC 60 DAY	220	.15 DIMENSION
IGNITION 35-0-7 95% EPEC 180 DAY	220	.10 DIMENSION
BARRICADE PREEMERGENT AND FERTILIZER COMBINATIONS		
IGNITION 13-0-2 20% EPEC 60 DAY	220	.38 BARRICADE
IGNITION 18-0-4 40% EPEC 60 DAY	220	.43 BARRICADE
IGNITION 18-0-5 5% EPEC 60 DAY	220	.38 BARRICADE
SPECIALTY PREEMERGENT AND FERTILIZER COMBINATIONS		
ANDERSONS 10-3-10 65% MUTECH	100	.164 DIMENSION
ANDERSONS 21-22-4 STARTER	125	MESOTRIONE
CAD - ACELEPRYN + DIMENSION PREEMERGENT AND FERTILIZER COMBINATIONS		
IGNITION 19-0-19 90% EPEC 4 MONTH	150	.058 ACELEPRYN / .15 DIMENSION
IGNITION 19-0-19 90% EPEC 4 MONTH	220	.058 ACELEPRYN / .15 DIMENSION
IGNITION 19-0-4 50% EPEC 2 MONTH	220	.058 ACELEPRYN / .15 DIMENSION
IGNITION 20-0-10 90% EPEC 4 MONTH	150	.058 ACELEPRYN / .15 DIMENSION
IGNITION 26-0-5 90% EPEC 3 MONTH	220	.058 ACELEPRYN / .15 DIMENSION
IGNITION 32-0-5 81% EPEC 4 MONTH	220	.058 ACELEPRYN / .15 DIMENSION
IGNITION 32-0-5 90% EPEC 6 MONTH	220	.058 ACELEPRYN / .15 DIMENSION
LEP LABOR EFFICIENT PROGRAM FERTILIZERS		
IGNITION 30-0-6 80% EPEC 3 MONTH	220	.38 BARRICADE
IGNITION 29-0-5 80% EPEC 3 MONTH	220	.15 DIMENSION
IGNITION 35-0-7 95% EPEC 6 MONTH	220	.10 DIMENSION
IGNITION 26-0-10 80% EPEC 3 MONTH	220	
IGNITION 32-0-8 95% EPEC 6 MONTH	220	.067 ACELEPRYN
IGNITION 26-0-4 80% EPEC 3 MONTH	220	.20 MERIT
ACELEPRYN FERTILIZER COMBINATIONS		
IGNITION 0-0-7	220	.067 ACELEPRYN
IGNITION 15-0-5 50% EXN	220	.067 ACELEPRYN
IGNITION 20-0-8 50% EPEC 60 DAY	220	.067 ACELEPRYN
MERIT FERTILIZER COMBINATIONS		
IGNITION 15-0-0 20% EPEC 60 DAY	220	.20 MERIT
IGNITION 20-0-10 50% EPEC 60 DAY	220	.20 MERIT
IGNITION 20-0-3 40% EPEC 60 DAY	220	.20 MERIT
IGNITION 7-0-0	220	.20 MERIT
BROADLEAF AND FERTILIZER COMBINATIONS		
ANDERSONS 16-0-8	220	ESCALADE
IGNITION 20-0-8	220	Q-3
BLENDED STRAIGHT FERTILIZER BLENDS - 220 SGN		
IGNITION 6-24-24 DOT BLEND		
IGNITION 12-18-5 BIOSOLIDS STARTER		PROSPECT ROOT ENHANCER
IGNITION 13-13-13 AMS, MICROS, 1% MG		
IGNITION 19-19-19 ALL MINERAL		
IGNITION 20-0-20 80% EPEC 90 DAY, 5% AMS, 2% FE		
IGNITION 21-0-21 75% EPEC 60 DAY, 2% FE		
IGNITION 22-0-3 40% EPEC 60 DAY		
IGNITION 24-5-10 50% EPEC 60 DAY, 17% AMS, 3% FE		PROSPECT ROOT ENHANCER
IGNITION 29-0-3 50% EPEC 60 DAY		PROPECT ROOT ENHANCER
IGNITION 33-0-5 100% RXN, 2% FE		
IGNITION 34-0-9 95% EPEC 120 DAY		PROSPECT ROOT ENHANCER
IGNITION 35-0-10 95% SIFI EPEC 180 DAY		
IGNITION 40-0-6 25% EPEC 60 DAY		PROSPECT ROOT ENHANCER

IGNITION/THE ANDERSONS FERTILIZERS!

***PLEASE CALL FOR CURRENT PRICING

PRODUCT	SGN	ADDITIVES
BLENDED STRAIGHT FERTILIZER BLENDS - 150 SGN / SOP		
ANDERSONS 18-24-5 CONTEC DGSTARTER	150 SGN	
IGNITION 29-0-10 35% EPEC 60 DAY MINI	150 SGN	
IGNITION 20-0-20 35% EPEC 90 DAY	150 SGN	PROSPECT ROOT ENHANCER
BLENDED ORGANIC AND SYNTHETIC FERTILIZERS		
IGNITION 13-0-5 BIOSOLIDS	220 SGN	.28 BARRICADE, 25% EPEC
IGNITION 18-0-15 BIOSOLIDS	220 SGN	AMMONIUM SULFATE, SOP, MN
IGNITION 18-0-18 IGNITE EPEC, BIOSOLIDS	220 SGN	AMMONIUM SULFATE
IGNITION 20-1-4 BIOSOLIDS	220 SGN	
BLENDED FERTILIZERS WITH HUMIC ACID		
ANDERSONS 9-12-6 WITH SMARTPHOS	240 SGN	37% HCU, 36% BLACK GYPSUM
ANDERSONS 22-0-4 WITH HCU	240 SGN	50% HCU, 43% BLACK GYPSUM
ANDERSONS 20-0-0 HCAS	240 SGN	23% SULFUR, 2% HUMIC ACID
ANDERSONS 20-0-0 HCAS	SOLUBLE	23% SULFUR, 2% HUMIC ACID
ANDERSONS 44-0-0 HCU	215 SGN	
ANDERSONS BLACK GYPSUM	75 SGN	21% HUMIC ACID
ANDERSONS BLACK GYPSUM	240 SGN	21% HUMIC ACID
ANDERSONS GENESIS RX 3-4-3 WITH ZEOLITE	75 SGN	10.8% HUMIC DG, 50% MUTECH, 50% ZEOLITE
ANDERSONS GENESIS RX 5-7-5	75 SGN	21.5% HUMIC DG, 49% MUTECH
ANDERSONS HUMIC DG	75 SGN	70% HUMIC ACID
ANDERSONS HUMIC DG	240 SGN	70% HUMIC ACID

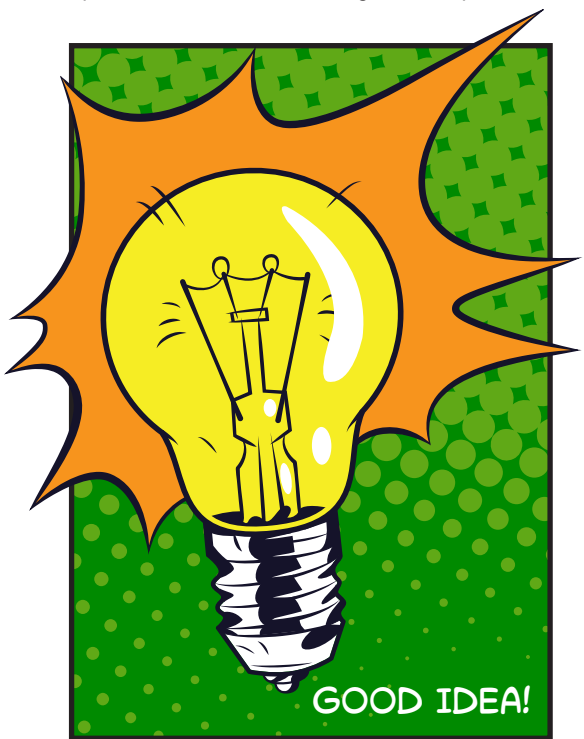
CONTEC DG BY THE ANDERSONS!



Contec DG combines premium turf nutrients and our patented Dispersing Granule Technology into a homogenous granule designed to optimize granular applied turf nutrition.

Enhanced Nutrient Distribution • Patented Dispersing Granule Technology

Upon contact with water, each granule disperses into thousands of micro particles that quickly move through the turf canopy into the root zone.



***PLEASE CALL FOR CURRENT PRICING

GREENS GRADE SGN 75 CONTEC DG Products		40 LB. BAG
0-0-12 Mag-tec	24% Mg	K-Mag
0-0-13 Kal-tec	9.2% Ca L-amino acids	K-Mag/SOP
12-24-8 Starter	50% MUTEch	SOP
13-0-26	100% MUTEch	SOP
15-0-15	50% MUTEch	SOP
19-0-15	100% MUTEch & Micros	K-Mag/SOP
GREENS GRADE SGN 75 GENERATION 3 CONTEC DG Products		40 LB. BAG
6-0-12 Mn, Mg	Mn & Mg	SOP
12-3-12 Amm. Sulfate	L-amino acids	SOP
17-0-17	50% MUTEch	SOP
18-9-18	60% MUTEch	SOP
BLENDED GREENS FERTILIZERS 100 SGN		50 LB. BAG
13-2-13 Amm. Sulfate		
14-28-10 Greens Starter	50% MUTEch	
15-0-29	100% MUTEch	
18-6-15	65% MUTEch	
22-0-22	65% MUTEch	
BLENDED TEES AND FERTILIZERS 125 SGN		50 LB. BAG
AGC 16-4-8/Amm. Sulfate		
AGC 25-5-15/Nutralene	50% MUTEch	

*****PLEASE CALL FOR CURRENT PRICING**

BLACK GYPSUM DG

Available in Greens Grade and Regular Grade

Black Gypsum DG is a unique bio-amendment that combines natural dihydrate gypsum and humate into a homogenous dispersing granule (DG). The DG microparticles enhance nutrient availability with direct delivery of key nutrients to the plant.



Features and Benefits of Black Gypsum DG:

- Dual carbon sources are unique to DG humic products
- Contains a complete spectrum of humic substances, as compared to liquid humic acids
- Soluble calcium sulfate dihydrate (12% calcium, 8.9% sulfur)
- Combines two naturally occurring products (gypsum and humate), enhancing the plant's ability to take in essential nutrients and reducing toxic elements in the soil
- Blends with all fertilizers, including urea
- Improves the ability to handle (what are typically) hard to handle soil amendments (gypsum and humate)

RATE: 130-520 lbs./acre 50 lb. bags

FOLTEC SG

24-0-8 • 8-24-8 • 8-0-24 • 16-0-16 • Minors

Foltec® SG is an innovative foliar nutrient technology from The Andersons. Designed to be different, Foltec SG will change the way Superintendents and Turfgrass Managers think about complex foliar nutrition programs. Unlike industry standard liquid fertilizers consisting of numerous formulations and packaged in cumbersome plastic jugs, Foltec SG is a proprietary combination of dry soluble granules (SG) that quickly solubilize in the spray tank. This combination of soluble granules creates a complete nutrition product that reduces the need for a complex tank mix using a wide variety of products. Each Foltec SG product contains a specific N-P-K ratio along with essential micronutrients, UltraMate SG and sea plant extract. Foltec SG is formulated in four of the most widely used agronomic N-P-K ratios. High N: **24-0-8**, High P: **8-24-8**, High K: **8-0-24** and the new **16-0-16**. These formulas can be easily combined to create your preferred N-P-K ratio. **RATE:** 13.6 lbs./acre 3 x 13.6 lbs. per case



HUMIC DG

Available in Greens Grade and Regular Grade

Humic DG is a dispersing granule humic acid product, utilizing The Andersons patented Dispersing Granule (DG) Technology. Humic DG contains 70% humic acid and 10% humic acid precursor. DG Technology creates a dust free, spherical, ultra-dry particle that rapidly disperses into thousands of microparticles upon contact with moisture. Humic DG's increased surface area, when compared to screened humate, creates greater availability to the plant. Humic DG performs in a wide range of conditions and soil types, independent of application method. **RATE:** 40-200 lbs./acre 40 lb. bags



SMARTPHOS DG 4-22-0

Available in Greens Grade

Season-long feeding with high efficiency, recycled phosphorous

- Contains "Struvite" a unique combination of recycled phosphorous and magnesium
- Season-long phosphorous feeding
- Safe for use on seedlings and established plants and turf
- Use SmartPhos DG at half the rate of traditional starter fertilizers and get the same results

RATE : 2.3-7 lbs./1000 sq. ft. 40 lb. bag



ULTRAMATE SG

UltraMate SG is a highly-concentrated, sulfonated-soluble granule (SG) formulation of sulfonated potassium humate. UltraMate SG granules are uniform, easy to handle and easy to mix. These granules dissolve rapidly into solutions with pH ranging from 2-12 to provide maximum flexibility for tank mixes or single application. UltraMate SG contains a combination of fulvic and humic acids. Allows plants to utilize applied N, P and micro-nutrients more efficiently, reducing leaching and improving soil structure.

Features and Benefits of UltraMate SG:

- Highly-concentrated soluble granule containing 70% humic acid
- 1.6 lbs. of UltraMate SG is equivalent to 1 gal. of 12% liquid humic acid
- Dissolves rapidly in fertilizer solutions and water-based tank mixes ranging from pH 2-12
- Contains a combination of fulvic and humic acids, along with 14% potassium and 6% sulfur
- Can be applied through a wide range of application methods, including sprayers, drip irrigation, fertigation and in furrow
- Easy to handle and cost-effective; provides up to 80% savings in freight and storage versus conventional liquid humic acid products
- One ton of UltraMate SG is roughly equivalent to six 250 gallon totes of 12% liquid humic acid

RATE: 8-54 oz./acre 2 x 6 lb. case or 30 lb. bag



CARBON COAT BY THE ANDERSONS!

New CarbonCoat Technology utilizes a patented manufacturing process to bond fertilizer granules with a potassium humate coating. These clean, spherical, free-flowing granules deliver nitrogen and humic acid simultaneously.

*****PLEASE CALL FOR CURRENT PRICING**

HUMIC COATED UREA 44-0-0, 215 SGN

HCU (Humic Coated Urea) granules are an innovative nitrogen source featuring urea-humate fusion. This proprietary technology produces a cost effective 44-0-0 nitrogen granule that is bonded with potassium humate. Clean, spherical, free flowing granules are 100% soluble for use in both liquid and dry applications. HCU granules can be applied to all types of cool and warm season turf, landscape and nursery ornamentals, and specialty crops. HCU granules offer a sensible, sprayable/spreadable, and sustainable approach to applying nitrogen with important soil and plant health benefits that traditional nitrogen sources cannot provide. *50 lb. bag*



HUMIC COATED AMMONIUM SULFATE 20-0-0, SPRAYABLE OR SPREADABLE

Improving on an industry standard, Humic Coated Ammonium Sulfate (HCAS) combines ammonium sulfate granules and humic acid to create an ideal nitrogen source for the cooler months of the growing season, when green-up and growth are crucial. *Spreadable - 50 lb. bag, Sprayable - 25 lb bag*



EARTHWORKS LIQUID ORGANICS!

Nutriculture spoon-feeding fertilizers provide readily available nutrients with immediate and controllable results. When an application is made, results will be only a matter of hours. Over 95% of nutrients in Nutriculture are absorbed and will be utilized over a 5-10 day period. No nutrients are tied up in the soil, and there is no excess to create environmental problems. Spoon-feeding will provide a fast green-up without creating excessive top growth or uncontrolled "flushing." There is no disruption of play. No unsightly granules to get picked up by mowers or tracked on shoes and clothing. It encourages strong, healthy root and blade development, which deters fungus and insect invasion. Turf will stand up better to stress and recover faster from traffic.

Nutriculture 28-8-18 Bent Special \$ 50.00 bag

This all water-soluble fertilizer is specially-formulated for use on golf courses, athletic fields, and other areas where turf is intensely cultivated. It provides both major and minor elements to maintain turf in high traffic areas. It will provide immediate, but gentle nourishment in a form of application that can overcome and bypass other nutrient complications due to soil problems. Because amounts applied are tuned to turf's immediate needs, there is no runoff or other environmental problems. May be applied in solution by irrigation or any conventional ground rig, by an injector/proportioner through sprinkler systems, and may be applied in combination with most insecticides, herbicides and fungicides. **RATE: 7.14 oz./1000 sq. ft. = 1/8 lb. N 25 lb. bag**



Nutriculture 12-31-14 Flower \$ 55.00 bag

The flagship product of the Nutriculture line, this formulation is designed for use on all types of ornamental plantings, with the focus on those that bloom or flower. Apply solution liberally to base of plants, soaking the root area. For potted plants and hanging baskets etc., apply enough to create drainage through the pot. Wet foliage for fast-acting leaf feeding. Repeat applications every week to 10 days apart. This is an excellent general purpose fertilizer that is especially effective on flowering and fruiting plants. Also excellent as a starter feed for all varieties and can help wilting in the transplant operation, without burning. May be applied in solution by a bucket, sprinkler can, hose end garden sprayer, backpack sprayer, proportioner through sprinkler systems, by irrigation or any conventional ground rig and may be applied in combination with most insecticides, herbicides and fungicides. **RATE: Outdoor plants - mix one tablespoon/gallon of water. Indoor plants - mix one teaspoon/gallon of water. 25 lb. bag**



Nutriculture 20-20-20 General Purpose \$ 50.00 bag

This all water-soluble fertilizer is specially-formulated as a general purpose feed for use on ornamental plants, small shrubs, fruits and vegetables, and other intensely cultivated crops. It is formulated to provide both major and minor elements. It will provide immediate, but gentle nourishment in a form of application that can overcome and bypass other nutrient complications due to soil problems. Because amounts applied are tuned to the plant's immediate needs, the grower retains better control of his crop's nutrition. May be applied in solution by irrigation or any conventional ground rig, by an injector/proportioner through sprinkler systems, or in combination with most water-based insecticides, herbicides and fungicides. **RATE: 5-10 lbs./acre for most applications 25 lb. bag**



Nutriculture 16-45-7 Hydroseed Starter \$ 56.00 bag

This Nutriculture formula is specially designed as a starter solution which promotes faster seed germination and root development on seeds and transplants, without burning. **RATE: Starter solution: Use 3 lbs. of Seed Starter Special 16-45-7 in 50 gallons of water. For smaller quantities, dissolve two tablespoons in one gallon. Keep seeded areas moist until germination. Use as a watering-in solution on transplants. Hydro-seeding rates of coverage: use 75-150 lbs./acre in enough water to insure even coverage, or if coverage in sq. ft. per tank load is known use the following formula: square feet of coverage per tank load x .0017 to .0035 = lbs. of fertilizer needed per tank load. 25 lb. bag**

LebanonTurf provides innovative and high performance products to the golf and landscape industries in North America and around the world. Golf course superintendents, lawn care operators, professional landscapers and sports turf managers count on LebanonTurf brands to make them successful in their endeavors to create and maintain the best quality turf, plants and trees.

LebanonTurf stands out as the only company in the industry offering both microbiological components along with advanced controlled release fertilizer products delivered as part of an integrated systems approach to turf and plant care needs. In addition, the company's highly-rated grass seed products are available as mixes, blends and in straight varieties. With a network of more than 300 distributors, LebanonTurf products are available throughout the U.S. and in a growing number of international locations.

*****PLEASE CALL FOR CURRENT PRICING**

INSECT CONTROL BLENDS

17-0-5	PROSCAPE 30% PCU, .067 ACELEPRYN, .167 DIMENSION	220 SGN	50 LB BAG
20-0-5	PROSCAPE 30% MESA, .067 ACELEPRYN	220 SGN	50 LB BAG
25-0-5	PROSCAPE 51% MESA, 100% EXPO, .067 ACELEPRYN, .167 DIMENSION	220 SGN	50 LB BAG

BLENDED STANDARD SIZE FERTILIZERS

16-2-3	E-BLEND 60% MESA, 50% BIOSOLIDS	220 SGN	50 LB BAG
25-0-5	PROSCAPE 51% MESA, 1% FE	220 SGN	50 LB BAG

COUNTRY CLUB GREENS FERTILIZERS

12-24-8	COUNTRY CLUB MD STARTER, 40% METH-EX, SOP	80 SGN	40 LB BAG
14-7-14	COUNTRY CLUB MD 70% METH-EX, SOP, 2% FE, 1.5% MG, 1% MN	80 SGN	40 LB BAG
16-0-8	COUNTRY CLUB MD AMMONIACAL, SOP, 1%FE, 1% MG, .5% MN	80 SGN	40 LB BAG
18-3-18	COUNTRY CLUB IV 78% METH-EX, SOP, 1.5% FE, .65% MG, .5% MN	80 SGN	40 LB BAG
18-9-18	COUNTRY CLUB IV 78% METH-EX, SOP, .5% FE, .5% MG, .28% MN	80 SGN	40 LB BAG



FOLIAR NUTRITION is the most economical and effective way, providing that the nutrients are in a usable form as are Grigg Brothers products. Foliar applications of nutrients in this usable form eliminate the problems of soil fixation, or tie up of micro or macro nutrients, provided they are properly chelated. **Why Foliar Feed your turf?** Foliar feeding provides optimum use efficiency for overall reduced nutrient inputs. You get a better response with a poor root system, better response without optimum soil PH, and good results with the plant under stress. It eliminates the possibility of nutrient soil fixation or tie up. It requires lower overall nutrient inputs because of increased efficiency. Foliar feeding enhances pesticide performance, with less nutrients leached past the root system (especially with sand-based greens). It is more economical and effective.

BURLEY GREEN 18-2-3 + .45% Fe
\$ 36.00 per gallon

Burley Green is a 50% slow-release foliar applied and absorbed fertilizer for use on residential lawns and golf course fairways. Burley Green is designed to give rapid green-up without excessive growth by containing a unique proprietary blend of amino acids, organic acids and complex polysaccharides that buffer the nutrient compounds and prevent rapid growth. **RATE: 3-9 oz./1000 sq. ft. 55 gallon drums**

GARY'S GREEN 18-3-4 + Fe + MICROS
\$ 47.00 per gallon

Gary's Green is the flagship of GRIGG's Proven Foliar Nutrient line – offering the ultimate in quality, performance and compatibility. It contains three sources of nitrogen, potassium, phosphorus and a micro-nutrient package. It improves turf color response, density and vigor. It is widely used as a primary source of N for effective 'spoon feeding' in turf nutrition programs. **RATE: 3-8 oz./1000 sq. ft. 2 x 2.5 gallons/case**

GARY'S GREEN ULTRA 14-2-3 + Fe + MICROS
\$ 51.00 per gallon

By popular request, Grigg Brothers combined the two foundation products of Gary's Green and Ultraplex. The blend is 2/3 Gary's Green and 1/3 Ultraplex. It contains three sources of nitrogen, potassium, phosphorus and a micronutrient package. It improves turf color, density and vigor. It is an important component of most GRIGG foliar nutrition programs. **RATE: 6-12 oz./1000 sq. ft. 2 x 2.5 gallons/case**

PK PLUS 3-5-18 + 14% PHOSPHITE
\$ 66.00 per gallon

P-K PLUS is a multi-nutrient formulation that contains 17% potassium, two sources of phosphorus (phosphate and phosphite), two sources of nitrogen and a micronutrient package. It is an excellent option for spring green up and winter turfgrass preparation. P-K PLUS provides phosphate for plant health and root encouragement, potassium for cell strength and rigidity, and micronutrients. It promotes turfgrass color, strength and vigor. **RATE: 6 oz./1000 sq. ft. 2 x 2.5 gallons/case**

SILI-KAL B 8-0-4 10%Ca+Si+B
\$ 60.00 per gallon

Sili-Kal B is a multi-nutrient formulation that contains two sources of soluble nitrogen, potassium, 10% calcium, and boron. It improves turf strength and vigor. It is also an excellent option for turf in sand-based root zones, which tend to be low in available calcium. Sili-Kal B provides for increased plant strength, heat tolerance, and turf rigidity. **RATE: 3-7 oz./1000 sq. ft. 2 x 2.5 gallons/case**

SUPREMA 12-0-12 + MICROS
\$ 45.00 per gallon

Suprema is a multi-nutrient formulation that contains 12% nitrogen, 12% potassium and amino acid complexed iron, manganese and zinc. It is an excellent option for zero phosphorus fertilizer programs. Suprema is a one to one ratio of nitrogen to potassium for balanced inputs and micronutrients for optimum growth and health. **RATE: 3-6 oz./1000 sq. ft. 2 x 2.5 gallons/case**

TUFF TURF 1-0-14 +Si + MICROS
\$ 65.00 per gallon

Tuff Turf is a multi-nutrient formulation that contains 14% potassium, two forms of nitrogen, amino acid complexed magnesium and iron. It is an excellent tool for improving turf strength, vigor and color. Tuff Turf provides increased green speed, turf blade hardening and rigidity, color and quick ball mark, traffic recovery and cold weather tolerance. **RATE: 3-8 oz./1000 sq. ft. 2 x 2.5 gallons/case**

Ultra Plex 4-0-3 + 2% Fe + MICROS
\$ 60.00 per gallon

Gary's Green is the foundation, Ultraplex is the key to the front door. Ultraplex is a combination of macro and micronutrients, plant and root promoting stimulators, and plant and soil wetting agents. Do not use any Grigg Brothers product without tank mixing with Ultraplex, with the exception of Gary's Green Ultra. **RATE: 3-6 oz./1000 sq. ft. 2 x 2.5 gallons/case**



TurfRx C-85
\$ 96.00 per gallon

TurfRx C-85 is a multi-extraction humic and fulvic acid that contains short-, medium-, and long-chain soluble carbon molecules. TurfRx C-85 is soluble across a broad pH range, improving soluble carbon availability in all soil types. The availability of soluble carbon across a broad pH range increases soil microbial diversity and soil health. When combined with synthetic nitrogen, TurfRx C-85 will increase nitrogen efficiency by at least 25%. **RATE: Apply 0.75-3 oz./1000 sq. ft. as a soil application every 1-3 weeks throughout the growing season. Water in. 2 x 2.5 gallons/case**



TurfRx NatureCur
\$ 115.00 per gallon

TurfRx NatureCur is a botanical extract product that contains 5% potassium. TurfRx NatureCur contains proprietary soluble carbon compounds that improve antioxidant production and stimulate root growth & metabolism. TurfRx NatureCur reduces abiotic stress by increasing root quality and quantity, resulting in improved soil health. **RATE: Apply 1.5-22.0 oz./1000 sq. ft. as a soil application every 1-4 weeks. Water in. 2 x 2.5 gallons/case**



TurfRx Ca
\$ 68.00 per gallon

TurfRx Ca is specifically formulated to provide concentrated plant-available calcium for plant nutrition and soil structure. Redox microencapsulation allows for improved calcium uptake and movement within the plant. Redox microencapsulation prevents calcium tie-up in the soil allowing for improved soil structure. TurfRx Ca supplies soluble calcium during critical root development periods. Application is most critical in Spring, Fall and post aeration. **RATE: Apply 0.75-15 oz./1000 sq. ft. as a soil application every 1-3 weeks. Water in. 2 x 2.5 gallons/case**



TurfRx P+
\$ 90.00 per gallon

TurfRx P+ is a high phosphorus fertilizer reacted with specific L-amino acids. Redox complexing technology of phosphorus with soluble carbon chemistry reduces soil tie-up and significantly improves phosphorus efficiency. Six specific L-amino acids and increased soluble phosphorus improve lateral root branching, root development, and overall soil health. The unique formulation of TurfRx P+ is the new standard in phosphorus nutrition and root/stolon development. **RATE: Apply 0.75-6 oz./1000 sq. ft. as a soil application every 1-4 weeks. Water in. 2 x 2.5 gallons/case**



TurfRx Fairway+
\$ 96.00 per gallon

TurfRx Fairway+ is a phosphorus and potassium fertilizer, containing proprietary soluble carbon compounds. TurfRx Fairway+ reduces abiotic stress, improves root development and increases soil microbial diversity due to humic, fulvic, and long-chain soluble carbon content. TurfRx Fairway+ utilizes technology from its proprietary TurfRx formulations of P+, K+, and C-85. **RATE: Apply 1.5-9 oz./1000 sq. ft. as a foliar/soil application every 1-6 weeks. Water in. 2 x 2.5 gallons/case**



TurfRx PeneCal
\$ 99.00 per gallon

TurfRx PeneCal is a soil surfactant reacted with microencapsulated calcium. It reduces water surface tension while delivering calcium and water throughout the soil profile. TurfRx PeneCal improves soil structure, air:water relationships, and overall soil health. **RATE: Apply 0.75-4.5 oz./1000 sq. ft. as a soil application during early season. Apply every 1-4 weeks. 2 x 2.5 gallons/case**



TurfRx K+ Micro Crystal
\$ 27.00 per lb.

TurfRx K+ Micro Crystal is formulated to provide efficient potassium and phosphorus. TurfRx K+ Micro Crystal contains proprietary soluble carbon compounds that improve antioxidant production and increase plant respiration. Antioxidant production and increased plant respiration improves Abiotic Stress Defense. **RATE: Apply 1-6 lbs./acre as a foliar/soil application every 1-4 weeks. Water in. 2 x 10 lbs/case**



TurfRx Si
\$ 92.00 per gallon

TurfRx Si is specifically formulated to provide efficient calcium and silicon nutrition. Silicon enhances the proper uptake and organization of calcium for cell wall structure. Lack of calcium and silicon nutrition leads to abiotic stress and cell wall degradation. Enhancing cell wall structure will reduce ball markings, improve ball speeds, and improve overall playing surface performance. TurfRx Si is unique in its ability to improve Abiotic Stress Defense. **RATE: Apply 0.75-15 oz./1000 sq. ft. as a foliar/soil application every 1-4 weeks. 2 x 2.5 gallons/case**



TurfRx Micro+
\$ 96.00 per gallon

TurfRx Micro+ is an L-amino acid micro-nutrient fertilizer. Redox chelation and complexing technology increases micro-nutrient availability. The specific ratio of each micro-nutrient will improve turf color and surface appearance of sports fields and playing surfaces. **RATE: Apply 0.375-3 oz./1000 sq. ft. as a foliar/soil application every 1-4 weeks. Water in. 2 x 2.5 gallons/case**



TurfRx Supreme
\$ 129.00 per gallon

TurfRx Supreme is specifically formulated to target plant sugar alcohol production-related to nitrogen metabolism in plants. The combination of plant nutrients and increased sugar alcohols will enhance nitrogen metabolism and improve overall quality and performance. **RATE: Apply 0.75-3 oz./1000 sq. ft. as a foliar/soil application. Apply every 1-4 weeks. 2 x 2.5 gallons/case**



ORGANIC-BASED FERTILIZERS!

MILORGANITE 6-4-0 2.5% Fe
Available in Professional Grade
Please Call for Current Price



Milorganite is one of the oldest branded fertilizers on the market. It's composed of heat-dried microbes that have digested the organic matter in wastewater. Milorganite is manufactured by the Milwaukee Metropolitan Sewerage District. The District captures wastewater from the metropolitan Milwaukee area, including local industries such as MillerCoors. Using large-scale processes that mimic nature, microbes digest the nutrients found in the water. The cleaned water is returned to Lake Michigan while the microbes are kiln-dried into small pellets. So Milorganite is actually a bag of dried microbes! At least 60% of the nitrogen in Milorganite is water-insoluble and is delivered to the roots through microbial activity in the soil, but the conditions need to be right. Microbial activity occurs when soil moisture is adequate and soil temperatures are 55–85 F. The microbes break down the nutrients from Milorganite making them available to plants. When conditions aren't favorable, Milorganite's nutrients stay right where they are until there's enough water and the temperature is within range. **RATE: 4-7 lbs./1000 sq. ft. 50 lb. bag**



RAW MATERIALS!

*****PLEASE CALL FOR CURRENT PRICING**

UREA 46-0-0

Available in either a prilled pellet to melt down and spray or a basic 220 granular to spread. Urea is a 100% quick-release source of nitrogen. **RATE: 50 lb. bag treats 46,000 sq. ft. at 1/2 lb. Nitrogen 50 lb. bag**

MAP 10-50-0

Monoammonium Phosphate for phosphorus deficient soils or as a low-salt starter fertilizer. Available in 150 SGN Mini Grade. **RATE: 50 lb. bag treats 25,000 sq. ft. at 1 lb. of Phosphorus 50 lb. bag**

K-MAG 0-0-22 (Sol - Po - Mag)

K-Mag also known as sulfate of potash-magnesia contains 22% soluble potash, 22% sulfur and 11% magnesium. A quick-release source of potassium, Sul-Po-Mag also makes a good addition to soils that lack sulfur. **RATE: 5-10 lbs./1000 sq. ft. 50 lb. bag**

SOP 0-0-50

Sulfate of Potash is a dual-nutrient fertilizer containing 50% potash and 18% sulfate. Available in a sprayable, Mini Granular or a Greens Grade. **RATE: 50 lb. bag treats 25,000 sq. ft. at 1 lb. Potassium 50 lb. bag**

Ammonium Sulfate 21-0-0-24S

A quick-release Nitrogen source with 24% Sulfur for quick green-up. Available in a mini-granular or a sprayable. Should not be used during times of heat and drought stress. **RATE: 50 lb. bag treats 48,000 sq. ft. at 1/4 lb. Nitrogen 50 lb. bag**

SULFUR 90%

Why is sulfur important to turfgrass? In the absence of sulfur, turfgrass exhibits a chlorosis that frequently occurs as an intense yellow color. In mild cases, one may think of nitrogen deficiency or even iron deficiency. Available in a Greens Grade as well as a Regular Grade. **RATE: 2-3 lbs./1000 sq. ft. 50 lb. bag**

TURF MIX MICROS PAK

A granulated micronutrients product for micronutrient deficiencies, as well as new construction. A-tep is a 12% Mg, 9% S, 8% Fe, 3% Mn, 5% Cu and 1% Zn. **RATE: 1.3-2.4 lbs./1000 sq. ft. 50 lb. bag**

UMAXX 46-0-0

UMaxx is the stabilized nitrogen formulation from Koch with 12-16 weeks of stabilized feeding to the turf. UMaxx can be spread in its original form, sprayed by dissolving in water or blended in a fertilizer blend as all or part of the nitrogen source. UMaxx is formulated with a unique inhibitor that blocks urease. This helps minimize nitrogen loss to the atmosphere and provides time for rainfall and irrigation to effectively transport nitrogen to the root zone for plant utilization. **RATE: 50 lb. bags will treat 100,000 sq. ft. at .25 lb. N 50 lb. bag**

UFLEXX 46-0-0

Uflexx is the stabilized nitrogen formulation from Koch with 6-8 weeks of stabilized feeding to the turf. Uflexx can be spread in its original form, sprayed by dissolving in water or blended in a fertilizer blend as all or part of the nitrogen source. **RATE: 50 lb. bags will treat 100,000 sq. ft. at .25 lb. Nitrogen 50 lb. bag**



**PLANT
FOOD**



**PLANT
FOOD**
COMPANY, INC.
"Products Built for Playability"

Improved Cellular Integrity



Increased Stress Tolerance



Improved Moisture Management



Accelerated Rooting



 Improved Firmness, Strength & Playability

.30 CAL, 30% LIQUID CALCIUM
\$ 69.00 per gallon

.30 Cal 30% Liquid Calcium provides a high calcium concentration of calcium acetate and calcium carbonate that combines immediately available calcium with a longer, gradual calcium release. Calcium is essential for cell wall formation; stimulating roots and leaf formation; and neutralizing organic acids. The available calcium from .30 Cal will displace soil-binding sodium. **RATE: See label for details.**
 2 x 2.5 gallons/case



BLACKSTRAP MOLASSES
\$ 34.00 per gallon

Blackstrap Molasses is the by-product of sugar refining that contains all the nutrients from the raw sugarcane plant. Of the varieties of molasses, Blackstrap Molasses is richest in sources of sugars, carbon, enzymes, B-vitamins and trace elements. Blackstrap Molasses is a carbohydrate energy source that feeds soil microorganisms and increases microbial activity. With continued applications, Blackstrap Molasses encourages a soil environment that helps reduce thatch. **RATE: See label for details. Rates depend on type of turf treated. 5 gallon pail**



7-0-7, 20% SULFUR +
7-0-7, 20% S, .1% Mg, .2% Mn, .1% B
\$ 35.00 per gallon

This 7-0-7, 20% S, .1% Mg, .2% Mn, .1% B liquid fertilizer is a balanced nitrogen to potassium formula with a high amount of sulfur. The sulfur acts as a "time-released" sulfur over a 1-3 week period, which is ideal for sand-based soils in which sulfur tends to leach. In addition, the thiosulfate form of sulfur tends to reduce nitrogen volatilization, which in turn increases the availability of nitrogen to the plant. Sulfur activates certain enzyme systems and will improve the availability of many micronutrients. The nitrogen is plant available in very cool temperatures and throughout the growing season. **RATE: See label for details. 2 x 2.5 gallons/case**



DKP XTRA 2-20-22
\$ 67.50 per gallon

DKP XTRA 2-20-22 is a uniquely balanced polymeric combination of potassium polyphosphates and polyphosphites. It contains nitrogen, phosphate, potassium and polyphosphite. DKP XTRA 2-20-22 is a systemic liquid fertilizer that enhances roots while turning on the plant's natural defense mechanism. Ideal for nutrient applications that require a balanced ratio of phosphate and potassium. It is ideal for foliar and soil applications on a wide variety of warm and cool season turf varieties and can also be used as a starter fertilizer. Since DKP XTRA 2-20-22 has excellent plant uptake; it is an ideal alternative to mono-potassium phosphate and potassium nitrate with the added benefit of potassium polyphosphite that turns on the plant's natural defense mechanism. **RATE: 2-9 oz./1000 sq. ft. 2 x 2.5 gallons/case**



17-2-7 72% SRN
\$ 760.00 per 55 gallon drum

17-2-7 with 72% SRN and Micronutrients is a great formulation for maintaining the health, vigor and color of your turfgrass. The stabilized nitrogen provides long-lasting release which results in extended turf response. 17-2-7 is compatible with most technical materials when tank-mixed with adequate water volume. Since the product is designed for fairways, lawns and sports fields, it is only available in 55 gallon drums or 250 gallon totes. **RATE: 3-8 gallons/acre 55 gallon drums**

ADAMS EARTH
\$ 85.00 per gallon

AdamsEarth is an organic blend of humic and amino acids, North Atlantic Ascophyllum Nodosum SeaWeed Extract (SWE), natural sugars, vitamins and other organic compounds. The organic nutrients in AdamsEarth will aid in the improvement of soil structure, rooting, and the uptake of N-P-K and minor elements. AdamsEarth contains several different sources of organic matter which will break down at varying times during the growing cycle, providing a longer period to aid in microbial feeding. AdamsEarth is a unique combination of humic acid, biostimulants, and micro-nutrients. The humic acid will assist in chelating nutrients tied up in the soil. North American Ascophyllum Nodosum SeaWeed Extract (SWE) improves rooting caused by auxin, cytokinin, and gibberellin hormones. The micronutrients will aid in the correction of soil deficiencies that may be caused by imbalances due to low or high pH. **RATE: 2-9 oz./1000 sq. ft. 2 x 2.5 gallons/case**



FLO THRU A-PLUS
\$ 78.00 per gallon in 2.5 gallons
\$ 1,900 per 30 gallon drum

FloThru™ A-Plus is an acid-based penetrant that dissolves bicarbonates and frees calcium. Available soil calcium will then displace soil sodium. The penetrant "flattens" droplet beading by reducing water tension. This results in even coverage of sprays on leaf blade. The penetrant also provides even water penetration into the soil which reduces localized dry spots. The double action of FloThru™ A-Plus results in even spray coverage on leaf blade, faster and even water penetration into soil, and consistent soil moisture due to uniform water movement. Dissolving bicarbonates provide available soil calcium for an extended period due to the long-lasting acid. **RATE: 0.75-3.0 oz./1000 sq. ft. 2 x 2.5 gallons/case and 30 gallon drums**



GREEN-T 6 IRON, 12-0-0
6% Iron, .05% Manganese 12-0-0,
3.3% Sulfur
\$ 27.00 per gallon in 2.5 gallons
\$ 610.00 per 30 gallon drum

Green-T® 6 Iron is an iron, manganese and nitrogen complex for prevention and correction of nutrient deficiencies. Iron and manganese are involved in photosynthetic and respiration systems. It assists chlorophyll synthesis and is used as a reaction catalyst. In turf, iron and manganese produce a deeper green leaf blade. The urea nitrogen enhances the uptake of these secondary and micro nutrients within the plant. **RATE: See label for details. 2 x 2.5 gallons/case or 30 gallon drum**



PLANT FOOD COMPANY!

GREEN-T 12 IRON

**6% Iron, 2% Manganese 12-0-0,
.25% Magnesium & 4% Sulfur
\$ 35.00 per gallon**

Green-T® 12-Iron is an iron, manganese and magnesium glucoheptonate chelate liquid that produces a deep green turf blade without excessive growth. The glucoheptonate chelate protects the iron, manganese, and magnesium from tying up in the soil, while allowing the micronutrients to be available to the plant. The results in turf response that is visible within 12 hours after application. Green-T 12-Iron's "3-1 ratio" of iron and manganese promotes a "natural" deep green turf for an extended period of time. Iron and manganese act as an enzyme that enhances photosynthetic and respiration systems. The urea nitrogen enhances the uptake of these secondary and micro nutrients within the plant. **RATE: 2-4 oz./1000 sq. ft. 2 x 2.5 gallons/case**



GREEN-T 29-0-0, 50% SRN

\$ 40.00 per gallon

Green-T® 29-0-0, 50% SRN with Calcium, Sulfur & Micronutrients is a cost effective, high nitrogen formula that contains four different sources of nitrogen. The quick release ammonium nitrate, urea and ammonium thiosulfate provides rapid turf response, even in cooler weather conditions while the non-leaching, slow release triazone nitrogen provides long lasting turf response. The chelated micronutrients provide extended release since the EDTA chelates prevents them from binding with the soil while keeping them plant available longer. **RATE: See label for details. 2 x 2.5 gallons/case**



GREEN-T 12-3-12, 50% SRN SULFUR & NUTRIENTS

\$ 37.00 per gallon

Green-T® 12-3-12, 50% SRN is an excellent balanced nitrogen to potassium ratio fertilizer that contains a full micronutrient package. This formula is ideal for foliar and root fertilization. 50% of the available nitrogen is slow release from Triazone, while the remaining nitrogen is in the quick release form. It provides immediate plant response while the Triazone slow release nitrogen maintains the nitrogen release for an extended period of time. The micronutrients are in the EDTA chelate form which enhances their availability and allows tank mix compatibility. **RATE: See label for details. 2 x 2.5 gallons/case**



GREEN-T HEALTHY START, 8-27-5 Ammonium Polyphosphate and Phosphite Solution Turfgrass Product

\$ 53.00 per gallon

Green-T® Healthy Start 8-27-5 is a unique high polyphosphate and potassium formula with Polyphosphite. The ammonium polyphosphate and potassium stimulate rooting, increase cell wall structure, thickness and turgidity, while the polyphosphite stimulates the plant's natural defense mechanism that encourages healthier plants. Each gallon of Green-T® Healthy Start 8-27-5 contains 24 oz. of PolyPhosphite 30. Polyphosphates have natural chelating capabilities which make soil bound micronutrients more available to the plant. **RATE: See label for details. 2 x 2.5 gallons/case**



GREEN-T 16-0-8, 50% SRN Sulfur & Micronutrients

\$ 36.00 per gallon

Green-T® 16-0-8, 50% SRN is an excellent 2:1 nitrogen to potassium ratio fertilizer that contains a full micronutrient package. This formula is ideal for foliar and root fertilization where no phosphate is required. 50% of the available nitrogen is slow release from Triazone, while the remaining nitrogen is in the quick release form. It provides immediate plant response while the Triazone slow release nitrogen maintains the nitrogen release for an extended period of time. Ideal to tank mix with Phosphite 30. The micronutrients are in the EDTA chelate form which enhances their availability and allows tank mix compatibility. **RATE: See label for details. 2 x 2.5 gallons/case**



GREEN-T IMPULSE 6-0-0 AMINO ACID

\$ 64.00 per gallon

Green-T® Impulse is a proven amino acid mix and sucrose combination derived from natural stress-resistant plant complexes. It increases potassium and calcium levels within plant cell walls and improves stress tolerance while decreasing H₂O₂ levels. This aids in the reduction of wilt stress. It is a biologically-active nutrient source that can promote a strong healthy turf plant. Salicylic acid (SA) inside the Green-T Impulse formulation is a key molecule that stimulates the plant's Systemic Acquired Resistance (SAR) response, which stimulates the plant's natural defense mechanism against disease. SA also improves the plant's ability to uptake nutrients. **RATE: 3-9 oz./1000 sq. ft. 2 x 2.5 gallons/case**



GREEN-T 16-2-7, 25% SRN Magnesium, Sulfur, Micronutrients, Amino Acid Matrix & Carbohydrates

**\$ 46.00 per gallon for 2.5 gallons
\$ 1,200.00 per 30 gallon drum**

Green-T® 16-2-7, 25% SRN is a unique, multi-ingredient liquid fertilizer ideal for cool and warm season turf. The 16-2-7, 25% SRN formula contains 4 different nitrogen sources, 2 different potassium sources, a tech grade phosphate source, chelated micronutrients for immediate and long-term availability plus amino acids matrix to increase tolerance to turf stresses. The Triazone nitrogen provides extended nitrogen release and also improves foliar uptake of all nutrients by delaying the drying of the nutrient spray when it is initially applied. **RATE: 6-16 oz./1000 sq. ft. 2 x 2.5 gallons/case or 30 gallon drums**



GREEN-T INFILTRATE-K, 0-0-29 Organic-Based Potassium Acetate

\$ 54.00 per gallon

Green-T® Infiltrate-K 0-0-29 is an organic-based potassium acetate that rapidly enters the foliar tissue. Due to its low burn potential, rapid leaf absorption, high potassium plant uptake and slow drying characteristics, applications of Infiltrate-K result in safer foliar applications and less stress on the plant. Infiltrate-K aids in reducing the freezing temperature of water without undue stress to turf. Applications of Green-T® Infiltrate-K 0-0-29 in the spring and fall will reduce the incidence of morning frost for a few days after application. **RATE: See label for details. 2 x 2.5 gallons/case**





GREEN-T MAGNESIUM 4%
Magnesium Glucoheptonate Chelate
\$ 54.00 per gallon

Green-T® Magnesium 4% is a chelated secondary element for prevention and correction of nutrient deficiencies. The glucoheptonate chelate of Magnesium 4% prevents the micro-nutrient from binding with other nutrients such as phosphate. By keeping the magnesium available for an extended period of time, the results are a long-lasting, deep green plant. **RATE: See label for details.** 2 x 2.5 gallons/case



GREEN-T MICRO MIX GLUCOHEPTONATE CHELATE
Magnesium, Sulfur 1-0-0 & Micronutrients
\$ 54.00 per gallon

Green-T® Micro Mix is an organically chelated micronutrient package. The glucoheptonate organic chelating agent encapsulates the micronutrients. This prevents the micronutrients from being held by soil particles. Micro Mix will remain available to the plant through foliar and soil applications without being tied up by soil imbalances. The minimal amount of Nitrogen helps to aid in the foliar absorption of the micronutrients. **RATE: See label for details.** 2 x 2.5 gallons/case

GREEN-T MICRO PACK, EDTA CHELATE SOLUTION
\$ 77.00 per gallon

Green-T Micro Pack EDTA Chelate Solution is an extended-release blend of Micronutrients for soil health. It contains iron, manganese, zinc, copper, boron, and molybdenum. **RATE: See label for details.** 2 x 2.5 gallons/case



GREEN-T POLYPHOSPHITE 30, 0-0-27
\$ 75.00 per gallon in 2.5 gallons
\$ 2,200.00 per 30 gallon drum

The only true long-lasting potassium polyphosphite fertilizer, PolyPhosphite 30 is a pure potassium polyphosphite fertilizer solution that is manufactured in a one-step process by reacting phosphorous acid and potassium hydroxide in a patented high-temperature, rapid-cooling process that preserves the maximum amount of phosphorous in the desirable H_3PO_3 form. This unique manufacturing process neither contains nor requires any H_3PO_3 preserving or solubility additives that are necessary in competitive products. As a result, PolyPhosphite 30 economically feeds and protects the plant through superior phosphorous acid nutrition. It is rapidly-absorbed by turfgrass blades for maximum nutritional benefit in order to prevent and correct nutrient deficiencies and to promote disease resistance. Note: with foliar applications, phosphite ions are taken up directly by the plant foliage and may undergo a degree of conversion to phosphate ions, or be utilized directly by the plant as phosphite ions. **RATE: 2-6 oz./1000 sq. ft. 2 x 2.5 gallons/case or 30 gallon drum**



GREEN-T SUGAR CAL 10% CALCIUM CHELATE
\$ 54.00 per gallon

Use Green-T Sugar Cal for the prevention and correction of micronutrient deficiencies and calcium. Calcium is a major component in the development of cell wall formation and structure. Calcium also helps in regulating nutrient uptake by the roots and movement through the plant. Sugar Cal is a unique calcium source containing sorbitol, also known as mannitol, which creates sugar calcium chelate. The chelating agent encapsulates the calcium ion. When used in a program with other nutrients, Sugar-Cal makes the other nutrients more available. **RATE: 3-6 oz./1000 sq. ft. 2 x 2.5 gallons/case**



GREEN-T SUPER MK GREEN, 18-3-4
Micronutrients, Vitamin Amino Acid Matrix (VAM) & Carbohydrates
\$ 45.00 per gallon

Green-T® Super MK Green 18-3-4 is an excellent, high nitrogen fertilizer that contains a micronutrient package. This formula is ideal for foliar fertilization and offers great turf safety when applied as directed. All of the nitrogen is in the quick release form. The micronutrients are in the EDTA chelated form which enhances their availability while in the soil and allows tank mix compatibility with many other products. It is ideal to tank mix with PolyPhosphite 30 and 12 Iron. **RATE: See label for details.** 2 x 2.5 gallons/case



HYDRATION A-PLUS
\$ 121.00 per gallon in 2.5 gallons
\$ 3,425.00 per 30 gallon drum

Plant & Soil Hydrating Agent & Bicarbonate Reducer. Hydration A-Plus provides uniform water movement and consistent plant & soil moisture, while reducing sodium and bicarbonates! This Plant & Soil Hydrating Agent dissolves bicarbonates and frees calcium. Available soil calcium will then displace soil sodium. The triple action of Hydration A-Plus results in faster water penetration into soil, consistent soil moisture due to uniform water movement, prevents LDS due to its ability to hold moisture in soils that are water repellent and dissolves bicarbonates due to the long-lasting acid. **RATE: 0.75-4.0 oz./1000 sq. ft. (2-4 oz. for sodium flush) 2 x 2.5 gallons/case or 30 gallon drums**



KELP IRON 8-0-0
\$ 46.00 per gallon

Plant Food Kelp Iron with manganese & fulvic acid that is in the desirable 3:1 ratio. This 3:1 ratio of iron to manganese is ideal to promote naturally deep green turf. Iron and manganese act as an enzyme to promote chlorophyll development within the turf blade and influence photosynthesis. The acid-based technology utilized in Green-T Kelp Iron with manganese & fulvic acid aids in dissolving bicarbonates which makes nutrients more available to the turf. **RATE: 2-6 oz./1000 sq. ft. 2 x 2.5 gallons/case**



PLANT FOOD COMPANY!

KELPLANT 1-0-1 \$ 105.00 per gallon

KelPlant® 1-0-1 contains an extract of North Atlantic Ascophyllum Nodosum SeaWeed Extract (SWE) plus Humic and Fulvic Acids. KelPlant® 1-0-1 provides added stress tolerance and root enhancement while increasing microbial activity. KelPlant® 1-0-1 relieves stress in the plant, resulting in superior quality in turf density and hardness. The Humic and Fulvic Acids release tied-up nutrients and make them available to the plant. In addition, research has shown that SWE and Humic Acid are excellent forms of Cytokinin that promote root mass and shoot growth. **RATE:** See label for details. 2 x 2.5 gallons/case



PHUSION KCS PLUS 0-0-18 10% Ca, 3% Mg, 16% S, 3% Mn \$ 100.00 per bag

pHusion KCS Plus 0-0-18 supplies five vital nutrients critical for proper soil chemistry: potassium, calcium, magnesium, sulfur and manganese. When soils are deficient in these nutrients, other primary and secondary nutrients can become unavailable which prevents the plant from efficiently utilizing the nutrients within the soil. Manganese acts as an enzyme to promote chlorophyll development. Manganese can help reduce certain patch diseases in turf. pHusion KCS Plus 0-0-18 contains pHusion Organic Acid which aids in releasing tied up nutrient complexes. In turn, these nutrients become available to the plant. **RATE:** See label for details. 50 lb. bag

PHUSION KMS PLUS 0-0-12 15% Ca, 6% Mg, 12% S \$ 67.00 per bag

pHusion KMS Plus 0-0-12 supplies four vital nutrients critical for proper soil chemistry: potassium, calcium, magnesium and sulfur. When soils are deficient in these nutrients, other primary and secondary nutrients can become unavailable which prevents the plant from efficiently utilizing the nutrients within the soil. pHusion KMS 0-0-12 contains pHusion organic acid, which aids in releasing tied up nutrient complexes. In turn, these nutrients become available to the plant. **RATE:** See label for details. 50 lb. bag

PHUSION MANGANESE 7%, SULFUR 4% \$ 26.00 per gallon

pHusion Manganese 7% is an acid-based manganese liquid that is ideal for correcting manganese deficiencies in the soil. The acid-based liquid formulation contains urea-sulfuric acid that aids in acidifying soil. Manganese availability increases when soil pH is maintained below 7.0. It influences photosynthesis and is involved in several plant enzymes that promote chlorophyll production in the plant. The result is a darker, natural green tissue. Turf that is grown in soils that have higher soil pH than 7.0 and low manganese levels may be prone to certain undesirable disease pathogens that may cause detrimental results due to low available manganese levels. **RATE:** See label for details. 2 x 2.5 gallons/case



POTASSIUM+ 0-0-25 \$ 38.00 per gallon

Potassium+ 0-0-25, 17% Sulfur is a neutral to basic, chloride-free, clear liquid solution. It can be used as the sole potassium source with the additional benefit of sulfur to aid in more efficient nitrogen utilization. Potassium+ 0-0-25, 17% Sulfur may also be combined with nitrogen and phosphorous sources to supply the desired fertilizer blend for proper turf nutrition. Split the applications to coincide with the nutritional demands of the cultivars present. **RATE:** 4-8 oz./1000 sq. ft. 2 x 2.5 gallons/case



RUSTY'S MINERAL ABSORPTION ENHANCER \$ 173.00 per gallon

RUSTY'S 2-0-1 is a natural-based fertilizer and mineral absorption enhancer that promotes the uptake of nutrients into the plant to encourage vitality of the root structure and turf canopy. It increases the plant's ability to produce recovery growth quickly and aids in the reduction of common plant stress symptoms. Rusty's can be applied with other Plant Food Company nutrient solutions for compounded positive results. Consider applying Rusty's before and after events which could cause plant stress. **RATE:** See label for details. 2 x 2.5 gallons/case



SILI-K 21% SILICA 2-0-10, SILICA & POTASSIUM COMPLEX \$ 96.00 per gallon

Sili-K 21% Silica is formulated to stimulate and promote plant growth and enhance soil enrichment. Promotes easier mowing cut, stiffens leaf blades and improves ball roll. It can be incorporated in fertigation solutions, or as a foliar spray. The spray adjuvant grade urea nitrogen enhances the foliar uptake of Sili-K 21% Silica into the plant. Turf stands up: Sili-K 21% Silica causes the leaf blade to stand up for better cut, photosynthesis, faster ball roll, and fewer ball marks. Physiological effect: Sili-K 21% Silica imparts water economy and drought resistance as well as increasing the synthesis of chlorophyll and plant proteins. **RATE:** See label for details. 2 x 2.5 gallons/case





**EARTH
WORKS**



You see beautiful turf.
We see beautiful soil.

PROGRAMS

Construction

Speed and quality of grow-in is significantly improved. Builds strong and deep roots on seeding, and sodding projects.

Customizable to your budget.

Aerification

Renovate Plus & Myco Replenish 10 lbs/1000 of each in aerification holes.

Replenish your soil with long term benefits.

Stress Recovery

Replenish fertilizers and Sea 3 sprays

1-3 applications of Replenish and monthly apps of Sea 3 @ 1gal/AC.

Foliars+ 555 Spoon Feeding Program

5 oz of CalVantage, Protein Plus & Trilogy biweekly

The Foliars+ line of liquid fertilizers provides complete nutrition.

This program will build roots, digest thatch, provide vigor and recovery by both foliar feeding the grass and feeding the soil microbes.

KICK Rinse In

Removes both sodium and bicarbonate from the root zone (10 oz KICK, 5 oz CalVantage, gypsum, penetrant surfactant, potassium sulfate. Spread gypsum. Mix KICK, CalVantage and surfactant in sprayer and rinse in to surface with enough water to push material through the root zone. Apply once per month or according to soil test.)

EarthWorks 

A Deeper Respect



800-732-TURF • info@earthworksturf.com • www.earthworksturf.com

EARTHWORKS products are designed to support the concept of biological soil management, which is defined as the practice that encourages the proliferation of beneficial microorganisms. By following a "soil first" method of balancing soil chemistry and feeding the soil with rich organic and mineral-based products, you will allow for better air and water movement. It is this physically improved soil environment that is necessary to help stimulate needed soil microbes and create healthy soil.

Dry Organics

The Replenish line of fertilizers are complex-formulated dry organics. EarthWorks is dedicated to formulating the most agronomically complete products available. We have over 20 years of experience in working with biological soil management programs and our fertilizers are designed to maximize the microbial activity of any soil. Healthy soil promotes healthy plants. We start with mineral rich poultry compost from egg-laying birds that has gone through two digestion cycles. The by-products of this biological digestion bring with them a host of soil and plant benefits, including increased enzymes, amino acids and, most importantly, minerals. These benefits are not found in most commercial natural organic fertilizers. Once the raw material has been composted, we add a large percentage of rock minerals. Following the EarthWorks Carbon Pyramid approach, complex carbohydrates and humic acids are blended into the product, creating one of the most powerful soil and plant foods available.

MYCO-REPLENISH 3-3-3

Greens Grade - \$ 53.00 per bag
Standard Grade - \$ 52.00 per bag

Mycro-Replenish combines the high quality of EarthWorks OMRI-listed organic poultry compost with root stimulating endo and ecto mycorrhizae fungi. Myco-Replenish is ideal for any landscape planting situation, establishment of grass seed or sod and will enhance all soil aeration practices. An extensive amount of Mycorrhizae fungi in combination with the known value of the Replenish compost fertilizer will help to promote extensive root growth, reduce heat and drought stress, improves water and nutrient-uptake and can eliminate transplant shock. Mycorrhizal fungi increase the surface absorbing area of roots 10 to 1,000 times, thereby greatly improving the ability of the plant to use the soils resources. Several miles of fungal filaments can be present in the thimbleful of soil. But mycorrhizal fungi increase nutrient uptake not only by increasing the surface absorbing area of the roots, but also release powerful enzymes into the soil that dissolve hard-to-capture nutrients, such as phosphorous, magnesium and other "tightly bound" soil nutrients.

RATE: 10-25 lbs./1000 sq.ft. on turf at time of aeration 50 lb. bag



REPLENISH 8-2-2

Standard Grade - \$ 43.00 per bag

Replenish 8-2-2 is a cost effective blend of ammonia sulfate and our organic poultry compost. Replenish compost is a rich egg layer compost that has not been pasteurized. It is very biologically active and will provide your turf with a mineral and nutrient rich carbon-based fertilizer that will produce a rich deep color with long lasting results. The ammonium sulfate provides a quick green-up and can help release tied up calcium and lower soil pH. The combination of Replenish compost (with its ability to hold water and build soils) and ammonium sulfate, makes this an ideal dormant feed product, a good spring green up product and an exceptional post summer recovery product. **RATE: For 1/2 lb. of Nitrogen on turfgrass apply 7 lbs. 8-2-2/1000 sq. ft. 50 lb. bag**



REPLENISH 10-2-5

Greens Grade - \$ 67.00 per bag
Standard Grade - \$ 66.00 per bag

Replenish 10-2-5 is an ammonium sulfate-formulated natural organic fertilizer. This product is a combination of soluble ammonium sulfate nitrogen and rich biologically-active Replenish fertilizer. Ammonium sulfate is ideal for spring and fall applications to help warm up cool soils and release tied up calcium, while providing a soluble form of nitrogen. When blended with the EarthWorks Replenish compost and rock minerals, a powerful fertilizer is created that feeds both the soil and the plant. **50 lb. bag**



REPLENISH 3-4-3

\$ 27.00 per bag

Replenish 3-4-3 is 100% egg layer poultry compost. This product is a very effective and inexpensive form of top-dressing fertilizer and is an important part of many soil programs. The compost used in this product is all egg layer waste, which is very high in calcium, carbon and naturally occurring minerals. This product has gone through two separate digestion cycles, one in the bird and one in the composting facility. The digestion process in the animal allows all the minerals not used by the bird to become a part of the fertilizer. The additional composting process then adds more microbial richness. **50 lb. bag**



RENOVATE PLUS

\$ 66.00 per bag

Renovate Plus is a 50/50 combination of EarthWorks Renovate and Eco-Lite and is a powerful amendment that will open tight soils, speed turf recovery, and stimulate soil biology without a big nitrogen push. This combination allows for oxygen movement through the soil and promotes an active microbial generated nitrogen cycle. It is ideal for numerous projects on the golf course or sports field and can "save" those hard to grow areas. Renovate is a blend of organic and mineral amendments including kelp meal, compost and humic acids which make up a sustainable microbial food source of short, medium and long chained carbons. The diversity of ingredients allows for a quick jump-start of soil activity that is sustainable. The mineral fraction of Renovate includes greensand, sul-po-mag, hard and soft rock phosphate, and calcium. This combination prevents de-mineralization of the soil and allows for roots to take up nutrients as needed, and is a great way to provide a biological foundation to any soil by promoting soil flocculation and turf recovery. **RATE: Apply 10-25 lbs./1000 sq. ft. for seed establishment or at aeration. 50 lb. bag**



REPLENISH 5-4-5

Greens Grade - \$ 53.00 per bag
Standard Grade - \$ 52.00 per bag

Replenish 5-4-5 is the most complete plant and soil food on the market today and is the "flagship" of the EarthWorks product line. 5-4-5 is an all-purpose formulated natural organic fertilizer that can be used for any turf or ornamental application without fear of burn or salt build-up. **50 lb. bag**





Bio Vantage
\$ 75.00 per gallon

Bio Vantage incorporates biological inoculants including Rhizobacteria, proven plant stimulants and soil amendments to enhance the value and efficacy of the biologicals. It is a unique liquid organic fertilizer formulated with fish, kelp meal, and seawater extracts specifically designed and formulated to promote maximum biological enhancement of the Rhizobacteria package. It will improve the soils ability to digest organic matter in the root zone reducing thatch, building water holding humus, providing available food for microorganisms, which will improve nutrient mobility and provide checks and balances for pathogens. **RATE: 3-5 oz./1000 sq. ft. 2 x 2.5 gallons/case**



Cal-Vantage
\$ 63.00 per gallon

Cal-Vantage uses calcium, carbon, nitrogen, sulfur, and boron synergistically to address plant nutrition. Unlike singular calcium products, chelated or not, it provides ingredients that are associated with the uptake of plant foods. The result is a very bioactive and available form of calcium, in combination with an ample amount of plant available boron. There are very few soils found in the turf industry that will not benefit from the increased calcium mobility that Cal-Vantage can provide. **RATE: 2-8 oz./1000 sq. ft., 8-16 oz. for sodium removal 2 x 2.5 gallons/case**



Kick
\$ 67.00 per gallon

Kick is the ultimate soil conditioner. Designed to help open tight soils and stimulate microbial activity, Kick will promote healthy root growth in both turf and ornamentals, reduce plant stress, break nutrient bonds in the soil and is an available food source for microbial populations. With over twenty raw materials, Kick is one of the most complete soil conditioners available. Use Kick as part of a regular liquid application program for very tight soils, sodium rich soils, or to help stimulate new plantings. **RATE: 5-10 oz./1000 sq. ft. 2 x 2.5 gallons/case**



Mag Vantage
\$ 72.00 per gallon

Mag Vantage is a carbon-based magnesium complex designed to help build chlorophyll development in the plant to improve color and vigor. It is formulated using multiple forms of magnesium to maximize uptake in all kinds of soil and environmental conditions. Mag Vantage can help any plant in any environment be stronger and recover more quickly. Magnesium is the "photosynthesis element" and is essential in providing long-lasting color and carbohydrate synthesis in the plant. By building a product with multiple forms of magnesium, we improve mobility in all soil and environment conditions; and by combining them with multiple forms of carbon, and other co-factors needed for uptake, we insure significantly higher mobility. **RATE: 3-8 oz./1000 sq. ft. 2 x 2.5 gallons/case**



Protein Plus 14-2-5
\$ 62.00 per gallon

Protein Plus provides color, vigor, recovery and plant health. Protein Plus combines six forms of nitrogen for maximum efficiency along with an entire spectrum of essential macro and micro nutrients and other important co-factors that are essential in the construction of a complete protein within the plant. Protein Plus uses over 60 trace elements, vitamins, minerals, carbon sources and other cofactors to help the plant quickly and efficiently build chlorophyll before pathogens have the opportunity to consume the free nitrogen and proliferate. **RATE: 5-10 oz./1000 sq. ft. 2 x 2.5 gallons/case**



Sea 3
\$ 57.00 per gallon

Sea 3 is a unique liquid organic fertilizer formulated from three distinctive sea-based nutrient sources: fish meal, kelp meal and sea water extracts. It is designed to feed the plant with nutrients that are stabilized with a host of carbon sources that allow the nutrients to stay in soil solution longer and allow the plant to take them up more completely. **RATE: 2-4 oz./1000 sq. ft. 2 x 2.5 gallons/case**



Trilogy TBS
\$ 68.00 per gallon

Trilogy TBS is the TOTAL biostimulant. This unique blend provides a base line program for plant, root and microbial stimulation. It supports strong plant growth and recovery, with a host of macro and micro nutrients; root stimulation with a concentration of humic and fulvic acids, and promotes a healthy and active microbial population with multiple forms of carbon. It is a very dynamic product with over thirty raw materials to help build a stronger plant that will survive the rigorous pressures of today's golf, sports turf and ornamental plant environments. It can be tank-mixed with most turf and ornamental products. **RATE: 5-12 oz./ 1000 sq. ft. 2 x 2.5 gallons/case**





Ignition

THE PERFECT SHADE OF GREEN STARTS WITH MESA-XP



HEALTHY

BIOSOLIDS, IRON
AND MESA®
SLOW-RELEASE



PRODUCE A THICK,
GREEN LAWN

MESA^{XP}

MESA-XP builds on proven MESA® technology, providing controlled release of both nitrogen and potassium. The timely nutrient distribution supports both rapid green-up and long-term turf health while improving sustainability through reduced loss to leaching.

E-Blend

For a thick, healthy lawn that greens up fast, count on E-Blend 16-2-3 fertilizer. It has the right amount of iron for a quick green-up, and it's packed with organic matter from biosolids and slow-release nitrogen from the MESA® for sustained feeding. It's the ideal blend for continued performance without surge growth.

Learn more at LebanonTurf.com or call
1-800-233-0628.





2-0-16 POTASSIUM PHOSPHITE

\$ 75.00 per gallon

2-0-16 Potassium Phosphite is a highly concentrated potassium phosphite formulation. Designed to deliver supplemental potassium, 2-0-16 aides in correcting nutritional deficiencies and combating plant stress. **RATE: 0.5-2 oz./1000 sq. ft. in cool and warm season turfgrass. Apply 2 quarts in 100 gallons of water as a foliar spray or soil drench. See label for details. 2 x 2.5 gallons/case**



NEW! BACKTRACK SPRAY PATTERN INDICATOR

\$ 55.00 per gallon

Backtrack Spray Pattern Indicator is designed to mark chemical spray solutions on golf courses, parks, commercial and nursery applications. It is a proprietary temporary colorant blend used as a visual aid to identify the areas already treated by the applicator. For use with pesticides, fertilizers, and PGR foliar applications on turfgrass and other non-crop vegetation sites. **RATE: Add 6-10 oz. per 100 gallons of water-based spray solution. Backtrack may be used with all types of spray equipment. Shake or agitate before use. 4 x 1 gallons/case**



2-0-26 K-ACE

\$ 46.00 per gallon

2-0-26 K-ACE is a unique formulation of potassium derived from potassium acetate. Potassium acetate has significantly higher foliar availability over traditional forms of potassium. This, combined with high plant safety, makes potassium acetate the potash of choice for enhanced nutrient uptake. **RATE: 2-8 oz./1000 sq. ft. in cool and warm season turf. Use weekly or biweekly throughout growing season or as indicated by soil or tissue testing. 2 x 2.5 gallons/case**



CAL-10

(Calcium nitrate)

\$ 48.00 per gallon

Ignition Cal-10 is a liquid formulation of calcium nitrate designed to prevent and/or correct calcium deficiencies in all crops, ornamentals and turf. Cal-10 contains 1.09 pounds of calcium and .87 pounds of nitrate nitrogen per gallon. Cal -10 provides the nutrients necessary for increasing plant vigor, cell wall formation, and stimulating root and leaf formation. **RATE: 5-24 oz./1000 sq. ft. 2 x 2.5 gallons/case**



14-2-14 (50% SRN)

\$ 37.50 per gallon

This balanced core fertility product is formulated to maximize foliar delivery to turf. Half of the nitrogen is slowly available, which provides a longer, more consistent color response with a lower salt index than traditional fast release nitrogen sources. The potassium is derived from potassium acetate, which has extremely high rates of foliar absorption compared to traditional potash sources. **RATE: 4-6 oz./1000 sq. ft in cool season turf, 6-8 oz./1000 sq. ft. in warm season turf, 1 gallon in 100 gallons of water for nursery/ornamentals. See label for details. 2 x 2.5 gallons/case**



COVER-UP

90-10 Nonionic + Odor Reducer

\$ 45.00 per gallon

Ignition Cover-up Surfactant with odor reduction technology enhances the performance of a wide range of pesticides by thoroughly wetting the pest and spreading the active ingredient on the target surface. The odor reduction technology system significantly reduces and eliminates offensive pesticide odors of herbicides and various insecticides. **RATE: 1-2 pints/100 gallons 2 x 2.5 gallons/case**



18-3-6 (50% SRN)

\$ 36.50 per gallon

This low salt index formulation is a core fertility product formulated in a ratio favorable for most varieties of turfgrass. Half of the nitrogen is slowly available, which provides a longer, more consistent color response with a lower salt index than traditional fast release nitrogen sources. **RATE: 3-6 oz./1000 sq. ft. in cool season turf, 6-8 oz./1000 sq. ft. in warm season turf, 1 gallon in 100 gallons of water in nursery/ornamentals. Best results are seen when product is watered in. See label for details. 2 x 2.5 gallons/case**



DKP 3-18-18

\$ 54.00 per gallon

DKP 3-18-18 is a high availability foliar nutrient formulation of N-P-K with a low salt index. When timely and adequately applied during the cropping season, it increases plant growth, health, production, rooting and fruit quality. The phosphate is all in the plant-available ortho-phosphate form, allowing for rapid uptake and utilization. This distinctive formulation enhances nutrient availability and allows for enhanced tank mix compatibility in hard water situations. **RATE: 64 oz to 3 gallons/acre in turf, tees, greens and fairways and 1-2 gallons in 100 gallons of water in ornamentals. 2 x 2.5 gallons/case**



AUTOSTART 2-0-2

\$ 48.00 per gallon

Ignition AutoStart is a supplemental liquid fertilizer containing extremophilic plant extracts, amino acids, complex carbohydrates and SAR elicitor compounds. It is designed to enhance nutrient uptake and may enhance a plant's ability to combat stress. AutoStart is a great foundation to any greens or tees program and an excellent product for sports turf fields when seed establishment is challenged by field use. **RATE: 2-4 oz./1000 sq. ft. in turf/tees/greens and fairways, 6-8 oz/1000 sq. ft. for foliar stress recovery, 2.5 gallons per acre for fertigation. See label for details. 2 x 2.5 gallons/case**



IRON PLUS 15-0-0 (6% FE)

\$ 23.50 per gallon in 2.5 gallons

\$ 1,250 per 55 gallon drum

\$ 5,500 per 250 gallon tote

Iron Plus 15-0-0 with 6% Fe is a supplemental nitrogen and iron fertilizer designed to achieve rapid green-up of turf. Although it is formulated to be stable in most tank mixes with commonly used fertilizers and pesticides, always conduct a jar test to confirm compatibility. It uses 15% Urea to open up the plant for quicker uptake and response. **RATE: 2-8 oz./1000 sq. ft. Use a max of 3 oz./1000 sq. ft. when air temperatures exceed 90 degrees. 2 x 2.5 gallons/case, 55 gallon drums or 250 gallon totes**





IRON PLUS EXTREME MICROS

\$ 38.50 per gallon in 2.5 gallons
\$ 950.00 per 30 gallon drum
\$ 7,500.00 per 250 gallon tote

Ignition IRON PLUS EXTREME is just Iron Plus with a micro Pak added for nutrient-deficient turf and soil situations. Use Iron Plus Extreme any time you are looking for a quick color response in any turf situation. **RATE: 2-8 oz./1000 sq. ft. Use a max of 3 oz./1000 sq. ft. when air temperatures exceed 90 degrees** 2 x 2.5 gallons/case, 30 gallon drums or 250 gallon tote



SAPPHIRE LAKE & POND DYE

\$ 60.00 per gallon

Sapphire Lake & Pond Dye is a blend of blue and yellow dyes which shade specific portions of the sunlight spectrum required by underwater aquatic plant and algae growth. This aquablue pond dye creates shading that inhibits photosynthesis in young, bottom growth, and may prevent the development all together if pond color is maintained throughout the early season. **RATE: 1 gallon/4 acre feet 4 x 1 gallons/case**



NEW! NIGHTSHADE LAKE & POND DYE

\$ 60.00 per gallon

Nightshade Lake & Pond Dye is a versatile, easy-to-use, non-toxic water impoundment dye colorant. It mixes completely in water to prevent sunlight penetration. It will not harm fish or wildlife associated with water impoundments. Treated water is safe to use as an irrigation source for all purposes. It reduces and prevents weed and algae formulation in shallow bodies of water. It dyes the water a black color. **RATE: 1 gallon/4 acre feet 4 x 1 gallons/case**



NEW! SPARK ROOT BIOSTIMULANT 14-4-2

\$ 44.00 per gallon in 2.5 gallons
\$ 1,300 per 30 gallon drum

Spark Root Biostimulant fertilizer uses Humic and Fulvic acids, derived from young active Leonardite, black strap molasses and concentrated Ascophyllum nodosum from sea kelp, in combination with a nutrient fertility base, to promote and develop root growth, increase tiller rhizome and stolon production and promote turf stress health throughout the growing season. It is designed for use on residential and commercial turf, athletic fields, golf courses and ornamental applications. **RATE: 48 - 96 oz. per acre or 1.1 - 2.2 oz per 1,000 sq. ft. Apply to actively growing turf in a minimum of 1.5 gallon per 1,000 sq. ft. of spray solution. 2 x 2.5 gallons/case or 30 gallon drums**



POWER N 28-0-0

\$ 37.00 per gallon
\$ 7,400 per 250 gallon tote

Power N is a low salt index supplemental nitrogen fertilizer containing slowly available urea triazone polymer. Of the total nitrogen, 70% is in the slowly available form, providing a safe source of nitrogen that resists volatilization and leaching. **RATE: 4-9 oz./1000 sq. ft. in cool season turf, 6-12 oz./1000 sq. ft. in warm season turf, 1 gallon/100 gallons of water in nursery/ornamentals. Best results are seen when product is watered in. See label for details. 2 x 2.5 gallons/case or 250 gallon totes**



TAKEDOWN DEFOAMER

Spray Tank Defoamer
\$ 27.00 per quart

Takedown anti-foaming agent eliminates unwanted foam in spray applications involving recirculating sprayers and other high-agitation equipment to help ensure even distribution of pest control product applications. Chemicals in the tank will remain active and unaffected by Takedown antifoaming agent, and the high-quality formulation will not clog spray equipment nozzles. **RATE: 1-4 oz./100 gallons 12 x 1 quarts/case**



POWER PHYTE 0-0-30

\$ 62.50 per gallon in 2.5 gallons
\$ 3,355.00 per 55 gallon drum
\$ 9,750.00 per 250 gallon tote

Power Phyte is a formulated phosphite treatment for summer stress in turfgrass that contains potassium phosphite. Thorough coverage of foliage is necessary for best results when used as a foliar treatment. Foliar applications of Power Phyte is intended only as a supplement to a properly designed regular fertilization program and will not by itself provide all the nutrients normally required by turfgrass crops. Avoid foliar applications under extremes of climate or stress. **Rate: 2-3 oz./1000 sq. ft. on greens and tees, 3 oz. on fairways 2 x 2.5 gallons/case 55 gallon drums or 250 gallon totes**



UPLIFT MICRONUTRIENTS

\$ 48.50 per gallon

Uplift is a specialty micronutrient formulation designed to enhance crop yields and increase resistance to environmental stress factors. Foliar applications can assist in rapidly correcting nutrient deficiencies and increasing crop yields. It's comprehensive micronutrient package complexed with an organic acid allows for enhanced absorption and utilization. Uplift is combined with an autolyzed yeast extract full of amino acids, which elicits a systemic acquired resistance within the plant increasing stress resistance and production. Uplift contains Mg, Mn, Fe, Zn, Mo, and B with fulvic acid and humic acid added to enhance nutrient uptake. **RATE: 3-6 oz./1000 sq. ft. as needed for maintenance. For deficiencies, apply 8-12 oz./1000 sq. ft. 2 x 2.5 gallons/case**



POWERSTIK 90-10 NONIONIC SURFACTANT

\$ 37.75 per gallon in 1 gallons
\$ 29.75 per gallon in 2.5 gallons
\$ 855.00 per 30 gallon drum
\$ 6,750.00 per 250 gallon drum

Powerstik is an economical, 90% active, low-foaming, non-ionic activator adjuvant that enhances the performance of a wide range of pesticides by thoroughly wetting pesticide and spreading the active ingredient on the target surface. Powerstik slows the drying time to improve penetration through a waxy or weather-hardened cuticle. A defoaming agent in the formulation eases mixing procedures and speeds load time. **RATE: 1-4 pints/100 gallons of spray solution 4 x 1 gallons, 2 x 2.5 gallons/case, 30 gallon drums or 250 gallon tote**





**GRASS
SEED**



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Superior Performance from
Field to Field to Field

“I’m proud and grateful to win FOTY again in 2022. My crew here deserves all the credit. Their professionalism, hard work, and attention to detail are what make our field second to none. We also couldn't do it without our amazing vendors. HD Sports 2.0 is the best grass I have ever worked with and I'm excited to keep working with it for years to come.”

Dan Farnes, *Director of Fields and Grounds*
America First Field, Real Salt Lake



Landmarkseed.com
High-Quality, Value-Added Seed

Ignition Lawn Mixture is a complete seed mixture, featuring Kentucky bluegrass for wear and traffic tolerance; perennial ryegrass for quick germination and establishment; and fine leaf fescue for drought and shade tolerance. This is a very good mixture that will adapt to a wide range of turfgrass uses. The bluegrass varieties display excellent sun and shade tolerance, as well as good color, density and disease resistance. The ryegrass provides for quick cover to help with recovery. This mixture is a good selection for overseeding medium to dark green home lawns, commercial sites and cemeteries.

- Very quick establishment with Shannon germinating in 7-10 days
- Bluegrass selected for the ability to recover from seasonal stress conditions
- Superior disease resistance (including grey leaf spot)
- Medium to dark green color, which matches very well with existing stands of turf
- Shade tolerance for areas of lawn under canopy of trees

SEEDING RATES

New Seeding: 5-7 lbs./1,000 sq. ft.

Overseeding: 4-6 lbs./1,000 sq. ft.

Overseeding High Use Areas: 5 lbs./1,000 sq. ft. at a weekly/monthly interval

IGNITION LAWN MIX

IGNITION SHADY MIX

Ignition Shady Mix is a versatile mixture of fine fescue, bluegrass and ryegrass. This high quality mixture performs well in medium to deshade areas and will do very well in low maintenance, environmentally sensitive areas. Areas include: home lawns, parks, reclamation, roadsides, cemeteries, golf course roughs and commercial sites. Little to no

maintenance is generally the key to enhancing a higher population of fine fescue.

- Tolerant of heat and cold
- All varieties selected for good performance in shade
- Excellent disease and drought tolerance
- Superior low maintenance qualities
- Performs well in poor quality soils
- Deep-rooted, combining bunch-type fescue and rhizomatous bluegrass

SEEDING RATES

New Seeding: 4-5 lbs./1,000 sq. ft.

Low Maintenance Areas: 2-3 lbs./1,000 sq. ft.

Ignition Signature Elite Bluegrass blend is a very good blend that will adapt to a wide range of turfgrass uses. Signature Elite has a good rate of establishment as well as good color and density. A good choice for sports fields once established, but will also perform well on home lawns and commercial sites, parks, cemeteries and campuses. Available with XALT coating.

- Adapted to a wide-range of turfgrass applications
- Overall outstanding performance in NTEP trial scores
- Excellent heat and stress tolerance
- Early spring green-up, and year-round color retention
- Very quick germination, with Jumpstart and Shannon germinating in 7-10 days

SEEDING RATES

New Seeding: 3 lbs./1,000 sq. ft.

Overseeding: 1 ½ to 2 lbs./1,000 sq. ft.

Overseeding High Use Areas: 4 lbs./1,000 sq. ft. at a weekly/monthly interval

IGNITION SIGNATURE ELITE BLUE

IGNITION PERENNIAL RYEGRASS

Ignition Perennial Ryegrass blend is the ultimate blend for golf courses, as well as parks, cemeteries, home lawns and sports fields where 100% perennial ryegrass is used. All varieties rank very high in their resistance to grey leaf spot, as well as their overall turf qualities. Selected for their dark green color, excellent seedling vigor, and year-round density, the Ignition Perennial Ryegrass Blend is an outstanding option for turfgrass managers.

- Excellent tolerance to grey leaf spot
- Overall outstanding performance in NTEP trial scores
- Excellent heat and stress tolerance
- Superior traffic tolerance
- Very good mowing qualities
- High endophyte levels (natural insect resistance)

SEEDING RATES

New Seeding: 7-9 lbs./1,000 sq. ft.

Overseeding: 3-5 lbs./1,000 sq. ft.

IGNITION SEED BLENDS!

IGNITION TURF TYPE TALL FESCUE

Ignition Turf Type Tall Fescue Blend features varieties that are top rated in the NTEP. They have fine leaf texture, dark green color, excellent wear and traffic tolerance, outstanding disease resistance, and express tillering for a unique ability to repair from damage. This is an excellent blend that will adapt to a wide-range of turfgrass uses. This mixture is a good selection for overseeding existing tall fescue lawns, commercial sites and cemeteries.

- Fine leaf texture compared to traditional tall fescue
- Inherent Rapid Tillering (IRT) provides 360 degrees of tiller expression
- Very quick establishment with germination in 7-10 days
- Lower nitrogen requirements for ideal turfgrass stand
- Superior disease resistance (including brown patch)
- Medium to dark green color, which matches very well with existing stands of turf
- Shade tolerance for areas of lawn under canopy of trees

SEEDING RATES

New Seeding: 8-10 lbs./1,000 sq. ft.

Overseeding: 6-8 lbs./1,000 sq. ft.

Overseeding High Use Areas: 6 lbs./1,000 sq. ft. at a weekly/monthly interval

IGNITION SPORTS TURF 50/50

Ignition Sports Turf 50/50 will adapt to a wide range of turfgrass uses. The bluegrass varieties display excellent sun and shade tolerance, as well as good color, density and disease resistance. The ryegrass provides quick cover to help with recovery. This mixture is a good selection for over-seeding sports turf fields, but is an excellent for overseeding medium to dark green home lawns, commercial sites and cemeteries. This blend is available with XALT coating.

commercial sites and cemeteries. This blend is available with XALT coating.

- Very quick establishment
- Bluegrass selected for aggressive tillering and rhizomes
- Superior disease resistance (including grey leaf spot)
- Medium to dark green color, which matches very well with existing stands of turf

SEEDING RATES

New Seeding: 8-10 lbs./1,000 sq. ft.

Overseeding: 5-7 lbs./1,000 sq. ft.

Overseeding High Use Areas: 6 lbs./1,000 sq. ft. at a weekly/monthly interval

Ignition No-Mow Mixture is a complete seed mixture, designed for non-maintained turf areas in commercial turf and fescue rough areas on golf courses.

The combination of hard, creeping and fine leaf fescue is great for drought and shade tolerance areas. This is a very good mixture that will adapt to a wide range of turfgrass uses. Lighter establishment rates can be used for bank establishment or rough areas on golf courses where thinner stands of turf may be desirable.

- A well-designed fescue blend for hard to maintain areas
- Very drought tolerant blend for unirrigated areas.
- Will grow to 10-14 inches if left uncut.
- Needs to only be mowed a couple of times per year for optimum maintenance
- Shade tolerance for areas of lawn under canopy of trees

SEEDING RATES

New Seeding: 8-10 lbs./1,000 sq. ft., 5-7 lbs for fescue stands on golf courses

Overseeding: 6-8 lbs./1,000 sq. ft.

Overseeding High Use Areas: 6 lbs./1,000 sq. ft. at a weekly/monthly interval

IGNITION NO-MOW FESCUE

IGNITION SPORTS TURF 70/30

Sports Turf MVP 70/30 will adapt to a wide range of turfgrass uses. The bluegrass varieties display excellent sun and shade tolerance, as well as good color, density and disease resistance. The ryegrass provides for quick cover to help with recovery. This mixture is a good selection for over-seeding sports turf fields, but is an excellent selection for overseeding medium to dark green home lawns, commercial sites and cemeteries. This blend is available with XALT coating.

- Bluegrasses selected have aggressive tillering and rhizomes
- Superior disease resistance (including grey leaf spot)
- Reduced nitrogen requirements
- Medium to dark green color, which matches very well with existing stands of turf
- Very quick germination, with Jumpstart and Shannon germinating in 7-10 days

SEEDING RATES

New Seeding: 5-6 lbs./1,000 sq. ft.

Overseeding: 3 lbs./1,000 sq. ft.

Overseeding High Use Areas: 8 lbs./1,000 sq. ft. at a weekly/monthly interval

Ignition Tall Fescue with Kentucky Bluegrass Blend features varieties that are top rated in the NTEP. They have fine leaf texture, dark green color, excellent wear and traffic tolerance, outstanding disease resistance, and express tillering for a unique ability to repair from damage. This is an excellent blend that will adapt to a wide-range of turfgrass uses. This mixture is a good selection for overseeding existing tall fescue lawns, commercial sites and cemeteries. The addition of 5% Kentucky Bluegrass helps with quicker recovery of the turf surface.

IGNITION TURF TYPE WITH BLUE

- Fine leaf texture compared to traditional tall fescue
- Inherent Rapid Tillering (IRT) provides 360 degrees of tiller expression
- Very quick establishment with germination in 7-10 days
- Lower nitrogen requirements for ideal turfgrass stand
- Superior disease resistance (including brown patch)
- Medium to dark green color, which matches very well with existing stands of turf
- Shade tolerance for areas of lawn under canopy of trees

SEEDING RATES

New Seeding: 8-10 lbs./1,000 sq. ft.

Overseeding: 6-8 lbs./1,000 sq. ft.

Overseeding High Use Areas: 6 lbs./1,000 sq. ft. at a weekly/monthly interval

HD Sports 2.0 Plus quickly produces extreme wear and traffic tolerant turf that is fast to recover from hard play and its superior genetics build a remarkable advantage over summer patch and other diseases. With early spring green up and extended fall color, plus full sun and stadium shade performance, HD Sports 2.0 Plus outperforms other blends on cleated sports fields due to the synergy created with superior varieties in this heavy duty Kentucky bluegrass-based blend. Available with XALT coating.

IGNITION HD SPORTS 2.0 PLUS 80/20

- Develops a deep, fibrous root system, an advantage for fast turf recovery from traffic and drought stress.
- Superior wear and traffic tolerance that withstands the abuse of cleated traffic with minimal damage.
- Super Elite varieties selected for uniform dark green genetic color for season long performance.
- Early spring green up provides heavy-duty turf for spring sports.
- Excellent color/growth produces heavy-duty turf through the summer and fall seasons.
- Agronomically formulated for heavy-duty performance. No weak varieties, which erode performance, are ever used to blend down the cost.
- Fine blade, dark green color, high density turf.

SEEDING RATES

New Seeding: 5-6 lbs./1,000 sq. ft.

Overseeding: 3 lbs./1,000 sq. ft.

XALT SEED COATING!!!

D & K Products is please to offer many of its premium grass seed blends with the state of the art **XALT** Seed coating. **XALT** seed Enhancement is a science-based technology that can help seed reach its genetic potential by improving seedling performance.

XALT CONTAINS:

- Nutrients and L-amino acids that stimulate root growth
- Water-absorbent polymer that holds moisture close to the seed for germination
- Apron XL fungicide protection from seedling disease

Blends coated with **XALT** technology require no change in seeding rate as the increased survival rate of the seeding more that compensates for the replacement of seed in a 50 lb. bags. Blends treated with **XALT** offer very little change in cost per bag for non treated blends and the result is incredible.

2024 BLENDS CONTAINING XALT TECHNOLOGY INCLUDE:
Signature Elite, Sport Turf 70/30, Sports Turf 50/50, HD Sports 2.0, HD Sports 2.0 Plus

HD Sports 2.0 produces extreme wear and traffic tolerant turf that is fast to recover from hard play. It's superior genetics build a remarkable advantage over summer patch and other diseases. With early spring green-up and extended fall color, plus full sun and stadium shade performance, HD Sports 2.0 out-performs on cleated sports fields due to the synergy created with superior varieties in this heavy-duty Kentucky bluegrass-based blend. Available with XALT coating.

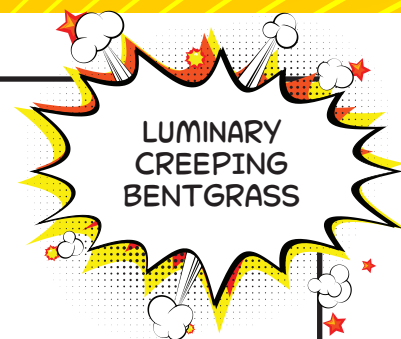
IGNITION HD SPORTS 2.0

- Develops a deep and fibrous root system for fast turf recovery from traffic damage and drought stress.
- Superior wear and traffic tolerance that withstands the abuse of cleated traffic with minimal damage and fast recovery.
- Super Elite varieties selected for uniform dark green genetic color for season long performance.
- Early spring green-up provides heavy-duty turf for spring sports.
- Excellent color/growth produces heavy-duty turf through the summer and fall seasons.
- Agronomically formulated for heavy-duty performance. No weak varieties, which erode performance are ever used to blend down the cost.
- Fine blade, dark green color, high density turf.

SEEDING RATES

New Seeding: 5-6 lbs./1,000 sq. ft.

Overseeding: 3 lbs./1,000 sq. ft.



LUMINARY CREEPING BENTGRASS

Luminary was developed by Dr. Stacy Bonos and Rutgers University from broad genetic-based germplasm. It has exceptional performance across multiple regions, in multiple independent tests.* It has improved resistance to dollar spot & snow mold diseases, saving time, money and improving conditions. It is compatible with older bents & lowers maintenance costs.

APPLICATIONS

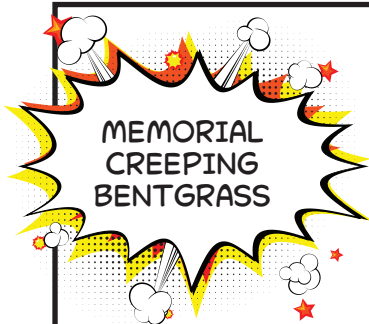
- Putting greens, tees & fairways
- Inter-Seeding: compatible color & texture; blends well with existing turf (avoids the extremes exhibited by other cultivars).
- New construction & renovation: with the latest germplasm and a broad genetic background, Luminary provides superior playing conditions without the risk of added variety specific maintenance.

FEATURES & BENEFITS

- Fine yet durable
- Optimum density
- Versatile for tees & fairways
- Very good summer density
- Reduced fungicide needs
- Brilliant medium green color
- Resilient & wear tolerant with good recovery from ball marks. Not "puffy."
- Early spring green up
- Excellent winter color
- Competitive with *Poa annua*

SEEDING RATES: 1-2 lb./1000 sq. ft. - local conditions vary and dictate rates

BLEND VARIETIES ARE SUBJECT TO CHANGE WITHOUT NOTICE BASED UPON AVAILABILITY!



MEMORIAL CREEPING BENTGRASS

Memorial is outstanding for golf course tees, fairways and putting greens. It's an excellent choice for overseeding into existing bentgrass tees and fairways. Bred at Rutgers University for a fine texture and optimum density, plus improved dollar spot performance, Memorial will compli-

ment and improve "older generation" creeping bentgrass varieties, and is also ideal for improving turf quality and enhancing disease resistance in blends. It is less prone to scalping than the puffy, super-dense bents, and has a medium dark green genetic color that blends well with other grasses. It is an excellent stand-alone variety or as a component of Landmark's CenterCut blend to provide superior performance coupled with genetic diversity.

APPLICATIONS

Tees, fairways, and putting greens.

FEATURES & BENEFITS

- Exceptional fairway, tee & greens turf quality
- Excellent disease resistance
- Not extremely dense; moderately open canopy provides outstanding year-round density
- Less prone to scalping; not puffy

SEEDING RATES

1-2 lb./1000 sq. ft. - local conditions vary and dictate rates

BARENBRUG TURF TYPE

Barenbrug Turf Saver RTF Blend, 50 lb. bag

40% BAR FA 7676 RTF Turf Type Tall Fescue
30% Barvado Turf Type Tall Fescue
30% BarRobusto Turf Type Tall Fescue

Barenbrug Turf Star RPR Blend, 50 lb. bag

35% Barbeta Perennial Ryegrass RPR Type
35% Barlennium Perennial Ryegrass
30% Bargamma Perennial Ryegrass RPR Type

Barenbrug Turf Blue HGT, 50 lb. bag

35% Barvette HGT Kentucky Bluegrass
20% Barimpala Kentucky Bluegrass
20% Jump Start Kentucky Bluegrass
25% Barrister Kentucky Bluegrass

PLEASE CALL FOR CURRENT PRICING ON ALL GRASS SEED VARIETIES!

OTHER BENTGRASS VARIETIES...

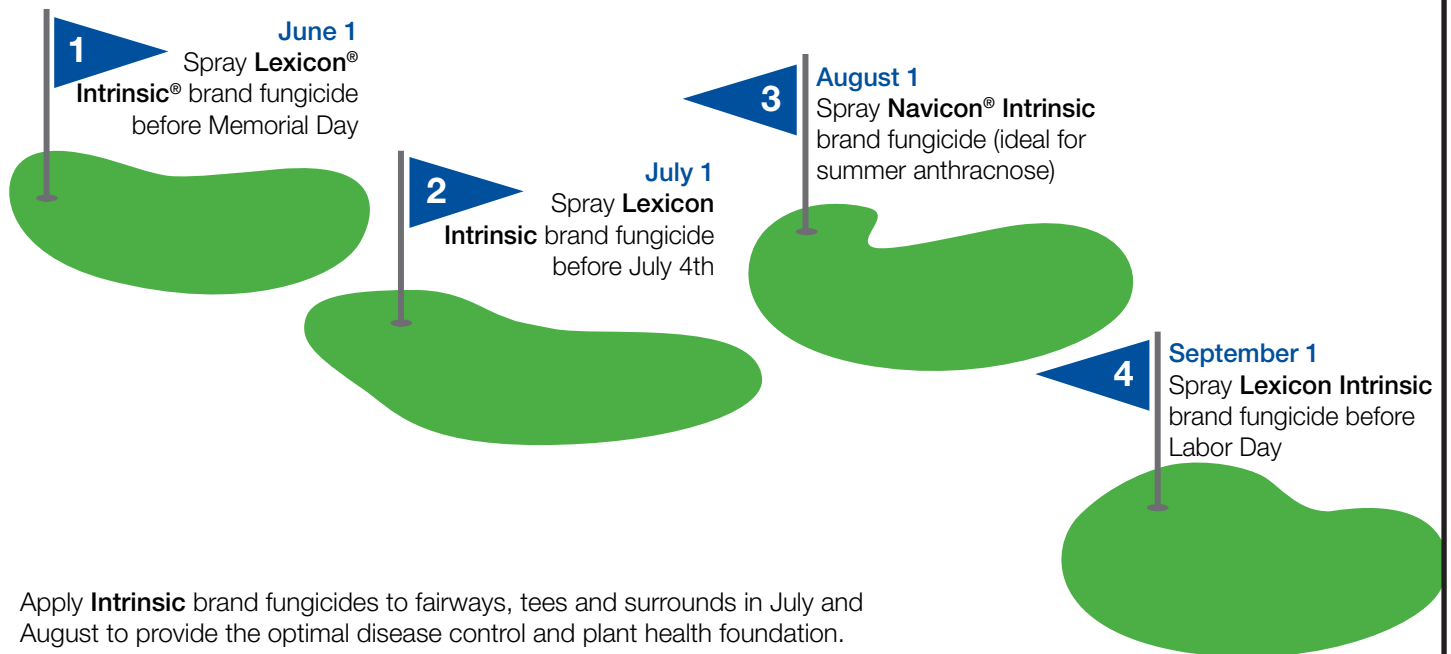
007 Bentgrass, 25 lb. bag
777 Bentgrass, 25 lb. bag
A-4 Bentgrass, 25 lb. bag
Center Cut 50/50 (Memorial Luminary), 25 lb. bag
Dominant Extreme 7, 25 lb. bag
Dominant, 25 lb. bag
L-93 Bentgrass, 25 lb. bag
Luminary Creeping Bentgrass, 25 lb. bag
Memorial Bentgrass, 25 lb. bag
T-1 Bentgrass, 25 lb. bag
Wildflower Mix, 1 lb. bag

The image features a vibrant, comic-style background. The top half is a light red field with a pattern of small, darker red dots. Below this, a series of sharp, triangular rays in shades of orange and yellow radiate from the center, creating a sunburst or explosion effect. In the foreground, a white speech bubble with a thick black border and a jagged, pointed bottom edge is centered. Inside the bubble, the words "ANTI-FUNGI" are written in a bold, black, sans-serif font, stacked on two lines.

**ANTI-
FUNGI**

Holiday Spray Program – Cool Season Guide

The BASF Holiday Spray program is an easy-to-follow agronomic program designed to help your course thrive under the toughest conditions. Apply **Intrinsic®** brand fungicides before major summer holidays to protect your cool-season greens, fairways and tees from heavy disease pressure and summer stressors like heat, humidity and heavy traffic.



July 1 - July 31
Navicon Intrinsic brand fungicide
Honor® Intrinsic brand fungicide
Insignia® Intrinsic brand fungicide



August 15 – September 10
Navicon Intrinsic brand fungicide
(ideal for dollar spot prep)



Cory Bunch
BASF Turf Sales Specialist
515.705.8399
cory.bunch@basf.com



betterturf.basf.us

Always read and follow label directions.

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3336 EG
(Thiophanate-methyl)
Benzimidazole
EPA REG #1001-89 • FRAC 1

\$ 15.00 per lb. *CLOSEOUT PRICE**

***We now offer ArmorTech TMI 2020XL



A brand new extruded granule formulation of Clearys 3336 EG, a low-dust extruded granule with quick dissolve properties, 3336 EG extends many benefits to the user, including easy measuring and mixing. Diseases listed for control are: dollar spot, brown patch, anthracnose, pink snow mold, gray leaf spot, summer patch, ascochyta leaf blight, fusarium blight and necrotic ring spot. 3336 EG can be used in residential turf, commercial turf, golf course and landscape ornamentals. **RATE: 2-6 oz./1000 sq. ft. 4 x 5 lbs/case.**

AFFIRM WDG
(Polyoxin D)
EPA REG #68173-3-10001 • FRAC 19
\$ 820.00 per case



Affirm WDG fungicide offers a unique mode of action to control diseases such as anthracnose and snow mold. It attacks turf disease through both foliar and translaminar systemic activity and can be used as either a preventative or curative. Affirm WDG is labeled for use on several turf diseases, but is best known for its anthracnose, brown patch and snow mold control. It also provides good control of fairy ring. **RATE: 2.4 lbs./acre, 1 oz./1000 sq. ft. with a wetting agent for control of fairy ring. Also labeled for use on ornamentals. 3 x 2.4 lbs/case**

APPEAR II
(Potassium Phosphite)
Phosphonate
EPA REG #100-1451 • FRAC P07
\$ 189.00 per gallon



Appear II fungicide controls important diseases including *Pythium* and anthracnose, while enhancing color, turf quality and stress tolerance. Agronomic programs with Appear II excel when tank-mixed with Daconil Action or Secure Action fungicides. This improved formulation reduces the amount of UV light that penetrates and harms plant cells. It is quickly absorbed to help improve a plant's natural defense system and stimulate quicker recovery from abiotic stress. **RATE: 3-8 fl. oz./1000 sq. ft. See label for details. 2 x 2 gallons/case**

ARMADA 50 WDG
(Trifloxystrobin + Triadimefon)
Strobilurin, Demethylation Inhibitor
EPA REG #432-1513 • FRAC 11 + 3
\$ 107.00 per lb.



Armada 50 WDG offers effective broad-spectrum control for protection against the toughest diseases that affect both turf and ornamentals, helping to reduce the need for inventory. Quick-dissolving granules provide easy measurement for efficient loading of both backpack and large tank applicators. Labeled for the control of anthracnose, brown patch, dollar spot, fairy ring, fusarium patch, gray leaf spot, large patch, leaf spot, pink snow mold, pink patch, rapid blight, red thread, rust, stripe smut, southern blight, summer patch, take-all patch as well as many ornamental diseases. **RATE: 0.6-1.5 oz./1000 sq. ft. 6 x 2 lbs/case**

ASCERNITY
(Benzovindiflupyr + Difenconazole)
EPA REG #100-1477 • FRAC 7 + 3
\$ 497.00 per gallon



Ascernity fungicide combines SOLATENOL® technology (benzovindiflupyr) – an advanced SDHI for golf course turf – and difenoconazole, the proven cooling DMI, to prevent and control several key diseases in cool and warm-season turf including large patch, brown patch and anthracnose with no heat restrictions. **RATE: Apply 1 oz./1,000 sq. ft. twice in the fall on a 28-day interval. Make a third application in the spring when turf growth resumes. 2 x 2 gallons/case**

AZOXY 2SC SELECT
(Azoxystrobin)
EPA REG #89442-21 • FRAC 11
CALL FOR PRICING



Azoxystrobin is recommended for control of anthracnose, brown patch, yellow patch, fusarium patch, gray leaf spot, gray snow mold, leafspot, melting out, necrotic ring spot, pink patch, pink snow mold, pythium blight, pythium root rot, red thread, rhizoctonia large patch, southern blight, spring dead spot, summer patch, take-all patch, and zoysia patch on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields. **RATE: 0.38-0.77 oz./1000 sq. ft. 4 x 1 gallons/case**

BANNER MAXX II
(Propiconazole)
Demethylation Inhibitor
EPA REG #100-1326 • FRAC 3
\$ 255.00 per gallon



A **systemic** fungicide for the control of dollar spot, snow mold, anthracnose, red thread, rust, powdery mildew and summer patch. Banner Maxx has acropetal systemic activity, which means the fungicide moves up the leaf blade to protect the plant from various turf diseases. While Banner Maxx is best known for its control of dollar spot, it also offers excellent control for summer patch and anthracnose. Banner Maxx is also a tank mix partner. **RATE: For dollar spot 1 oz./1000 sq. ft. in 14 day intervals or 2 oz./1000 sq. ft. in 28 day intervals if used alone. 2 x 1 gallons/case**

BANOL
(Propamocarb)
Carbamate
EPA REG #432-942 • FRAC 28
\$ 491.50 per gallon in 2.5 gallons
\$ 725.00 per gallon in 1 gallon



Banol is a **systemic** fungicide that is one of the better, effective fungicides for the control of pythium on a preventative and curative basis. Because it uses a multi-site mode of action, Banol has never had a documented case of pythium resistance. Apply as a preventative treatment during periods of high temperature and humidity favorable to the development of pythium blight. **RATE: 1/13-2 oz. preventative, 3-4 oz. curative. 24-36 hours is needed for Banol to enter the plant and start working. 2 x 1 gallons or 2 x 2.5 gallons/case**

FUNGICIDES!

BRISKWAY
(Azoxytrobin+Difenoconazole)
Strobilurin, Demethylation Inhibitor
EPA REG #100-1433 • FRAC 11 + 3
\$ 1,457.00 per gallon



Briskway is a new broad-spectrum fungicide for prevention and control of certain diseases in golf course turfgrasses only. Briskway is labeled for the control and prevention of summer patch, leaf spot, take-all patch, rust, necrotic ring spot, powdery mildew, red thread, fairy ring, fusarium patch, gray leaf spot, yellow patch, cool season brown patch, brown patch, anthracnose and dollar spot. Briskway is an excellent choice for greens sprays and great in rotation with other fungicides for resistance management.
RATE: 0.3-0.725 oz./1000 sq. ft. 2 x 1 gallons/case

CHIPCO 26GT FLOWABLE
(Iprodione)
Dicarboximide
EPA REG #432-888 • FRAC 2
\$ 270.00 per gallon



Chipco GT has the unique properties of being both a contact and a local systemic fungicide. This formulation gives you quicker control of the disease with quicker uptake into the plant compared to 26019 (see next product below) and all other generic Iprodione products. 26 GT will start to control mycelium within 24 hours of application, which is 3 times faster than the generic formulations. Chipco GT is a foliar applied fungicide for the prevention and control of dollar spot, brown patch, leaf spot, and fusarium patch.
RATE: 3-4 oz./1000 sq. ft. for dollar spot and leaf spot. 2 x 2.5 gallons/case.

CHIPCO 26019
(Iprodione)
Dicarboximide
EPA REG #432-888 • FRAC 2
\$ 135.00 per gallon



The original formulation of Chipco 26GT for budget sensitive applications. Chipco 26019 should be used as a tank mix partner for better control of turf diseases.
RATE: 3-4 oz./1000 sq. ft. for dollar spot and leaf spot. 2 x 2.5 gallons/case

CHIPCO SIGNATURE
(Fosetyl Al)
Phosphonate
EPA REG #432-890 • FRAC 33
\$ 1,570.00 per 44 lb. case *WHILE SUPPLIES LAST
\$ 392.50 per 11 lb bottle



Chipco Signature is different from other fungicides in that it is truly systemic, traveling up and down within the plant. This product is the foundation turf fungicide for disease management and turf quality in every season. Chipco Signature protects turf from stresses during summer and winter decline, and it improves turf quality: color, density, vigor, uniformity and playability. For pythium control, it should be alternated with Subdue, Banol, Segway or Stellar in a spray program.
RATE: 4 oz./1000 sq. ft. in sufficient water at 14 day intervals. 8 x 5.5 lb case (discontinued) or 4 x 11 lb/case

CHLOROTHALONIL 720 SFT
(Chlorothalonil)
EPA REG #66222-154 • FRAC M5
\$ 75.00 per gallon



Chlorothalonil 720 SFT is economical, cost-effective, broad-spectrum disease control for cool and warm season grasses, trees, shrubs, and flowers. It's an excellent tank mix partner with most other fungicides. It's labeled for use on cool and warm season grasses and on all labeled ornamentals. Contact mode of action for quick results. Multi-Site activity means no disease resistance with repeated use.
RATE: 2.125-7.66 oz./1000 sq. ft. 2 x 2.5 gallons/case

CHLOROTHALONIL DF
(Chlorothalonil)
EPA REG #66222-149 • FRAC MS
\$ 15.00 per lb.



Features preventative disease protection with multi-site activity which means no resistance with repeated use. Excellent tank mix partner with most other fungicides. Labeled for use on cool and warm season grasses and on all labeled ornamentals. Contact mode of action for quick results. Easy to use dry flowable formulation.
RATE: 5-10 lbs./acre 4 x 5 lb/case

CONCERT II
(Chlorothalonil +Propiconazole)
Nitrile, Demethylation Inhibitor
EPA REG #100-1347 • FRAC M5 + 3
\$ 107.00 per gallon



The power of two fungicides now together as one. Syngenta has combined Banner Maxx along with Daconil to produce one of the most commonly used tank mixes in one product. Concert II is a combination of contact and systemic fungicides that provides broad spectrum control of many important plant diseases. Concert II is labeled for the control and prevention of many turf diseases, including: anthracnose, brown patch, dollar spot, fusarium patch, rust and many more.
RATE: 3-5.5 oz./1000 sq. ft. 2 x 2.5 gallons/case

CUPRO 5000
(Copper Hydroxide)
Nitrile, Demethylation Inhibitor
EPA REG #80289-2-67690
\$ 25.00 per lb.



CuPRO 5000 is an advanced copper fungicide/bactericide technology that delivers excellent disease control with all the advantages of a dry flowable: decreased handling, decreased dust exposure, easier packaging, and shortened loading times. Featuring fine, irregularly-shaped particles, it's formulation delivers a greater surface area on which cupric ions can be stored and then released on the leaf surface, providing maximum coverage. The formulation dissolves easily for convenient mixing and application.
RATE: 1.5-5 lbs./100 gallons 8 x 3 lbs/case

DACONIL ACTION (Chlorothalonil +Acibenzolar)

Nitrile
EPA REG #100-1364 • FRAC M5 + P1
\$ 106.00 per gallon

Daconil Action is a contact fungicide with a systemic compound used for the control and suppression of disease through induction of host plant resistance. It exhibits an additional unique mode of action, which mimics the natural systemic activated resistance (SAR) response found in most plant species. This SAR response does not involve direct activity against the target pathogens. Daconil Action results are best when used in multiple applications so that the Acibenzolar response can be fully stimulated. Daconil Action can be used for the prevention and control of dollar spot, leaf spot, brown patch, gray leaf spot, red thread, anthracnose, rust, fusarium patch, gray snow mold and algae. **RATE: 2-5.4 oz./1000 sq. ft. SEASONAL CHLOROTHALONIL CAPS APPLY TO THIS PRODUCT.**

2 x 2.5 gallons/case



DACONIL WEATHERSTIK (Chlorothalonil)

Nitrile
EPA REG #50534-209-100 • FRAC M5
\$ 84.00 per gallon

A contact fungicide for the control of several turf diseases. Daconil Weatherstik is a 6 lb. active per gallon, compared to the generic products which are only a 4 lb. active. Daconil Weatherstik can be used for the prevention and control of dollar spot, leaf spot, brown patch, gray leaf spot, red thread, anthracnose, rust, fusarium patch, gray snow mold and algae. Daconil Weatherstik also contains a sticking agent that keeps the fungicide on the plant where it needs to be, unlike the generics. **RATE: 2.125-7.66 oz./1000 sq. ft. SEASONAL CHLOROTHALONIL CAPS APPLY TO THIS PRODUCT. 2 x 2.5 gallons/case**



DACONIL ACTION & APPEAR II MULTIPAK

\$ 454.00 per case

Combination package of Daconil Action and Appear for additional savings. *Each case contains a 1.19 gallon jug of Daconil Action and 2 gallons of Appear.*



DACONIL ZN (Chlorothalonil)

Nitrile
EPA REG #50534-211-100 • FRAC M5
\$ 87.00 per gallon

Daconil ZN is a 4 lb. flowable formulation of Daconil with zinc added as a micronutrient for zinc-deficient plants. The added zinc makes Daconil ZN a better formulation for algae and moss control. **RATE: 3-6 oz. preventative, 6-11 oz. curative. SEASONAL CHLOROTHALONIL CAPS APPLY TO THIS PRODUCT. 2 x 2.5 gallons/case**



DACONIL ACTION & BANNER MAXX MULTIPAK

\$ 468.00 per case

Combination package of Daconil Action and Banner Maxx for additional savings. *Each case contains 1- 2.5 gallon jug of Daconil Action and 1 gallon of Banner Maxx.*



**DENSICOR
(Prothioconazole)
EPA REG #432-1612 • FRAC 3
\$ 725.00 per bottle**

Densicor is a powerful DMI fungicide that provides next-level control of dollar spot, brown patch, anthracnose, gray leaf spot, snow mold and other harmful diseases without thinning your turf. In addition to offering a one-product solution to the toughest diseases, Densicor also features an excellent turf safety profile, ultra-low use rate, convenient packaging and is affordable so it can be used across fairways, tees and greens. **RATE: 8.5 fl. oz./acre on a 14-21 day interval. Do not exceed 8.5 oz. per application or 25.6 fl. oz. per year. 8 x 51 oz. bottles/case**



DACONIL ACTION & HERITAGE ACTION MULTIPAK

\$ 878.00 per case

Combination package of Daconil Action and Heritage Action for additional savings. *Each case contains 1- 2.5 gallon jug of Daconil Action and 2, 1 lb. bags of Heritage Action.*



**DITHANE 75 DF RAINSHIELD
(Mancozeb)
Carbamate
EPA REG #62719-402 • FRAC M3
\$ 15.00 per lb. ***CLOSEOUT PRICE**

Dithane 75DF Rainshield specialty fungicide is a broad-spectrum protectant fungicide labeled for use on outdoor or greenhouse-grown crops. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program. For use on sod farms, golf courses, industrial and commercial lawns. Not for use on residential or athletic turf. Does not contain the green dye that Fore WP contains. **RATE: 4-8 oz./1000 sq. ft. 4 x 12 lbs/case**



DACONIL ULTREX (Chlorothalonil)

Nitrile
EPA REG #50534-202-100 • FRAC M5
\$ 17.00 per lb

A 82.5% water dispersible granule formulation that is easy to handle. It goes into solution the instant it is mixed with water. Daconil Ultrex is Daconil Weatherstik. It can be used for the prevention and control of dollar spot, leaf spot, brown patch, gray leaf spot, red thread, anthracnose, rust, fusarium patch, gray snow mold and algae. However, if being used for snow mold prevention, Daconil Weatherstik is a better choice for its increased sticking power to the leaf tissue. **RATE: 5-10 lbs./acre. See label for details. SEASONAL CHLOROTHALONIL CAPS APPLY TO THIS PRODUCT. 4 x 5 lb/case.**



FUNGICIDES!

DORADO
(Propiconazole)
EPA REG #100-741
\$ 99.00 per gallon

Dorado Fungicide is a generic form of Banner Maxx II Fungicide that contains 14.3% Propiconazole. Dorado Fungicide controls rusts, powdery mildews, scabs, blights, and leaf spots. It works systemically to protect nursery plantings, landscape plantings, and ornamentals. See label for a complete list of diseases and use sites. **Rate: 0.5-4 oz./1000 sq. ft. 2 x 2 gallons/case**



EMERALD
(Boscalid)
Anilene
EPA REG #7969-196 • FRAC 7
\$ 118.74 per .49 lb.

Emerald fungicide provides excellent preventative control of dollar spot. It is effective against strains of dollar spot resistant to other turfgrass fungicides. It is advised that it be applied no more than twice in a row without rotating off to another fungicide to avoid resistancy issues. Emerald should be used when dollar spot pressure is at the greatest point in the growing season. **RATE: 0.13-0.18 oz./1000 sq. ft. (preventative applications of 0.18 oz. should get you 28 day control of dollar spot). 2 gallons of water/1000 sq. ft. is recommended. 10 x 0.49 lb case**



EAGLE 20EW
(Myclobutanil)
Demethylation Inhibitor
EPA REG #62719-463 • FRAC 3
\$ 250.00 per gallon
\$ 64.00 per pint

A liquid formulation of Eagle Brand fungicide. Eagle 20 EW is a systemic protectant and curative fungicide for disease control in turfgrass (including fairways, roughs, tee boxes, and greens), landscape ornamentals, greenhouse and nursery ornamentals, apples, stone fruit and grapes. **Rate: 1.2-2.4 oz./1000 sq. ft. 4 x 1 gallon/case or pints**



ENCARTIS
(Boscalid)
Chlorothalonil
EPA REG #7969-348 • FRAC 7 + M5
\$ 129.13 per gallon

Encartis fungicide pairs the strength of Boscalid (the active ingredient in Emerald) and chlorothalonil in the perfect ratio to provide preventive and curative activity on warm- and cool-season turf. The advanced dual-active solution gives powerful, long lasting control for up to 28 days and helps you maintain healthier, disease-free playing conditions. While perfect for fairways, It can be used anywhere on the golf course, including tees and greens, any time of the year to control key diseases. **RATE: 3-4 oz./1000 sq. ft. 2 x 2.5 gallons/case**



ECHO 720
(Chlorothalonil)
Tetrachloroisophthalonitrile
EPA REG #60063-7 • FRAC M5
\$ 75.00 per gallon

Echo 720 is a professional fungicide for commercial turfgrass on golf course greens, tees and fairways, and sod farms. It is also for commercial conifer farms and greenhouse ornamental plants, including broadleaf shrubs and trees, along with flowering plants and blubs, and foliage plants. It controls many of the most common diseases, including dollar spot, brown patch, leaf spot, stem rust for turfgrass, leaf spots, foliar blights, flower blights, flower spots, powdery mildews and rust. **RATE: 2 1/8-7 2/3 oz./1000 sq. ft. 2 x 2.5 gallons/case**



EXTERIS STRESSGARD
(Fluopyram + Trioxystrobin)
Anilene, Strobilurin
EPA REG # 432-1536 • FRAC 7+11
\$ 143.30 per gallon

Exteris Stressgard combines an SDHI active ingredient (fluopyram) with a proven QoI partner (trifloxystrobin) to deliver broad-spectrum disease control on golf greens, tees and fairways. Thanks to dual-stacked formulation enhancements including Stressgard® Formulation Technology, this product delivers increased plant health benefits and improved turf quality. It offers preventative and curative activity to control key turfgrass diseases across a wide range of spray volumes. It dries and is absorbed quickly, and features properties that yields dew mitigation under certain conditions. It has demonstrated excellent tank-mix compatibility with a number of other turf products (check label for complete list) making it simple to integrate into your current disease program. Labeled for the control of dollar spot, anthracnose, brown patch, pink snow mold, rust and grey leaf spot. **RATE: 1.5-6 oz./1000 sq. ft. 2 x 2.5 gallons/case**



ECHO ULTIMATE ETQ
(Chlorothalonil)
Tetrachloroisophthalonitrile
EPA REG #60063-36 • FRAC M5
\$ 17.00 per lb.

Echo Ultimate ETQ is available from SipcamAdvan. The active ingredient Chlorothalonil is comparable to Daconil Ultrex®. It is a proven, long-residual contact fungicide that protects turf and ornamentals from more than 75 diseases. It has no resistance issues and naturally adheres to the plant surface. It is ideal for use with newer fungicides to manage their resistance and broaden their disease-control spectrum. **RATE: 5-10 lbs./acre 4 x 5 lb/case**



FAME + C
(Fluoxastrobin + Chlorothalonil)
Strobilurin, Nitrile
EPA REG #66330-379-279 • FRAC 11+M5
\$ 225.60 per gallon

Fame + C provides the broadest-spectrum unsurpassed protection against thirty widely prevalent diseases, plus two proven modes of activity on dollar spot. The combination of Fluoxastrobin and Chlorothalonil product provides a built-in resistance management strategy while enhancing the activity of each active ingredient against difficult to control turf pathogens. **RATE: 3-5 fl. oz./1000 sq. ft. 2 x 2.5 gallons/case**



FAME SC
(Fluoxastrobin)
Strobilurin
EPA REG #66330-64-279 • FRAC 11
\$ 455.00 per pint
\$ 1,610.00 per 64 oz.



Fame SC Fungicide provides protection from all major patch, spot, and mold diseases at a competitive cost per acre, so you can use it anywhere on your course. Fame SC is an ideal fit as a foundation Strobilurin fungicide, used alone or tank-mixed with DMI or contact products to control all major turfgrass diseases, including anthracnose, brown patch, zoysia patch, summer patch, gray leaf spot, and pythium. Fame SC Fungicide is labeled for control of light-to-moderate infestation of dollar spot. **RATE: 0.18-0.36 fl. oz./1000 sq. ft. 4 x 16 oz./case or 4 x 64 oz**

FIATA STRESSGARD
(Phosphorous acid)
Phosphonate
EPA REG #432-1522 • FRAC 33
\$ 75.88 per gallon



Fiata is a systemic fungicide and booster of plant defense mechanisms that is used for the suppression of pythium blight and damping off diseases of turfgrass on sod farms, golf courses, sports fields, parks, residential and commercial sites. This combination of phosphorous acid and Stressgard Technology offers a different option than just the phosphite products alone by adding extending control. **RATE: 5-15 oz./1000 sq. ft. 2 x 2.5 gallons per case**

FLUAZINAM 40 SC SELECT
(Fluazinam)
EPA REG #89442-37 • FRAC 29
CALL FOR PRICING



Fluazinam 40SC Select is a broad-spectrum, multi-site fungicide to control diseases in turf grasses on golf courses only. The active ingredient, fluazinam, is the only registered fungicide for turf in FRAC group 29. It has no known resistance and as a multi-site contact, it has a very low risk of developing resistance. Fluazinam 40SC Select, when partnered with chlorothalonil-based fungicides, provides season-long protection against the toughest turf diseases without interruptions. **RATE: 0.5 oz./1000 sq. ft. 2 x 2.5 gallons or 4 x .50 gallon/case**

FORE 80 WP RAINSHIELD
(Mancozeb)
Carbamate
EPA REG #62719-388 • FRAC M3
\$ 15.00 per lb. *CLOSEOUT PRICE**



A broad-spectrum contact fungicide in water-soluble packaging. Fore is used for immediate short term control of brown patch, dollar spot, rust, helminthosporium, fusarium blight, pythium and turf algae. Fore is a great tank mix product with systemics. **RATE: 4-8 oz./1000 sq. ft. 8 x 4 x 1.5 lb./case**

HEADWAY
(Azoxystrobin + Propiconazole)
Strobilurin, Demethylation Inhibitor
EPA REG #100-1216 • FRAC 11+3
\$ 536.00 per gallon



Headway fungicide combines the power of the two active ingredients, found in Heritage and Banner Maxx II fungicides, to deliver broad-spectrum disease control against dollar spot, brown patch, and other major turf diseases. Formulated to balance each active ingredient for control and optimum efficacy. Dual modes of action help ward off disease resistance and control a wide range of diseases. **RATE: For spot treatments, use 1.5 fl. oz./1-2 gallons of water. 2 x 1 gallons per case**

HEADWAY G
(Azoxystrobin + Propiconazole)
Strobilurin, Demethylation Inhibitor
EPA REG #100-1378 • FRAC 11+3
\$ 110.00 per bag



A granular formulation of Headway fungicide for quick spot applications on the golf course, and easy to use applications in lawn care. Headway G is an excellent choice for preventative snow mold applications in situations where a liquid application is no possible late in the Fall. **RATE: 2-4 lbs./1000 sq. ft. for all applications except snow mold. Preventative snow mold rate is 5 lbs./1000 sq. ft. 30 lb. bag**

HERITAGE ACTION
(Azoxystrobin + Acibenzolar-S-Methyl)
Strobilurin
EPA REG #100-1550 • FRAC 11 + P1
\$ 378.00 per lb.



Heritage Action offers hybrid technology for enhanced biotic and abiotic stress management. It's a broad-spectrum, systemic fungicide for the prevention and control of turf diseases on golf courses, sod farms, institutional, commercial and industrial buildings, and athletic fields. It contains two active ingredients that work together to control disease while protecting turf from abiotic stress like heat and drought. **RATE: 0.2-0.4 fl. oz./1000 sq. ft. 6 x 1 lb/case**

HERITAGE ACTION + VELISTA MULTIPAK
\$ 1,793.00 per case

A new combination pak for additional savings. Each Multipak contains 3 - 1 lb. of Heritage Action and 3 - 22 oz. Velista fungicide. A great pak for take-all patch, anthracnose, and dollar spot control.



HERITAGE ACTION + DIVANEM MULTIPAK
\$ 3,404.00 per case

A new combination pak for additional savings. Each Multipak contains 1 - 0.5 gallon of Divanem and 1 x 1 lb. of Heritage Action. A great pak for nematodes as well as diseases and abiotic stress.



FUNGICIDES!

HERITAGE G
(Azoxystrobin)
Strobilurin
EPA REG #100-1323 • FRAC 11
\$ 105.00 per bag

Heritage G is a granular fungicide for use on turf and provides the same long-lasting broad-spectrum control of turfgrass diseases, including brown patch, anthracnose and take-all patch. Heritage G is perfect for operations that want to provide top-notch disease control, without the attributes of a liquid fungicide or when weather conditions prevent spraying. By using a highly water-soluble carrier, Heritage G is able to provide the effectiveness of a sprayable with the convenience of a granular. **RATE: 2-4 lbs./1000 sq. ft. 30 lb. bag**



INSIGNIA SC INTRINSIC
(Pyraclostrobin)
Strobilurin
EPA REG #7969-290 • FRAC 11
\$ 542.29 per 30.5 oz.
\$ 1,445.02 per gallon in 2.5 gallons

Research shows turf treated with Insignia shows improved stress management, including drought/moisture, temperature extremes and mechanical stress. Research also shows turf treated with Insignia has increased root length and density. It is labeled for anthracnose, bentgrass dead spot, brown patch, brown ring patch, fairy ring, fusarium patch, gray leaf spot, gray snow mold, leaf spot, necrotic ring spot, pythium blight, pythium root dysfunction, rust, summer patch, take-all patch, yellow tuft to name a few. **RATE: 0.4-0.7 oz./1000 sq. ft. 4 x 30.5 oz. or 2 x 2.5 gallon/case**



HERITAGE TL
(Azoxystrobin)
Strobilurin
EPA REG #100-1191 • FRAC 11
\$ 602.00 per gallon

A MEC formulation that adds increased flexibility to the Heritage family. The active ingredient is 1000 times finer in particle size, which allows faster entry into the plant, providing even quicker knockdown of many diseases. Heritage TL also provides superior root disease control because of faster entry into roots before diseases like take-all and summer patch have a chance. **RATE: 1-2 oz./1000 sq. ft. Refer to the label for details. 2 x 1 gallon/case**



INSTRATA
(Chlorothalonil, Propiconazole, Fludioxonil)
Nitrile, Demethylation Inhibitor, Phenylpyrrole
EPA REG #100-1231 • FRAC M5 + 3 + 12
\$ 188.00 per gallon

A powerful combination fungicide from Syngenta. Instrata combines the power of Daconil, Banner and Medallion to give you a fungicide that gives broad-spectrum control of several turf diseases, including but not limited to, anthracnose, brown patch, dollar spot, gray leaf spot and summer patch. Instrata is best known for its preventative control of pink and gray snow mold. **RATE: 2.75-6 oz. most all diseases, 8-11 oz. for snow mold. 2 x 2.5 gallons/case**



HERITAGE WDG 6 X 1
(Azoxystrobin)
Strobilurin
EPA REG #100-1093 • FRAC 11
\$ 367.00 per lb.

The original standard formulation of Heritage. Heritage fungicide is a systemic fungicide for use on turf. It is a great fungicide for the long-term control of brown patch, grey leaf spot and snow mold. It is also one of the best products for preventative use on summer patch and take-all patch. Heritage has no activity on dollar spot, so when dollar spot is present, a dollar spot fungicide must be tank mixed with Heritage. **Rate: 0.2-0.4 oz./1000 sq. ft. Sold by the lb. in 6 x 1 lb/case**



INTERFACE STRESSGARD
(Iprodione + Trifloxystrobin)
Dicarboximide, Strobilurin
EPA REG #432-1505 • FRAC 2 + 11
\$ 224.40 per gallon

A combination product from Bayer that offers the contact systemic control of Chipco 26GT with the extended control of Compass fungicide along with Bayer Stressgard technology for increased plant health. Interface Stressgard is labeled for use on dollar spot, brown patch, leaf spot, fusarium patch, as well as pink and gray snow mold. Interface is a great snow mold control when mixed with Triton Flo. **RATE: 3-7 oz./1000 sq. ft. 2 x 2.5 gallons/case**



HONOR INTRINSIC
(Pyraclostrobin + Boscalid)
Strobilurin, Anilene
EPA REG #7969-255 • FRAC 11+7
\$ 183.53 per lb. in 3 lb containers
\$ 4867.20 per 36 lb drums

Honor Intrinsic brand fungicide is a combination of pyraclostrobin, the active ingredient in Insignia fungicide, and boscalid, the active ingredient in Emerald fungicide. This new pre-mix provides two modes of action and delivers unsurpassed control of the top diseases that Superintendents battle, such as dollar spot, fairy ring, anthracnose, patch diseases (brown, take-all, and summer), leaf spots and many others. Intrinsic is a brand of products from BASF that provide disease control and plant health benefits. **RATE: 0.55-1.1 oz./1000 sq. ft. 6 x 3 lb/case or 36 lb drum**



KABUTO
(Isfetamid)
Anilene
EPA REG #71512-23-2217 • FRAC 7
\$ 110.00 per 21.8 oz. bottle *WHILE SUPPLIES LAST
\$ 645.00 per gallon

Kabuto Fungicide SC is a new proprietary liquid formulation to control dollar spot diseases in turfgrass. It is proven in university research and end-user trials to provide preventative and curative dollar spot control, including control of carboxamide resistant dollar spot. It inhibits all stages of development in the fungal lifecycle, and can be applied up to eight times per year with no resistance issues. **RATE: 0.4-0.5 fl. oz. per acre 6 x 21.8 oz. or 4 x 1 gallons/case**



KALIDA

(Fluindapyr + Flutriafol)
EPA REG #279-3641 • FRAC 7 + 3
\$ 825.00 per 64 oz. bottle



Kalida Fungicide combines the active ingredients fluindapyr (a novel SDHI) and flutriafol (next-generation DMI) into a powerful duo. With proven turf safety and dual modes of action, Kalida can tackle bipolaris leaf spot, take-all root rot, large patch and other labeled diseases in a variety of warm-season turfgrasses and anthracnose, fairy ring, dollar spot, brown patch and other labeled diseases in cool-season turfgrasses.

RATE: 0.25-0.40 fl. oz./1000 sq. ft. 4 x 64 oz. bottles/case

KARMA

(Propamocarb Hydrochloride)
EPA REG #279-3641 • FRAC 28
\$ 330.00 per gallon *CLOSEOUT PRICE**

Avoid the devastation of Pythium by treating your turf early and being rewarded later. That's the power of Karma™. This highly systemic fungicide delivers maximum returns when used as a preventative in early spring, but it can also be used as a curative treatment in the summer. It can be applied following germination or to established turf, and is suitable for tank-mixing to broaden the disease-control spectrum. A multi-site mode of action also makes it an excellent resistance management tool on golf courses and sports turf. **RATE: 1.3-2 fl.oz in 2-5 gallons of water for preventative treatment, 3-4 fl.oz. in 2-5 gallons of water for curative treatment. 2 x 1 gallons/case**

LEXICON

(Fluxapyroxad + Pyraclostrobin)
Anilene, Strobilurin
EPA REG #7969-350 • FRAC 7 + 21
\$ 604.59 per 21 oz. bottle



Lexicon combines Insignia SC with Xzemplar fungicide to provide excellent control of anthracnose, brown patch, dollar spot, fairy ring, gray leaf spot, summer patch, leaf spots and take-all patch. It is labeled for use on golf courses, sports fields, parks, residential lawns, sod farms, and cemeteries. It is an excellent greens program product, as it provides up to 28 days control at the high rate. It is recommended not to apply more than two sequential applications of Lexicon or any of its components. Do not reapply Lexicon until after another non-strobilurin fungicide has been used. This is a must-have product in any fungicide spray program. **RATE: 0.37-0.47 fl. oz./1000 sq. ft. 4 x 21 oz. bottles/case**

MANZATE MAX T & O

(Mancozeb)
Manganese, Zinc, Ethylenebisdithiocarbamate ion
EPA REG #70506-194
\$ 100.00 per gallon



Manzate Pro-Stick T&O is a Flowable formulation of the broad-spectrum protectant fungicide which provides control for most common turfgrass diseases and many fungal diseases of certain ornamentals. Disease of turfgrasses and ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable turfgrass and ornamental plants. **RATE: 5-14 oz./1000 sq. ft. 2 x 2.5 gallons/case**

MAXTIMA

(Mefentrifluconazole)
Mefentrifluconazole
EPA REG #7969-404 • FRAC 3
\$ 901.68 per gallon
\$ 226.98 per 26 oz. bottle



Maxtima fungicide is a cutting-edge new DMI that can safely and affordably be sprayed at any temperature, on any turf variety. It's cost-effective for fairways and can be used anywhere on your course – on any turf – to help ensure disease-free playing conditions all year long. Maxtima fungicide controls the toughest diseases including: dollar spot, anthracnose, summer patch, fairy ring, spring dead spot, take-all root rot. Maxtima is effective against DMI resistant disease strains! **RATE: 0.2-0.8 oz./1000 sq. ft. 2 x 2.5 gallons or 4 x 26 oz. bottles/case**

MEDALLION SC

(Fludioxonil)
Phenylpyrrole
EPA REG #100-1448 • FRAC 12
\$ 685.00 per gallon



A new suspended crystal formulation of Medallion WP designed for quicker uptake and control of certain foliar, stem and root diseases in turfgrass, including golf courses, institutional, commercial and residential lawns, sod farms, sports fields, parks, municipal grounds and cemeteries. It is labeled for anthracnose, brown patch, leaf spot, summer patch, yellow patch, pink and gray snow mold, fusarium patch, and gray leaf spot. **RATE: 0.75-2 fl. oz./1000 sq. ft. 2 x 1 gallons/case**

MEFENOXAM 2 AQ

(Mefenoxam)
Phenylamide
EPA REG #66222-216 • FRAC 4
\$ 480.00 per gallon in 1 gallon
\$ 470.00 per gallon in 2.5 gallons



Mefenoxam 2 AQ is a post patent water-based efenoxam formulation featuring low odor. Mefenoxam's systemic mode of action and translocation through the plant can provide up to 3 weeks protection. For use on nursery, greenhouse, turf and trees. Effective against pythium, phytophthora, yellow tuft, and downy mildew. **RATE: 1.23-2.45 fl. oz./1000 sq. ft. 2 x 1 gallons or 2 x 2.5 gallons/case**

MIRAGE STRESSGARD

(Tebuconazole)
Demethylation Inhibitor
EPA REG #432-1529 • FRAC 3
\$ 194.88 per gallon



Mirage Stressgard is a broad-spectrum fungicide for the control of many turf diseases on golf course turf only. With Bayer's Stressgard technology added, Mirage becomes an excellent economical choice for use on fairways, greens and tees for diseases such as anthracnose, brown patch, dollar spot, fairy ring, gray leaf spot, summer patch, leaf spot, take-all patch, gray and pink snow mold, red thread, rust, and take-all root rot. Mirage is an excellent tank mix partner for preventative snow mold control in the fall. **RATE: 1-2 oz., not to exceed 6.5 oz./1000 sq. ft. annually 2 x 2.5 gallons/case**

FUNGICIDES!

MYCLOBUTANIL 20 EW
(Myclobutanil)
Demethylation Inhibitor
EPA REG #66222-185 • FRAC 3
\$ 178.00 per gallon

Myclobutanil is a post-patent formulation that is a systemic, preventative and curative fungicide for the control of many diseases in established turf (residential and commercial lawns, turf, golf course fairways, greens and roughs), landscape ornamentals and nursery/greenhouse ornamentals. Effective treatment for dollar spot, anthracnose, spring dead spot, brown patch, summer patch, powdery mildew, rust, and necrotic ring spot. **RATE: 1.0-2.4 fl. oz./1000 sq. ft. 2 x 1 gallons/case**



PINPOINT
(Mandestrobin)
Strobilurin
EPA REG # 59639-199 • FRAC 11
\$ 481.00 per 60 oz. bottle

Pinpoint Fungicide is a new tactical advantage in the battle against dollar spot. Optimized for early through late-season control, Pinpoint enhances existing disease management programs with a surgical strike against dollar spot. This excellent rotation partner offers proven performance in university trails and delivers a unique, targeted active ingredient to help maintain spotless turf. Pinpoint also delivers excellent turf tolerance. Labeled for the control of Dollar Spot, Brown patch, Fairy Ring and Take-all Patch. **RATE: 7.4-13.5 oz./acre 6 x 60 oz. per case**



NAVICON
(Mefentrifluconazole, Pyraclostrobin)
EPA REG #7969-403 • FRAC 3 + 11
\$ 1,399.60 per gallon
\$ 543.16 per 37 oz. bottle

A dual-action DMI that controls disease with powerful precision. Powered by Revysol active ingredient, Navicon is a groundbreaking new broad-spectrum DMI combined with the plant health benefits of Intrinsic brand fungicides to provide turf-safe, highly effective control of some of the toughest diseases. This dual-action fungicide can be sprayed on any turf and at any temperature, and it delivers powerful plant health from the roots up. Navicon Intrinsic brand fungicide controls the toughest diseases including: dollar spot, anthracnose, summer patch, fairy ring, spring dead spot, bipolaris leaf spot, take-all root rot. **RATE: 0.7-0.85 oz./1000 sq. ft. 2 x 2.5 gallons or 4 x 37 oz. bottles/case**



POSTERITY
(Pydiflumetofen)
Anilene
EPA REG #100-1600 • FRAC 7
\$ 1,704.00 per 105 oz. bottle
\$ 987.00 per 42 oz. bottle

Posterity fungicide is the most active SDHI fungicide on the market. Providing power that lasts, it holds stronger for up to 28 days of dollar spot control and delivers consistent spring dead spot control. Posterity is labeled for all golf course turf and fits in agronomic solutions to protect cool- and warm-season turf. Posterity has an increased affinity for the waxy layer of the turfgrass plant, providing rain-fastness for enhanced performance. It is designed to remain in the plant longer for consistent control. **RATE: 0.08-0.32 oz./1000 sq. ft. 2 x 105 oz bottles or 2 x 42 oz. bottles/case**



PILLAR GRANULAR
(Pyraclostrobin + Triconazole)
Strobilurin, Demethylation Inhibitor
EPA REG #7969-304 • FRAC 11 + 3
\$ 145.00 per bag

Pillar G is a combination of Insignia and Trinity fungicide on a granular carrier. These two highly-effective active ingredients deliver excellent disease control on turf diseases, such as dollar spot, anthracnose, brown patch, fairy ring, fusarium patch, gray leaf spot, leaf spot, necrotic ring spot, pink patch, pink and gray snow mold, pythium blight, pythium root dysfunction, rust, summer patch, take-all patch, and yellow tuft. Pillar is labeled for use on golf courses, residential and commercial lawns, sod farms, sports fields, parks and cemeteries. **RATE: 3 lbs./1000 sq. ft. 30 lb. bag treats 10,000 sq. ft.**



POSTERITY FORTE
(Pydiflumetofen + Propiconazole + Azoxystrobin)
EPA REG #100-1604 • FRAC 7 + 3 + 11
\$ 835.00 per gallon

Posterity Forte fungicide is an advancement of the Posterity brand that is the driving force for powerful, targeted control of key turf diseases. In addition to spring dead spot, dollar spot, leaf spot and brown patch control, Posterity Forte is key for preventing bermudagrass decline in fall through spring transitions, with the added benefit of enhanced winter quality. It contains three leading active ingredients in different FRAC groups, including ADEPIDYN technology (pydiflumetofen). **RATE: 0.42-0.84 oz./1000 sq. ft. 2 x 2.5 gallons/case**



PILLAR SC
(Pyraclostrobin + Triconazole)
Strobilurin, Demethylation Inhibitor
EPA REG #7969-480 • FRAC 11 + 3
\$ 290.00 per 43.5 oz bottle

Pillar SC pairs the strength of two active ingredients in one powerful broad-spectrum solution for fast curative activity and residual control for up to 28 days. It controls the toughest lawn diseases, including dollar spot some solo products leave behind. In addition to excellent disease control, it is EPA labeled to improve stress tolerance and growth efficiency to help you achieve beautiful, resilient, high-quality lawns for your customers. The liquid formulation is easier to mix and load and stays in suspension without clogging or settling out. **RATE: 1 oz/1000 sq. ft. 4 x 4.35 oz/case**



**NEW
PRODUCT!**

POSTERITY XT
(Pydiflumetofen + Propiconazole + Azoxystrobin)
EPA REG #100-1654 • FRAC 7 + 3 + 11
\$ 256.00 per gallon

Posterity XT provides up to 28 days of control of more than 20 diseases including dollar spot, brown patch, summer patch and more. It provides optimum protection against soil-borne diseases like summer patch, leaf spot, take-all patch and fairy ring. Posterity XT contains three leading active ingredients in different FRAC groups, including ADEPIDYN® technology (pydiflumetofen), for enhanced control, spectrum and resistance management. **RATE: 1.5-3 oz./1000 sq. ft. 2 x 2.5 gallons/case**



PPZ 41.8 SELECT
(Propiconazole)
Demethylation Inhibitor
EPA REG #84229-3 • FRAC 3
\$ 225.00 per gallon



This is a 41.8% EC formulation of propiconazole. The original Banner formulation from Syngenta was an EC before it was reformulated to the current water-based Maxx formulation. The 41.8% concentrate allows for much lower use rates, however caution must be added during warm temperature due to the EC solvents in the blend. Propiconazole is best used for control of dollar spot, anthracnose, powdery mildew, summer patch, take all patch and many other patch diseases. **RATE: 0.18-1.45 oz./1000 sq. ft. 4 x 1 gallons/case**

PROTECT DF
(Mancozeb)
Carbamate
EPA REG #1001-77 • FRAC M3
\$ 14.00 per lb



Protect DF is a 75% Mancozeb product that is labeled for use on commercial and home lawns, athletic fields, sod farms, cemeteries, parks and golf course greens, tees and fairways. Mancozeb is a contact fungicide for the control of diseases such as fusarium blight, leaf spot, brown patch, rust, pythium blight, damping off, dollar spot, algae, pink snow mold and downy mildew. Protect also has a wide ornamental label as well. The 6 lb. bags are resealable. **RATE: 4-8 oz./1000 sq. ft. 6 x 6 lbs/case**

PREMION
(PCNB + Tebuconazole)
Aromatic Hydrocarbon + Demethylation Inhibitor
EPA REG #5481-585 • FRAC 14 + 3
\$ 110.00 per gallon *CLOSEOUT PRICE**



Formerly called Oreon, Premion is the newest addition to the turf fungicide portfolio and is an effective, water-based solution to dollar spot, brown patch, and anthracnose. A pre-mix formulation, Premion is the only fungicide that utilizes both PCNB and tebuconazole, making it an important resistance management tool. For applications April through June or mid-August through November, Premion is one of the few single products that can combat dollar spot, brown patch and anthracnose. **RATE: 4-12 oz./1000 sq. ft. 2 x 2.5 gallons/case**

RAYORA
(Flutriafol)
Demethylation Inhibitor
EPA REG # 279-3633 • FRAC 3
\$ 245.20 per gallon



Rayora fungicide contains flutriafol, a breakthrough active ingredient from FMC. Ideal for preventative and curative dollar spot and fairy ring, Rayora is set apart by its rapid foliar and root uptake, which is faster than any other in its class. In addition, Rayora actively protects the treated turf and newly developed leaves as the turf grows. Rayora has turf safety with proven examples of excellent turfgrass quality. Rainfast in two hours, Rayora has preliminary data that suggests effectiveness on certain DMI and SDHI insensitive strains. It does not have PGR effects. **RATE: 0.7-1.4 oz./1000 sq. ft. for 14-21 day control 2 x 2.5 gallons/case**

PREVIA
(Chlorothalonil)
EPA REG #5481-626 • FRAC M5
\$ 71.00 per gallon *CLOSEOUT PRICE**



Previal fungicide is a broad-spectrum, contact fungicide that should be used in preventative applications to provide effective control of many important turfgrass diseases. Previa contains active ingredient chlorothalonil - a standard for broad-spectrum disease control. Use Previa on all warm and cool season turfgrasses prior to disease development. **RATE: 5.5 fl. oz./1000 sq. ft. 2 x 2.5 gallons/case**

RENOWN
(Chlorothanil + Azoxystrobin)
Nitrile, Strobilurin
EPA REG #100-1315 • FRAC M5 + 11
\$ 296.00 per gallon



Renown is the only product to contain the active ingredients found in Daconil and Heritage, the two top-selling fungicides in the golf market. Syngenta's proprietary azoxystrobin and chlorothalonil are formulated into one economical, disease-fighting, high-performance machine. Azoxystrobin cycles systemically through the entire plant, protecting the interior cells from disease. Simultaneously, the stick-and-stay technology holds our chlorothalonil to the plant surface even after heavy rain or irrigation. It is labeled for the control of brown patch, anthracnose, dollar spot, gray leaf spot, rust, pink patch, to name a few. Refer to the label for a complete list of diseases controlled. **RATE: 2.5-4.5 oz/1000 sq. ft. 2 x 2.5 gallons/case**

PROPICONAZOLE 14.3 SELECT
(Propiconazole)
Demethylation Inhibitor
EPA REG #89442-17 • FRAC 3
\$ 155.00 per gallon in 1 gallons
\$ 125.00 per gallon in 2.5 gallons



Propiconazole 14.3 Select provides preventative and curative control of many turfgrass and ornamental diseases. It inhibits the incorporation of ergosterol into the growing fungal cell membranes. Without ergosterol, the fungal cellular growth is stopped. By disrupting fungal growth at the earliest possible stage, the impact and effects of the disease is minimized. Propiconazole 14.3 Select™ is a broad spectrum product and works to control over 18 turf diseases. **RATE: 0.5-4 oz./1000 sq. ft. 4 x 1 gallons or 2 x 2.5 gallons/case**

SECURE ACTION
(Fluazinam + Acibenzolar-S-methyl)²
Pyridinamine
EPA REG #100-1633 • FRAC 29 + P1
\$ 697.00 per gallon
\$ 410.50 per 64 oz. bottle



Secure Action includes a boost of acibenzolar-S-methyl (ASM), to better prevent and quickly recover from biotic and abiotic stress. With an enhanced formulation, it offers improved dollar spot control and brings the ASM defense to fairways and greens, providing inside out turf protection. It increases dollar spot control interval up to 21 days and adds suppression of bacterial wilt for effective control of more than 10 key diseases. **RATE: 0.5 oz./1000 sq. ft. 2 x 2.5 gallons or 2 x 0.5 gallons/case**

FUNGICIDES!

SEGWAY SC
(Cyazofamid)
Cyanoimidazole
EPA REG #71512-13-2217 • FRAC 21
\$ 445.00 per 39.2 oz.



Segway is a fungicide for the control and prevention of pythium root dysfunction, pythium blight, and pythium damping-off. Segway works by its unique mode of action, that preventatively inhibits all stages of pythium development. Subsequent applications of Segway should be rotated with another fungicide with a different mode of action. 2-4 gallons of water per 1000 sq. ft. is recommended for optimum control. **RATE: 0.45-0.9 oz./1000 sq. ft.** 12 x 39.2 oz. bottles/case

SERATA
(Picarbutrazox)
EPA REG #8033-138-279 • FRAC U17
\$ 475.00 per 35 oz.



The active ingredient in Serata fungicide, picarbutrazox, is a new compound from a new class of chemistry identified as the tetrazolyloximes. Picarbutrazox has translaminar activity and no known cross resistance between it and other oomycete chemistries, making it an ideal tool for Pythium control and resistance management. Its labeled for use on golf courses, sports turf, lawns and landscapes. **RATE: 0.6-0.8 oz./1000 sq. ft.** 4 x 35 oz. bottles/case

SIGNATURE XTRA STRESSGARD
(Fosetyl AI)
Phosphonate
EPA REG #432-1541 • FRAC 33
\$ 206.00 per 5.5 lb.



Signature XTRA Stressgard is a true systemic fungicide that enhances plant health and turf quality, while minimizing stress from both abiotic and biotic sources. Signature XTRA Stressgard uses a new, improved formulation of fosetyl-AI, the same active used in Chipco® Signature. The new formulation protects against summer decline and Pythium blight, plus adds stronger control of root-infecting Pythium species when watered in. It can be applied alone or in a tank-mix. Root growth and development is significantly increased with repeated application of the Signature Xtra. **RATE: 2-6 oz./1000 sq. ft.** 4 x 5.5 lbs/case

SPOTRETE F
(Thiram)
Carbamate
EPA REG #45728-26-1001 • FRAC M3
\$ 85.00 per gallon



Spotrete Flowable is both a turfgrass fungicide, as well as an animal repellent. Spotrete is a contact fungicide that can provide short-term control of brown patch, dollar spot, and snow mold. Great as a tank mix partner for snow mold control in the fall. **Rate: 3 3/4-7 oz./1000 sq. ft. for brown patch and dollar spot. 6-12 oz./1000 sq. ft. for snow mold control in the fall when mixed with another AI.** 2 x 2.5 gallons/case

STROBE 50 WDG
(Azoxystrobin)
Strobilurin
EPA REG #53883-343 • FRAC 11
\$ 320.00 per lb.



Strobe 50WG is a post-patent broad-spectrum preventative fungicide with systemic and curative properties. It affects every stage of fungal disease development and is absorbed through a plant's leaves, crowns and roots. For use on golf courses, turf production farms, ornamentals, lawns and landscape areas, parks, and athletic fields. Effective against anthracnose, brown patch, downy mildew, gray leaf spot, leaf blights, leaf spots, necrotic ring spot, powdery mildew, pythium blight, rust snow mold, summer patch, take-all patch, zoysia patch. **RATE: 0.2-0.7 oz./1000 sq. ft.** 6 x 1 lb/case

STROBE 2L
(Azoxystrobin)
Strobilurin
EPA REG #42750-261-53883 • FRAC 11
\$ 660.00 per gallon



Strobe 2L is a liquid formulation azoxystrobin fungicide which contains 2 pounds of active ingredient per gallon. It is a broad-spectrum fungicide with protectant, curative, eradicator and systemic properties. It is specifically formulated for use on golf courses, commercial and residential lawn and landscape areas, parks, recreation areas and athletic fields, and is an excellent addition to fungicide resistance management program rotations. It is a companion product to our Strobe 50WG, a wettable granule formula of azoxystrobin. **RATE: 0.38-0.77 oz./1000 sq. ft.** 2 x 1 gallons/case

SUBDUE GR
(Mefenoxam)
Phenylamide
EPA REG #100-794 • FRAC 4
\$ 190.00 per bag



Subdue GR is a granular formulation of Subdue Maxx for use on bedding plants, flowers, perennials, shrubs and other ornamental plants in outdoor landscapes and interiorscapes to control damping-off, downy mildew and root and stem rot diseases caused by Pythium and Phytophthora. It is a must-use on new greens and tees at the time of seeding to prevent damping-off of seedlings. Apply either as a soil surface application or incorporate into the soil at the time of seeding and transplanting. When applying Subdue GR to the soil surface, irrigate with enough water to completely wet the root zone after application. **RATE: 12.5-25 oz./1000 sq. ft.** 25 lb. bags

SUBDUE MAXX
(Mefenoxam)
Phenylamide
EPA REG #100-796 • FRAC 4
\$ 611.00 per gallon



Subdue Maxx is a systemic fungicide for the control of pythium on turfgrass and ornamentals. Can be used as a preventative or curative. Product is best used when conditions are favorable for disease, but before disease occurs. Subdue Maxx is also great for use on newly seeded areas for the control of pythium damping off. Proper use of Subdue on newly seeded areas can increase new turfgrass stands by up to 50%. **RATE: 0.5-1 oz./1000 sq. ft. at 10-21 day intervals for pythium.** 2 x 1 gallons/case

TARTAN STRESSGARD
(Trifloxystrobin + Triadimefon)
Strobilurin, Demethylation Inhibitor
EPA REG #432-1446 • FRAC 11 + 3
\$ 413.20 per gallon



Tartan fungicide is a broad-spectrum product, which provides preventative and curative disease control. Designed specifically for golf courses, Tartan may be used on greens, tees, fairways, and roughs to provide 21-day control. The product contains Stressgard formulation technology, which strengthens the plant, while effectively controlling 13 turf diseases. In fact, Tartan is an excellent tool for disease resistance management, because it is easy to apply and is compatible for tank-mixing with foliar fertilizers and insecticides. Labeled for the control of dollar spot, brown patch, anthracnose, fusarium patch, gray leaf spot and leaf spot. **RATE: 1-2 oz./1000 sq. ft. Recommended rate of 1.5 oz./1000 sq. ft. for 21 days control. Great for greens tees and fairways. 2 x 2.5 gallons/case**

TEBUCONAZOLE 3.6F
(Tebuconazole)
Demethylation Inhibitor
EPA REG #66222-117 • FRAC 3
\$ 250.00 per gallon



Tebuconazole 3.6F provides excellent preventative and curative control on a broad-spectrum of disease pathogens. Rapid uptake in turf provides up to three weeks of residual disease control. Its low use rates and easy to mix formulation makes it convenient to apply. Labeled for nursery, landscape, non-residential turf, and golf courses. Effective against brown patch, dollar spot, necrotic ring spot, anthracnose, fusarium patch, gray leaf spot, and snow mold. **RATE: 0.6-1.1/oz. per 1000 sq. ft. 4 x 1 gallons/case**

TEKKEN
(Isfetamid + Tebuconazole)
Demethylation Inhibitor
EPA REG #2217-1019 • FRAC 3 + 7
\$ 170.00 per gallon in 2 x 2.5 gallons



Tekken broad-spectrum fungicide from PBI-Gordon uses two modes of action to deliver dependable control of 21 diseases, including anthracnose, dollar spot, and brown patch. Tekken controls them all for up to 28 days with the same rate, eliminating the guesswork. It is labeled for use on bermudagrass, zoysiagrass, Kentucky bluegrass, fine and tall fescues, perennial ryegrass and bentgrasses. **RATE: 3 oz./1000 sq. ft. 2 x 2.5 gallons**

NEW PRODUCT!

TMI 2020 XL
(Iprodione + Thiophanate-methyl)
Benzimidazole, Dicarboximide
EPA REG #53883-323-86064 • FRAC 1 + 2
\$ 110.00 per gallon



ArmorTech TMI 2020 XL fungicide prevents and controls fungal diseases on ornamental plants grown in containers, fields or greenhouses, as well as fungal turf diseases on greens, fairways, trees and other turf sites. Product can be applied by chemigation or ground spray equipment. Compare to Bayer 26/36 fungicide and Andersons fluid fungicide. **RATE: 1-4 oz./1000 sq. ft. on turf, 33-84 oz./acre on ornamentals. 2 x 2.5 gallons/case.**

TOURNEY
(Metconazole)
Demethylation Inhibitor
EPA REG #59639-144 • FRAC 3
\$ 155.00 per lb. *CLOSEOUT PRICE**



Tourney fungicide provides consistent control of the "Big 3" turf diseases: brown patch, anthracnose and dollar spot. Even dollar spot that is resistant to thiophanate-methyl. Tourney is both preventative and curative in control and is quickly absorbed into the plant tissue. **RATE: 0.18-0.37 oz./1000 sq. ft. 4 x 5 lbs/case**

TOURNEY EZ
(Metconazole)
Demethylation Inhibitor
EPA REG #59639-257 • FRAC 3
\$ 865.00 per gallon

Tourney EZ liquid formulation is the next generation of Tourney fungicide. It is a powerful, broad-spectrum solution and one of the most active DMI fungicides on the market. It's your go-to solution for effective control of more than 16 turfgrass and ornamental diseases, including anthracnose, brown patch, summer patch, take-all patch, fairy ring, dollar spot, necrotic ring spot, gray leaf spot, snow mold and other patch diseases. **RATE: 0.18-0.44 oz./1000 sq. ft. 4 x 1 gallons/case**

TRACTION
(Fluazinam + Tebuconazole)
Pyridinamine + Demethylation Inhibitor
EPA REG #228-739 • FRAC 29 + 3
\$ 260.00 per gallon



Traction is a proven premix that helps golf course managers save time and stay in control of challenging diseases, including anthracnose, dollar spot, brown patch and snow mold. By working on contact and systemically within the plant, Traction effectively controls 19 challenging turf diseases and algal scum. Traction delivers premium fungicide performance on every golf course area, including fairways, greens, aprons and tees. **RATE: 1.3 oz./1000 sq. ft. 2 x 2.5 gallons/case**

TRANSOM F
(Thiophanate Methyl)
Benzimidazole
EPA REG #72112-2 • FRAC 1
\$ 120.00 per gallon



Transom F is a broad-spectrum systemic fungicide used for the control of major turf diseases on tees, greens, and fairways. Transom F has both preventative and curative systemic properties and is labeled for the control of brown patch, dollar spot, anthracnose, summer patch, and gray leaf spot. Transom F is a great tank-mix partner at an economical price. **RATE: Use 2-4 oz. for brown patch, dollar spot, 4-8 oz. for everything else. 2 x 2.5 gallons per case**

FUNGICIDES!

TURFCIDE 10% Granular (PCNB)
Aromatic Hydrocarbon
EPA REG #400-407 • FRAC 14
\$ 155.00 per bag

A preventative fungicide used to control a broad range of turf diseases, PCNB is best known for its use and control for gray and pink snow mold. Can also be used in early spring applications for curative control. A granular formulation. **RATE: 5-7 1/2 lb./1000 sq. ft. for snow mold 50 lb. bags, 40 per pallet**



TURFCIDE 400 (PCNB)
Aromatic Hydrocarbon
EPA REG #5481-472 • FRAC 14
\$ 93.00 per gallon

A flowable formulation of PCNB. This is a 4 lb. per gallon active product. Turfcide 400 is easy to mix and will not clog spray tips, unlike the wettable powder products. It is labeled for a broad range of turf diseases, but is best known and used for the control of gray and pink snow mold. **RATE: 8-12 oz./1000 sq. ft. for preventative snow mold 2 x 2.5 gallons/case**



TUQUE EXOGEN (Fludioxonil + Benzovindiflupyr)
EPA REG #100-173 • FRAC 12 + 7
\$ 290.00 per gallon

Tuque exoGEM combines SOLATENOL® technology and fludioxonil, a contact fungicide with translaminar activity, in an advanced formulation to provide guaranteed snow mold control as part of the GreenTrust® 365 Snow Mold Guarantee program. The exoGEM formulation is engineered to deliver greater uptake, distribution, rainfastness and retention to quickly protect turf from damaging diseases including anthracnose, gray leaf spot and brown ring patch. **RATE: 1.5-2.87 oz./1000 sq. ft. 2 x 2.5 gallons/case**



UNION SC (Azoxystrobin + Cyazofamid)
Strobilurin, Cyanoimidazole
EPA REG #2217-1049 • FRAC 21 + 11
\$ 430.00 per gallon

Union SC fungicide combines two powerful active ingredients to deliver exceptional performance in a single fungicide. Azoxystrobin controls 21 of the most common diseases, including brown patch and anthracnose. And cyazofamid offers unbeatable defense against pythium blight, damping off, root dysfunction, and root rot. Union SC features a long-lasting residual control, is listed for use on all turfgrass species, and the pre-mixed formulation saves time and labor. Union SC is labeled for use on golf courses, residential lawns, sod farms, athletic fields. Commercial lawns and parks. **RATE: 2.9-5.75 oz./1000 sq. ft. 2 x 2.5 gallons/case**



VELISTA (Penthiopyrad)
Anilene
EPA REG #100-1534 • FRAC 7
\$ 286.00 per 22 oz. bottle

Velista is a newest SDHI fungicide on the market. It is best known for its excellent control of several turf diseases, but is best known for its excellent control of anthracnose. Velista exhibits translaminar and xylem systemic movement on treated turf. It is labeled for the control of dollar spot, brown patch, anthracnose, leaf spot, red thread, powdery mildew and gray snow mold. It can be used on golf course greens, tees, fairways, home lawns, commercial lawns, athletic fields, and sod farms. For resistance management, make no more than two successive applications of Velista, which includes other SDHI fungicides such as Emerald and Xzemplar. Daconil Action is a great rotation product for Velista and other products in this class. **RATE: 0.3-0.7 oz./1000 sq. ft. for 14-21 days of control 6 x 22 oz/case**



XZEMPLAR (Fluxapyroxad)
Anilene
EPA REG #7969-349 • FRAC 7
\$ 1,725.96 per 114 oz. bottle
\$ 202.01 per 11.4 oz. bottle

Powered by the next generation carboxamide with enhanced systemic properties for fast continuous protection, Xzemplar fungicide gives you ultimate control over dollar spot. It combines the fast-stopping power of a contact fungicide with long-lasting preventative action. Xzemplar is labeled for the control of dollar spot, brown patch, summer patch and algae on golf courses, sports fields, parks, residential and commercial lawns, cemeteries and sod farms. **RATE: 7-11.4 oz. per acre 2 x 114 oz. or 4 x 11.4 oz. acre size bottles/case**



FUNGICIDE USE CHART!

Fungicide	Dollar Spot	Brown Patch	Summer Patch	Fairy Ring	Leaf Spot	Anthraco	Pythium	Take All Patch	Snow Mold
3336/Transom	G	F	S	N	G	G	N	N	S
Appear II	N	S	N	N	N	S	G	N	N
Banner/Strider	G	S	G	N	S	G	N	G	S
Banol	N	N	N	N	N	N	E	N	N
Bayleton FLO	E	S	G	F	G	S	N	N	S
Briskway	E	E	G	G	G	E	N	G	N
Chipco GT	G	S	S	N	G	N	N	N	G
Concert	E	G	S	N	G	G	N	S	G
Daconil	E	G	N	N	G	G	N	S	G
Densicor	E	G	G	G	E	E	N	N	E (PINK) N (GREY)
Eagle	G	G	G	N	G	G	N	S	S
Emerald	E	N	N	N	N	N	N	N	N
Exteris Stressgard	E	S	N	N	S	S	N	N	S
Fame SC	G	G	S	S	G	G	P	G	G
Fiata Stressgard	N	N	N	N	N	N	G	N	N
Headway	E	G	E	S	G	E	N	G	E
Heritage	N	E	E	G	S	E	S	E	G
Honor	E	E	E	S	G	E	S	E	S
Insignia	P	E	E	S	G	E	S	E	S
Instrata	G	E	G	N	E	E	N	N	E
Lexicon	E	E	G	G	E	E	S	G	S
Maxtima	E	N	G	G	S	G	N	G	N
Medallion SC	N	E	G	N	G	G	N	N	G
Mirage Stressgard	G	P	G	S	G	S	N	S	S
Navicon	E	E	E	G	G	E	S	E	G
Posterity Forte	E	S	S	S	S	N	N	N	S
Posterity XT	E	E	E	E	E	E	G	E	G
Rayora	E	G	G	N	N	E	N	G	E
Renown	G	E	G	N	E	E	N	N	N
Secure Action	E	E	N	N	E	G	N	N	G
Segway	N	N	N	N	N	N	E	N	N
Signature XTRA	N	N	N	N	N	N	E	N	N
Subdue Maxx	N	N	N	N	N	N	G	N	N
Tartan Stressgard	E	E	E	S	E	E	N	G	E
Tourney	G	E	E	G	S	E	N	G	G
Union SC	N	E	E	G	S	E	E	G	N
Velista	N	G	N	N	G	E	N	N	N
Xzemplar	E	G	S	N	N	N	N	N	S

Key Guide: **N** = No Control, **S** = Some Control, **G** = Good Control, **E** = Excellent Control.

This chart is based on the opinions of D & K Products and not necessarily of the manufacturer. Please refer to the product label prior to the use of any Pesticide.



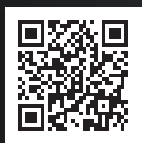
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PRODUCTS
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LOTS OF NEW
TECH TO
TRY OUT!



**INSECT
CONTROL**



Breaking news: With two modes of action, Acelepryn® Xtra insecticide offers even more insect control than the original Acelepryn. In addition to **grubs**, **billbugs** and **caterpillars**, it's labeled for greater control of **chinch bugs**, **ants** as well as **curative grub control**.



For more on this developing story, visit
[GreenCastOnline.com/AceleprynXtra](https://www.GreenCastOnline.com/AceleprynXtra)

Or contact John Spaulding:
john.spaulding@syngenta.com | 816-674-7053



Controls more insects with
 just **one application**



10% volume discount
 available for purchases of 25
 gallons

X YouTube @SyngentaTurf #Time4AceleprynXtra

 **Acelepryn® Xtra**
 Insecticide

syngenta®

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ACELEPRYN
(Chlorantraniliprole)
EPA REG #100-1489
\$ 1,137.50 per 64 oz. bottle



Acelepryn is an insecticide class with a novel mode of action. Studies prove that it delivers superior results with the lowest application rate (lb. ai/acre) ever utilized for white grub control. It controls many pests with a single application, while having a superior toxicological and environmental profile. It's classified as reduced-risk by the United States EPA for use on turf for its low application rate and low water solubility. Great preventative for white grubs and Japanese beetles. Acelepryn needs to be applied in the month of May for optimum control. **RATE: 8 oz. per acre 4 x 64 oz./case**

ACELEPRYN G
(Chlorantraniliprole)
EPA REG #352-772
\$ 175.00 per bag



Granular formulation of Acelepryn insecticide. **RATE: May be applied at up to 125 lbs./acre (0.25 lb. AI/A). Refer to the label for target pest details. 25 lb. bags**

ALOFT LAWN CARE SC
(Clothianidin & Bifenthrin)
EPA REG #59639-213
\$ 670.00 per 64 oz. bottle



With preventive and curative control, one application of Aloft combats insect pests fast. Prevent troublesome turfgrass insects and surface-feeders, including white grubs, with a single early treatment or knock down existing pests with flexible application options from April to September. Plus, Aloft LC SC attacks red-imported fire ants. EPA approved for fire ant control, Aloft LC SC takes them down within seven days and lasting residual control keeps them down. **RATE: 11.65-23.3 oz./acre per year (0.27-0.54 oz./1000 sq. ft.) 4 x 64 oz. per case ***POLLINATOR WARNING*****

ALOFT LC G
(Clothianidin & Bifenthrin)
EPA REG #66330-368
\$ 86.00 per bag



ALOFT LC G is a broad-spectrum, long-lasting contact and systemic insecticide for control of insects infesting lawns and ornamentals in landscapes and surrounding areas. ALOFT LC G can be used around residences, business complexes, industrial complexes, airports, playgrounds, schoolyards, parks and recreation areas, athletic fields, cemeteries, arboretums, and non-production greenhouses. Not for use on golf courses or sod farms. **RATE: 1.8-3.6 lbs./1,000 sq. ft. (80-160 lbs./acre) 30 lb. bags ***POLLINATOR WARNING*****

ACELEPRYN XTRA
(Chlorantraniliprole & Thiamethoxam)
EPA REG #100-1680
\$ 800.00 per gallon in 2.5 gallons
\$187.50 per 30 oz. bottle



Acelepryn Xtra is powered by two active ingredients and modes of action to deliver long-lasting, broad-spectrum insect control, including season-long control of grubs, billbugs and caterpillars, plus enhanced chinch bug control with at least three months of guaranteed control of southern chinch bugs in the lawncare market. It also offers control of ants and early curative control of grubs through the second instar, leading to greater flexibility and fewer applications. **RATE: 2.3-4.6 fl. oz./1000 sq. ft. (10-20 fl. oz./acre) 4 x 64 oz./case**

ALUCION
(Dinotefuran)
EPA REG #7969-467
\$ 244.29 per bottle



Alucion 35 WG insecticide is the only non-restricted use pyrethroid labeled for golf courses. Fueled by two active ingredients, dinotefuran and alpha-cypermethrin, it delivers fast-acting control of surface-feeding insects. The powerful knock-down and repellent activity adds a barrier of long-lasting protection against tough-to-control ants. Alucion mixes quickly, easily, and stays in suspension. **RATE: 0.44 oz./1000 sq. ft. 10 x 2.375 lbs per case**

ALOFT GOLF COURSE SC
(Chlothianidin & Bifenthrin)
EPA REG #66330-365
\$ 670.00 per 64 oz. bottle



ALOFT GC SC is a broad-spectrum, long-lasting contact and systemic insecticide for control of insects infesting turfgrass and ornamentals in landscapes and surrounding areas. ALOFT GC SC can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, golf courses, cemeteries, arboretums, non-production greenhouses and on commercial sod farms. Aloft is labeled for the control of cutworms, chiggers, white grubs, billbugs, BTA sod webworm, and ticks to name a few. **RATE: 11.65-23.3 oz./acre per year (0.27-0.54 oz./1000 sq. ft.) 4 x 64 oz. per case ***POLLINATOR WARNING*****

ARENA 50 WDG
(Clothianidin)
EPA REG # 59639-152
\$ 280.00 per lb



Arena insecticide is a generation neonicotinoid insecticide that works in two ways to protect the turf. Applied preventively from early May through July, Arena provides season-long control of white grubs while stopping other soil-borne insects dead in their tracks. If needed, Arena can also be applied as a highly-effective, curative rescue treatment from mid-July to mid-September. **RATE: 6.4-10.5 oz./acre, RECOMMENDED grub control rate is 8 oz./acre. 4 x 2.5 lb. per case ***POLLINATOR WARNING*****

INSECTICIDES!

ARENA .25 G
(Clothianidin)
EPA REG # 59639-157
\$ 85.00 per bag



A granular formulation of Arena insecticide. Product needs to be watered-in before the it can begin working. Arena granular offers both preventative and curative control. When used for as a curative it will provide extended preventive control for late hatches. **RATE: 60-160 lbs./acre. For curative control, a minimum of 120 lbs. is recommended. 30 lb. bags**
*****POLLINATOR WARNING*****

AVALON
(Bifenthrin)
EPA REG #279-3206-72112
\$ 88.00 per gallon



Avalon is a broad-spectrum insecticide for the control of insects and mites on turf, ornamentals, residential and commercial. It can be used for the control of bees, fleas, termites, spiders, ants, bagworms, caterpillars, thrips, and leaf miners. The Avalon formulation mixes readily with water and other aqueous carriers, and controls mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and outdoor nurseries, and turf on golf courses and sod farms. May be tank-mixed, including with insect growth regulators. Refer to the label for a list of insects controlled and suggested use rates. **RATE: 0.18-1.0 oz./1000 sq. ft. in turf, 5.4-43.5 oz./100 gallons for ornamentals. For use on golf courses, Avalon Golf must be purchased; it is the same formulation as Avalon, but with a RUP golf course label. 4 x 1 gallons per case**

AVALON GOLF & NURSERY
(Bifenthrin)
EPA REG #279-3155-72112
\$ 88.00 per gallon



Avalon Golf & Nursery insecticide formulation mixes readily with water and other aqueous carriers, and controls mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and outdoor nurseries, and turf on golf courses and sod farms. May be tank-mixed, including with insect growth regulators. Refer to the label for a complete list of insects controlled and suggested use rates. **RATE: 0.18-1 oz./1000 sq. ft. in turf, 5.4-43.5 oz./100 gallons for ornamentals. 4 x 1 gallons per case**

DEMAND/ARCHER MULTIPAK
(Lambda-cyhalothrin) - Demand
(Pyridine) - Archer
EPA REG #100-1066
\$ 401.75 per case



The Demand/Archer Multipak includes the powerful combination of Demand CS insecticide and Archer insect growth regulator to provide significant control of mosquito populations. Demand CS is formulated using iCAP technology, featuring microcaps of multiple sizes that provide immediate and residual control of mosquitoes. To complement Demand CS, Archer interrupts the reproduction cycle of mosquitoes, causing them to lay non-viable eggs or prevent larvae from developing into adults. **RATE: 0.8 oz. of Demand + 1 oz. of Archer per gallon, use 2 gallons for every 10,000 sq. ft. of area with a mist-blower backpack every 60 days during season. Mist-blowing only trees, shrubs and landscape beds from the ground up to 10 feet, focusing on the underside of foliage. Turf does not need to be treated. Case contains 2 quarts of Demand, 5 pints of Archer**

DIVANEM
(Abamectin)
EPA REG #100-1611
\$ 1,893.00 per half gallon



Divanem nematocidal delivers excellent turf quality through proven, broad-spectrum control, including sting, lance, and root-knot nematodes. The innovative formulation moves quickly into the soil where nematodes are most active and provides drought tolerance and quicker recovery from stress. No special equipment needed for application. Divanem is safe for use on greens, tees and fairways of all turf species. Turf should be wet prior to application, and a wetting agent and surfactant should be tank-mixed with Divanem. For best results, applications should be made during mornings when light levels are low and dew is present. If no dew is present, a short irrigation cycle should be run to moisten turf prior to application. **RATE: 3.125-12.2 oz./acre 2 x .5 gallons per case**

DYLOX 420 SL
(Trichlorfon)
EPA REG #432-1464
\$ 165.00 per gallon



Dylox 420 SL works by both contact and ingestion. It rescues and protects lawns and turf from grubs and certain other insects that feed on them. When watered properly, this product can even penetrate thatch up to 1/2 inch thick. Broadcast applications are limited to greens and tees on golf courses with spot applications only on fairways. Product must be watered-in for grub control. **RATE: 6.9 oz./1000 sq. ft. for white grubs, 4.6-6.9 oz./1000 sq. ft. for surface feeders. 2 x 2.5 gallons per case**

DYLOX 6.2G
(Trichlorfon)
EPA REG # 432-1308
\$ 91.00 per bag



A granular insecticide for the control of white grubs, sod webworms and cutworms. **Dylox is best known as an immediate curative for white grubs.** As with any grub insecticide, it must be watered-in before it can start to work. Broadcast applications are limited to greens and tees on golf courses, with spot applications only on fairways where pests are present. **RATE for grubs: 3 lbs./1000 sq. ft., 2 lbs./1000 sq. ft. for surface feeders. 30 lb. bag - 60 bags per pallet**

INDEMNIFY
(Fluopyram)
EPA REG #432-1543
\$ 1,925.00 per 17.1 oz.



Indemnify is a next-generation nematocidal that controls key plant parasitic nematodes in turfgrass. It improves root growth and overall turfgrass health, translating to better playability with improved wear tolerance. Indemnify is safe on all turf types, including bermudagrass, creeping bentgrass and annual bluegrass. Indemnify is also approved for use on all golf course areas of play, along with sod farms, sport fields, residential, institutional, municipal, and commercial turfgrass areas. **RATE: 0.195-0.39 oz./1000 sq. ft. 4 x 17.1 oz. per case**

MERIDIAN .33G
(Thiamethoxam)
EPA REG #100-961

\$ 70.00 per bag *CLOSEOUT PRICE**

Meridian insecticide provides turf managers with an unprecedented degree of control and application flexibility in managing a broad-spectrum of grubs and insects on their turf. Meridian controls soil and foliar pests at very low rates, through both contact and ingestion activity. It also is effective and suitable for use on trees and shrubs. **RATE: 7-9 lbs./5,000 sq. ft. or 60-80 lbs./acre 40 lb. bags**



MERIT .5G
(Imidacloprid)
EPA REG #432-1328

\$ 63.00 per bag

A granular formulation of Merit 75 WSP. **RATE: 60 lbs./acre. Product needs to be watered within a week for best results. PLEASE NOTE - For greater ease of spreadability, consider a granular fertilizer and Merit combination. See the Fertilizer section in this catalog for more information. 30 lb. bag, 80 bags per pallet**



MERIDIAN 25WG
(Thiamethoxam)
EPA REG # 100-943

\$ 140.00 per 17 oz. *CLOSEOUT PRICE**
\$ 581.40 per 102 oz.

Meridian can be used for the prevention of the following insects: grubs, Japanese beetles, northern masked chafers, southern masked chafers, European chafers, black turfgrass ateniensis, billbugs and ants. Product should be watered in within 7 days after application. Meridian belongs to the neonicotinoid class of chemistry, and should not be used on insects known to have resistance. Meridian is labeled for use on golf courses, residential lawns, commercial grounds, parks, athletic fields and sod farms. **RATE: 12.7-17 oz./acre 4 x 17 oz. or 4 x 102 oz. (fairway size) per case**



MINX 2
(Abamectin)
EPA REG #228-736

\$ 105.00 per quart

Minx 2 insecticide delivers quick and easy broad-spectrum mite and leafminer control in a new low volatile organic compound (VOC), water-based formula. It also works to suppress aphids, whiteflies and thrips. Compared to many other abamectin products, Minx 2 offers added application flexibility and applicator comfort. **RATE: 8-16 oz./acre 4 x 1 quarts per case**



MERIT 2F
(Imidacloprid)
EPA REG #432-1312

\$ 145.00 per gallon

Merit 2 F provides the industry's longest-lasting grub control at exceptionally low use rates. This product gives outstanding residual control of numerous ornamental pests – it interferes with nerve impulses and disrupts insect behavior. Pests stop feeding, stop reproducing, and eventually die. It has a wide application window and controls all major grub species. **Rate: 0.46-0.6 oz./1000 sq. ft. 4 x 1 gallons per case**



PROVAUNT WDG
(Indoxacarb)
EPA REG #100-1636

\$ 432.00 per 72 oz. bottle

European crane flies, annual bluegrass weevil (ABW), turf caterpillars (including armyworms, cutworms and sod webworms) and mole crickets all pose a significant threat to turf. Provaunt WDG insecticide controls all of these pests and more to protect your turf and landscape ornamentals. Targeted insects are controlled by feeding on treated foliage through direct contact with spray droplets during application, or by contact with active ingredient residue on leaf surfaces. Pests treated with Provaunt WDG can stop feeding within minutes, rapidly reducing feeding damage. Once feeding stops, mortality typically occurs within 48 hours. **RATE: 3-6 oz./acre 72 oz. containers**



MERIT 75 WSP
(Imidacloprid)
EPA REG #432-1318

\$ 1,900.10 per drum

Merit provides the industry's longest-lasting grub control at exceptionally low use rates. This product gives outstanding residual control of numerous ornamental pests – it interferes with nerve impulses and disrupts insect behavior. Pests stop feeding, stop reproducing and eventually die. Merit is the #1 insecticide in the turf and ornamental market. Merit is a broad-spectrum systemic action insecticide with both outstanding preventative and curative control and long residual activity. Usage rates up to 96% lower than many registered soil insecticides. Consider using a wetting agent at application to help move the Merit insecticide down into the thatch layer. **Rate: each Merit Mini will treat 27.5 acres at the 6.4 oz./acre rate 110 x 1.6 oz. per Mini Bulk**



SCIMITAR GC
(Lambda-cyhalothrin)
EPA REG #100-1088

\$ 275.00 per quart

The proprietary formulation technology of Scimitar insecticides, encapsulates the active ingredient, lambda-cyhalothrin, in small polymer capsules to protect it from the degrading effects of pH, sunlight and UV light. The result is superior control of insects in turf and ornamentals even after extended outdoor exposure. Scimitar GC is labeled for the control of more than 20 turf pests, including cutworms, ants, crickets, chiggers, fleas, grubs and ticks. Labeled for use on golf courses, sod farms, athletic fields, and ornamentals in residential and commercial areas. Advanced formulation results in fast-acting and longer residual control. **RATE: 5-10 oz./acre. RESTRICTED USE PESTICIDE 8 x 1 quarts/case**



INSECTICIDES!

SCION
(Gamma-cyhalothrin)
EPA REG #279-3612
\$ 152.00 per quart

The great outdoors can be a tough place, but Scion insecticide with UVX Technology is tougher. FMC's proprietary UVX Technology is a multi-component formulation engineered to deliver immediate control and a continuous residual, even under extreme conditions. With UVX Technology, Scion insecticide meets and exceeds industry demands, the company says, even when faced with high temperatures, intense sunlight and harsh surfaces. It offers more than 90-day performance to reduce callbacks when they're at their peak and you're at your busiest.

RATE: 0.16-0.33 oz./gallon or 0.5-1 oz./3 gallons 8 x 1 quarts/case



TRIPLE CROWN GOLF or T & O
(Zeta-Cypermethrin, Bifenthrin, Imidacloprid)
EPA REG #279-3457
\$ 345.00 per gallon

Triple Crown insecticides featuring a triple-action formulation for fast-acting, long-lasting, broad spectrum control of above- and below-ground pests, including ants, fire ants, masked chafer grubs, European chafer grubs, chinch bugs, annual bluegrass weevils, ticks, mites, billbugs and more. It works through contact, translaminar and systemic activity, making it a valuable tool against sucking pests that feed on a plant's vascular system as well as foliar-feeding insects. It's labeled for broadcast lawn and landscape treatments, mound treatments and golf course turf. **RATE: 0.23 - 0.80 oz./1000 sq. ft 4 x 1 gallons/case**



TALSTAR P
(Bifenthrin)
EPA REG #279-3206
\$ 110.00 per gallon

Talstar Professional achieves long-lasting control of over 75 pests, including ants, termites, cockroaches, spiders, bed bugs, fleas and ticks. And with its flexible label, Talstar Professional is approved in multiple use-sites: indoors and out. Talstar Professional is water-based, so it's non-irritating and contains no odorous or plant-damaging solvents. Talstar Professional leaves no residues and causes no phytotoxicity. **RATE: Dilute 0.5-1.0 oz./gallon, spray 1 gallon/1,000 sq. ft. 4 x 1 gallon or 4 x 1 quarts/case**



TRITEK DORMANT OIL
(Mineral Oil)
EPA REG #48813-1
\$ 32.00 per gallon

TriTek's mode of action is through suffocation of eggs, larvae and nymphs of insects and mites and adults of soft-bodied insects. This mode of action necessitates total spray coverage. It may be used to control mite and insect pests in the egg stage, including spider mites, eriophyid mites, armored scale, soft scale, mealybugs, psyllids, whiteflies, aphids, leafrollers, leafhoppers, webworms, cankerworms, plant bugs, leafhoppers, and adelgids. This product will kill other immature insect forms if the spray covers the insect. **RATE: 1-2 gallons/100 gallons of water 2 x 2.5 gallons/case**



TEMPO SC ULTRA
(Cyfluthrin)
EPA REG #432-1363
\$ 310.00 per 900 ml. bottle

A general insecticide for the control of a wide variety of insects. Can be used indoors and outdoors. Great on cutworms, ants, sod webworms, etc. This suspension concentrate delivers the power of a powder formulation in a liquid. It's easier to use, less messy, needs less agitation and is more evenly dispersed during application. **RATE: 4-6 mL/1000 sq. ft. 8 x 900 ml. bottles/case *Golf Course Label is a RUP, Lawn & PCO label is not.**



ZYLAM
(Dinotefuran)
EPA REG #2217-937
\$ 160.00 per quart

A liquid formulation of dinotefuran, Zylam systemic insecticide provides exceptional control of a broad spectrum of listed chewing and sucking insects. Used as a drench, soil injection, or bark banding application, it features translaminar activity to quickly move through the leaf and control insects that hide on the underside of leaf surfaces. **RATE: Apply at 11.6-23.2 mL/100 m², depending on the insect pest and history of pest pressure. Use the highest rate in areas with chronic infestations. Allow a minimum of four weeks between applications. 4 x 1 quarts/case**



TETRINO
(Tetraniliprole)
EPA REG # 432-1591
\$ 498.00 per gallon

Tetrino simplifies insect management programs by providing flexible application timing and broad-spectrum control of multiple turf insects. It can be used against soil-inhabiting pests of turfgrass, including European chafer, northern masked chafer, Asiatic garden beetle, Japanese beetle, oriental beetle, June beetle, annual bluegrass weevil, cutworm, sod webworm, chinch bug and billbug. The active ingredient in TETRINO provides control or suppression of listed pests when applications are made preceding or during the egg laying period. **RATE: 0.367-0.735 oz. per 1000 sq. ft. 4 x 1 gallons/case**



POLLINATOR WARNING: DO NOT APPLY MERIT SPRAYABLE INSECTICIDE OR ANY OTHER IMIDACLOPRID OR CLOTHIANDIN-BASED INSECTICIDE WHILE BEES ARE FORAGING. DO NOT APPLY TO PLANTS THAT ARE FLOWERING. ONLY APPLY AFTER ALL FLOWER PETALS HAVE FALLEN OFF. PROTECT POLLINATORS PLEASE!!!

When it comes to emerald ash borer (EAB) treatment options, D & K Products offers several great solutions for treatment and prevention of the destructive insect. The EAB is a small (1/2" long, 1/8" wide) metallic green beetle, native to Asia. Professionally applied insecticides can effectively and consistently protect even very large ash trees from EAB, even under intense pressure. However, unnecessary insecticide applications waste money. EAB infestations are very difficult to detect when populations are low, but once EAB has been detected within 10-15 miles, your trees may be at risk. Be aware of the status of EAB in your location.

Use of insecticides to control EAB require treatment during active growing periods of the tree (late April through September) to be effective. However, the optimal timing for best control of EAB is during the spring (mid-April through June). Timely treatment with proper products can successfully protect Ash trees from EAB, but it is important to note that treatments are only good for a certain period of time and will require future treatments until the EAB population pressure has diminished. It is recommended that this regimen be considered for the healthiest and most valuable or sentimental ash trees.

ARBORMECTIN
(Emamectin Benzoate)
EPA REG #83100-35-83979
\$ 590.00 quart

Arbormectin is a patent-pending water-based formulation created to provide fast-uptake and broad-spectrum control of some of the most difficult pests arborists face. Emerald ash borer, winter moth, Japanese beetle and gall wasp are all controlled through a single treatment. Arbormectin is for control of mature and immature insect and mite pests of deciduous, coniferous, and palm trees including, but not limited to, those growing in residential and commercial landscapes, parks, plantations, seed orchards, and forested sites (in private, municipal, state, tribal and national areas). Arbormectin is formulated to translocate in the tree's vascular system when injected. This product must be placed into active sapwood and **will actively control pests for up to two years.**

RATE: Dosages are based on the Diameter (in inches) of the tree at Breast Height ("DBH"). DBH is the outside bark diameter of the trunk at 4.5 feet above the ground on the uphill side of the tree. See label for details.

4 x 1 quarts per case



SYMTREE PODS
(Emamectin Benzoate)
\$240.00 per 6-pack of pods

SymTREE is the brand new redesign on the former EnTREE capsule system. SymTREE is a lower pressure micro tree injection solution for the Emerald Ash Borer (EAB). Each SymPOD comes pre-filled with 25 ml of the active ingredient emamectin benzoate 4% concentration, which when applied correctly, can effectively control EAB for up to two years. Install SymTREE into the tree's trunk using an electric drill with a 1/4 inch fast-spiral high-helix drill bit. One SymPOD is required for every 5 inches DBH for concurrent tree treatment with the SymTREE reloadable device. Uptake rate will vary depending upon tree health and environmental conditions. Holes made in the tree will heal naturally, so they do not need to be sealed. When the application is complete, simply dispose of the EB-SymPOD, and your reloadable SymTREE device can be used. No special handling is necessary. **RATE: Rate is based on tree DBH (diameter breast height). See label for details.**
6 pods per case, comes with two injector devices

ZYLAM
(Dinotefuran)
EPA REG #2217-937
\$ 160.00 per quart

A liquid formulation of dinotefuran, Zylam Liquid systemic insecticide provides exceptional control of a broad-spectrum of listed chewing and sucking insects. Used as a drench, soil injection or bark banding application, Zylam Liquid features translaminar activity to quickly move through the leaf and control insects that hide on the underside of leaf surfaces. Zylam Liquid controls scale, emerald ash borers, leaf hoppers, bagworms, mealybugs, Japanese beetles, aphids, to name a few. It's labeled for use on residential, golf course landscape areas, commercial/industrial areas, parks and school ground. It is ideal for use on non-bearing fruit and nut trees, evergreens, ornamental trees, shrubs, ground cover plants, foliage and non-bearing vines.

RATE: 79 oz./acre or 1.8 oz./1000 sq. ft.

For EAB control: mix 16 oz. per gallon of water and uniformly spray bark on lower 5 ft of trunk until bark is wet and spray is just beginning to runoff. Refer to label for details.

4 x 1 quarts per case



SAFARI 20 SG
(Dinotefuran)
EPA REG # 33657-59639
\$ 165.00 per lb. 3 lb. bottle
\$ 180.00 per 12 oz. bottle

Safari Insecticide, a super-systemic insecticide with quick uptake and knockdown, controls a broad-spectrum of ferocious and invasive pests, including Q- and B-biotype whitefly, hemlock woolly adelgid, emerald ash borer, mealybug, mountain pine beetle 2(ee), leafminer, fungus gnat, black vine weevil, glassy-winged sharpshooter, armored and soft scale and lacebug—some of the most costly pests that affect high value greenhouse and nursery crops such as poinsettia and hibiscus, as well as trees, shrubs and herbaceous ornamentals in the lawn and landscape market.

RATE: 4-8 oz./100 gallons or 8-16 oz./acre.

For Basal Bark Treatment of Emerald Ash Borer:

- Initiate treatment program when EAB is detected within 15 miles
- Apply from late May to early July
- Add 12 oz. of Safari 20 SG and 1 gallon of water to sprayer tank
- Uniformly spray bark on lower 5 ft. of trunk until bark is wet and spray is just beginning to runoff
- Operate sprayer at less than 20 PSI to minimize drift and bounce back of spray droplets
- Avoid application to wet bark or if rain is expected within 4 hours

THIS IS AN ANNUAL TREATMENT PRODUCT

In most cases, one gallon of Safari 20 SG spray solution will treat 40-50 cumulative inches of trunk diameter, or 4-5 ash trees that are 10" in diameter at breast height.

4 x 3 lb. or 16 x 12 oz. containers per case



A PLAN TO KEEP NATIVE GRASS STANDS PURE

Naturalized areas add beauty to a course and habitat for wildlife. Although naturalized areas require less maintenance than other course areas, care is still needed. Nufarm suggests a simple spray program to keep weeds at bay and native stands pure.

SOLUTION	FALL START WITH A MOW	SPRING MOW IF NEEDED	IN SEASON DO NOT MOW
SURE POWER® SELECTIVE HERBICIDE	APPLY 2 WEEKS AFTER MOW		SPOT SPRAY BROADLEAF WEEDS
	OR		OR
MILLENNIUM ULTRA® 2 SELECTIVE HERBICIDE	APPLY 2 WEEKS AFTER MOW	USE TO SAVE MILKWEED, APPLY WITH A PRE-EMERGENT	SPOT SPRAY BROADLEAF WEEDS
		OR	
4-SPEED® XT SELECTIVE HERBICIDE		APPLY WITH A PRE-EMERGENT	
SUREGUARD® SC SELECTIVE HERBICIDE	KEEP NATIVE AREAS CLEAN THROUGHOUT THE WINTER		
Q-BALL™ SELECTIVE HERBICIDE			SPOT SPRAY CRABGRASS
CELERO® SELECTIVE HERBICIDE			SPOT SPRAY SEDGES
CHEETAH® PRO* NON-SELECTIVE HERBICIDE			THIN AREAS
ALOFT®* INSECTICIDE		CHINCH BUG AND WORM CONTROL	
		OR	
ARENA®* INSECTICIDE		PREVENTIVE AND CURATIVE GRUB CONTROL	
ANUEW™ PLANT GROWTH REGULATOR		APPLY 6 OZ TO HOLD BACK GROWTH	

*OPTIONAL PER NEED

MONARCHS, MILKWEED, MILLENNIUM ULTRA 2

GO EASY ON MILKWEED WITH MILLENNIUM ULTRA® 2

Unlike other selective herbicides, Millennium Ultra 2 is easy on milkweed, allowing it to re-flower after initial suppression. Milkweed provides habitat for monarch butterflies, which makes Millennium Ultra 2 a natural fit for weed control in pollinator zones.

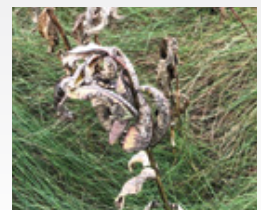
LEARN MORE: [NUFARM.COM/USTURF](https://www.nufarm.com/usturf)



UNTREATED



MILLENNIUM ULTRA® 2 + NIS



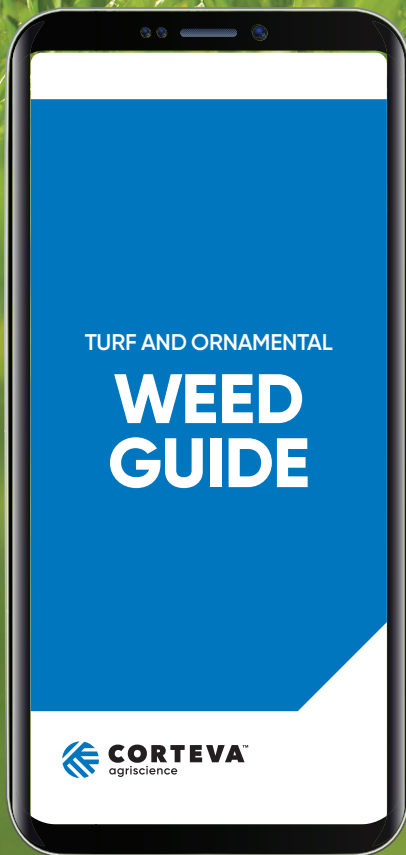
SURE POWER®



HERBICIDES
(ALL TYPES)

Effective weed control starts with accurate identification.

Get both with the Corteva Agriscience Weed ID Guide.



Scan the QR code for on-the-go expert weed identification and recommendations.



IDENTIFY & TREAT

80+

GRASSY & BROADLEAF WEEDS

BARRICADE 4 FL
(Prodiamine)
EPA REG #100-1139

\$ 166.50 per gallon for 4 x 1 gallons
\$ 1,590.00 per 10 gallon Linkpak
\$ 4,140.00 per 30 gallon Drum



Prevent weeds season long with a single application. Barricade 4FL herbicide controls susceptible weeds by preventing growth and development of newly germinated weeds. All applications must be made before the targeted weeds germinate; Barricade 4FL will not control weeds after they have already emerged. Barricade 4FL also offers programmable weed control; adjust application rate to dial in the length of weed control you need. **RATE: 0.23-0.48 oz./1000 sq. ft., 21 oz./acre = 0.65 Al. 4 x 1 gallons/case or 30 gallon drum**

BENSUMEC 4LF
(Bensulide)
EPA REG #2217-696

\$ 270.00 per gallon



Bensumec 4 LF Herbicide provides effective control of annual grasses, including crabgrass, *Poa annua*, and goosegrass, as well as many listed broadleaf weeds. Bensumec easily emulsifies to ensure complete mixing, and eliminates spray-tank layering or clogging, even with limited agitation. Bensumec 4LF features high turfgrass tolerance. **RATE: 5.6-7.3 oz./1000 sq. ft. for crabgrass, 9.4 oz./1000 sq. ft. for annual bluegrass 2 x 2.5 gallons/case**

BROADSTAR
(Flumioxazin)
EPA REG #59639-128

\$ 130.00 per bag



BroadStar is an odorless and dust-free granular pre-emergence herbicide that eliminates a broad-spectrum of annual broadleaf and grassy weeds such as spurge, bittercress, oxalis, common groundsel and crabgrass. Long-lasting BroadStar provides an exceptional value that allows you to offer more and make more—a perfect solution for your highest value customers. **RATE: 150 lbs./acre 50 lb. bags**

CREW
(Isoxaben, Dithiopyr)
EPA REG #62719-742

\$ 140.00 per bag



Crew specialty herbicide combines the power and proven safety of Dimension and Gallery specialty herbicides to offer a 2-in-1 solution for turfgrasses and landscape beds. Crew is safe to use on warm- and cool-season turfgrasses and over the top of more than 410 ornamentals. For preemergence control of broadleaf and grassy weeds and early postemergence crabgrass in: landscape ornamentals, established turfgrass (commercial and residential), 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. **RATE: 150-200 lbs./acre 50 lb. bags**

DEFENDOR
(Florasulam)
EPA REG #62719-560

\$ 207.00 per quart



Defendor specialty herbicide is a post-emergence product effective at pre-emergence timing. Designed to perform in cold weather, Defendor prevents dandelion bloom and controls other spring weeds before they're ever seen. Extremely effective control of dandelion, clover and other broadleaf weeds, including clover, carolina geranium, chickweed, dollarweed, knotweed, black medic and wild mustard. Apply in late fall or early spring when temperatures are still cool — a time when other post-emergence herbicides aren't effective. **RATE: 4 oz./acre 4 x 1 quarts/case**

DIMENSION 2EW
(Dithiopyr)
EPA REG #62719-542

\$ 315.00 per gallon for 2.5 gallons
\$ 165.00 per half gallon
\$ 8,200.00 per 30 gallon Drum



Dimension 2 EW provides both pre-emergent and early post-emergent control of crabgrass, goosegrass, foxtail, spurge and oxalis. This flexibility allows the user to apply early or late in the spring season. It's a great product to be used with a broadleaf herbicide or Defendor herbicide for extended control. It will not harm bentgrass or ornamentals. **RATE: 16-24 oz./acre. 16 oz. = 0.25 lb. Al. 2 x 2.5 gallons or 4 x .5 gallons/case, 30 gallon drums**

DIMENSION ULTRA
(Dithiopyr)
EPA REG #62719-445

\$ 170.00 per 40 oz. bag



A water soluble bag formulation of Dimension herbicide. The WSB provides a much reduced odor smell over the standard EC formulation. **RATE: 10-15 oz./acre, 10 oz. = 2 pouches = 0.25 lb. Al 8 x 8 x 5 oz. (20 lbs.)/case**

ESPLANADE 200 SC
(Indaziflam)
EPA REG #432-1516

\$ 1,437.44 per gallon in 2.5 gallons
\$ 465.00 per quart



Esplanade 200 SC delivers superior pre-emergent control of broadleaf weeds and grasses where warm-season turfgrass coverage is desired. It offers broad-spectrum weed control for large hardscapes, roadways and railroad sites. One pre-emergent application offers season-long control of more than 75 weed species. It uses significantly less product per acre than competitive standards. Esplanade 200 SC is labeled for use on kochia, horseweed/mares-tail, pigweed, Russian thistle, yellow starthistle, annual bromegrass, barnyardgrass, crabgrass, foxtails, goosegrass, sprangletop, tufted lovegrass, annual sedges and more. **RATE: 3.5-7 oz./acre 2 x 2.5 gallons per case**

PRE-EMERGENT HERBICIDES!

FREEHAND
(Dimethenamid, Pendamethalin)
EPA REG #7969-273
\$ 109.50 per bag



FreeHand 1.75G herbicide offers the ornamental grower and landscape manager a new tool for pre-emergence weed control of annual grasses, susceptible sedge species and many small-seeded broadleaf weeds. Introducing dimethenamid-P, a partner for pendimethalin and a new active ingredient for use in ornamentals. Freehand is labeled for use in containers, liner and field commercial nurseries, Christmas trees and other forest tree nurseries, landscape ornamentals in maintained areas (residential and commercial) and general grounds maintenance in specified non-crop areas. **RATE 100-200 lbs./acre 50 lb. bags**

GALLERY 75DF
(Isoxaben)
EPA REG #62719-145
\$ 180.00 per lb.



Gallery specialty herbicide is a pre-emergence product for the control of certain broadleaf weeds in established turfgrass, landscape ornamentals, field grown ornamentals, groundcovers/perennials, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vinyards, Christmas trees/conifer plantations and non-cropland areas. Apply in the late-summer to early fall, in the early spring, or anytime prior to germination of target weeds, or immediately after cultivation. **RATE: 0.66-1.33 lbs./acre 4 x 1 lb. per case**

GALLERY SC
(Isoxaben)
EPA REG # 62719-658
\$ 780.00 per gallon in 2.5 gallons
\$ 205.00 per quart



Gallery SC specialty herbicide is a convenient liquid formulation. The easy-to-use suspension concentrate formulation provides excellent plant tolerance and long-lasting control of more than 95 species of broadleaf weeds. **RATE: 16-31 oz./acre. 2 x 2 gallons or 12 x 1 quarts per case**

PENDULUM 2G
(Pendimethalin)
EPA REG #241-375
\$ 156.00 per bag



A straight granular formulation pre-emergent herbicide for use in lawns, sod and other turf areas. Pendulum 2G is also good in ornamental nurseries, established landscape ornamentals and ornamental gardens. Can be used on a wide variety of annuals and perennial beds. Refer to the label for a complete list of tolerable species. **RATE: 75-100 lbs./acre 40 lb. bag**

PENDULUM AQUACAP
(Pendimethalin)
EPA REG #241-416
\$ 145.00 per gallon in 2.5 gallons
\$ 990.00 per 15 gallon drum



A water-based formulation of Pendulum 3.3 EC. This formulation is a water microencapsulated capsule of the EC formulation. This allows you to apply this product with reduced staining. **RATE: 1.1-1.5 oz./1000 sq. ft. 2 x 2.5 gallons per case or 15 gallon drum**

PENNANT MAGNUM
(S-Metolachlor)
EPA REG #100-950
\$ 415.00 per gallon



A formulation of the grassy weed pre-emergent that can be used with Roundup for year-round chemical weed and grass control. Pennant Magnum can be used on a wide variety of annuals. It is also the only herbicide that can be sprayed over-the-top of ornamental plants for nutsedge control. Refer to the label for directions. **RATE: 0.75 oz./1000 sq. ft. 4 x 1 gallons per case**

PRINCEP LIQUID
(Simazine)
EPA REG #100-526
\$ 60.00 per gallon



Princep Liquid herbicide provides turf professionals with a tool to use in the fall to control a number of pesky winter annual weeds including *Poa annua*. It can be used on bermuda, centipede, St. Augustine and zoysia. It enters the weed through the roots to inhibit growth. It can be tank-mixed with Pennant Magnum herbicide to control additional weeds. Safe to use for winter weed control on semi-dormant turf with no green-up delay. **RATE: 1-2 quarts/acre 2 x 2.5 gallons per case**

PRODIAMINE 65 WDG
(Prodiamine)
EPA REG #66222-89-73220
\$ 35.00 per lb.

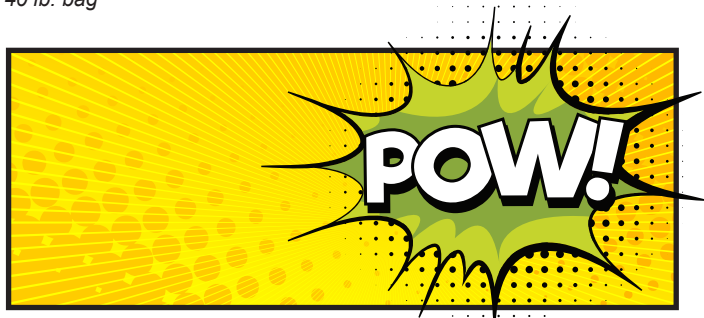


Prodiamine 65 WDG is pre-emergence control of grass and broadleaf weeds in established turfgrasses (excluding golf course putting greens), lawns and sod nurseries, container, field-grown, and landscape ornamentals, established perennials and wildflower plantings, and Christmas tree farms. **RATE: 1 lb./acre delivers 0.65 lbs. At 6 x 5 lb. bags per case**

RESOLUTE 4FL
(Prodiamine)
EPA REG #100-1139
\$ 156.00 per gallon



Resolute 4FL controls susceptible weeds by preventing growth and development of newly germinated weeds. Control is most effective when activated by at least 0.5 inch of rainfall/irrigation or shallow incorporation (1-2 inches) before weed seeds germinate. For selective preemergence control of grass and broadleaf weeds in: lawns, sod nurseries, container, field-grown, and landscape ornamentals, perennial and wildflower plantings, Christmas tree farms. **RATE: 0.5 oz./1000 sq. ft. 4 x 1 gallons per case**



RONSTAR FLO
(Oxadiazon)
EPA REG #432-1465
\$ 215.00 per gallon



Ronstar herbicide controls weeds through shoots, not roots. So unlike competitive products that don't distinguish between roots of weeds and roots of desirable plants, Ronstar doesn't harm healthy turf. This product can be applied to sensitive grasses and areas where roots are already weakened by winterkill, pests or injury. One pre-emergent application – even in cold weather, or weeks before seed germination – controls weeds all season long. Suitable for both broadleaf and grassy weeds.
RATE: 1.85-2.8 oz./1000 sq. ft. 2 x 2.5 gallons

SNAPSHOT 2.5 TG
(Trifluralin + Isoxaben)
EPA REG #62719-175
\$ 145.00 per bag



A selective pre-emergent herbicide for the control of certain broadleaf weeds and annual grasses in container and landscape ornamentals, nursery stock, Christmas trees, groundcovers/perennials, non-bearing fruit and nut trees, non-bearing vineyards and non-cropland areas. Apply anytime prior to germination of target weeds, or immediately after cultivation. Snapshot is the combination of Treflan and Gallery pre-emergent herbicides. **RATE: 100-200 lbs./acre depending on the desired weeds to be controlled. 50 lb. bags**

SPECTICLE FLO
(Indaziflam)
EPA REG #432-1518
\$ 309.30 per 18 oz. bottle
\$ 2,031.20 per gallon



Specticle FLO is a new tool for pre-emergent weed control, providing broad-spectrum control of grassy weeds including *Poa annua*, crabgrass, goosegrass and more than 60 broadleaf weeds. This is a new, easy-to-measure formulation with a low use rate, resulting in effective applications with up to 40 times less active ingredient. An excellent new herbicide for use in landscape beds, gravel lots or anywhere where season-long grass and weed control is desired. **RATE: 6-9 oz./acre. Do not exceed 10 oz. per acre in a single application or 8.5 oz. per acre in one year. 8 x 18 oz. or 2 x 1 gallons per case**

SPECTICLE G
(Indaziflam)
EPA REG #432-1523
\$ 125.50 per bag



Specticle G is a versatile, pre-emergent herbicide that sets a new standard for residual control at the lowest use rates on the market. It helps maintain premium, weed-free landscape beds for the entire growing season, making it one of the most effective tools in any turf manager's arsenal. It provides up to six months of broad-spectrum control against more than 90 broadleaf and grassy weeds, plus annual sedges.
RATE: 150-200 lbs./acre or 3.44-4.6 lbs./1000 sq. ft. 50 lb. bags

SUREGUARD SC
(Flumioxazin)
EPA REG #71368-114
\$ 590.00 per 64 oz.
\$ 205.00 per pint



SureGuard SC provides an exceptional value that allows you to offer more and make more, a perfect solution for your customers. SureGuard SC delivers the same long-lasting residual control of grass and broadleaf weeds that you've come to expect from SureGuard in a convenient liquid formulation. SureGuard SC enhances the speed and spectrum of glyphosate when used as a tank mix partner, even on glyphosate resistant weeds. Sureguard is approved for aquatic and bareground control. (See Aquatic Tab for Aquatic uses).
RATE: 8-12 oz./acre for weed control, 6-12 oz./acre for aquatic 4 x 64 oz. or 4 x 1 pints per case

TENACITY
(Mesotrione)
EPA REG #100-1267
\$ 915.50 per gallon
\$ 130.00 in 8 oz. bottles



Tenacity can be used for pre- and post-emergence control of more than 46 broadleaf weed and grass species. Its active ingredient, mesotrione, is based on a naturally occurring compound produced by the bottlebrush plant that inhibits photosynthesis in susceptible plant species. It is absorbed by plants through the roots, shoots and leaves and distributed throughout the plant by both xylem and phloem translocation. Great post-emergent option for the control of nimblewill in bluegrass, ryegrass or fescue. It will also remove bentgrass from bluegrass. Weeds controlled with pre-emergent applications of Tenacity: crabgrass, foxtail, creeping bentgrass, chickweed, clover, and suppression of *Poa annua*. Post-emergent controlled weeds: barnyardgrass, creeping bentgrass, nimblewill, dandelion, white clover, goosegrass, ground ivy, henbit, purslane to name a few. Please refer to the label for a complete list. **RATE: 5-8 oz./acre. 4 x 1 gallons per case or 8 oz. bottles**

TOWER
(Dimethenamid-P)
EPA REG #7969-239
\$ 394.50 per gallon



Tower is a broad-spectrum pre-emergence herbicide with a new active ingredient, dimethenamid-p, for use in golf course turfgrass and ornamental landscape management. Highly effective on many small-seeded broadleaf weeds, Tower also controls numerous grassy weeds, several annual sedges and yellow nutsedge. Tower controls susceptible weed species as an inhibitor of shoot formation and cell development. Application timings can take advantage of a wider use pattern with pre-emergence applications on hard-to-control species such as goosegrass, as well as broadleaf weeds such as spurge and doveweed. **RATE: 21-32 oz./acre 2 x 2.5 gallons per case**

PRE-EMERGENT HERBICIDES!

TRAMMEL DG PRO (Treflan 5G)
(Trifluralin)
EPA REG #9198-237
\$ 52.00 per 40 lb. bag

Trammel DG Pro is dispersible granule formulation for Treflan 5G. Trammel is a pre-emergent herbicide for the control of annual grasses and annual broadleaf weeds in landscape ornamentals, ground covers, established flowers, ornamental bulbs and non-bearing vineyards. Some of the weeds and grasses controlled are barnyard-grass, brome, crabgrass, cheat, foxtail, goosegrass, field sandbur, chickweed, knotweed, spurge and Russian thistle to name a few. Refer to the bale for a complete list. **RATE: 1.8 lbs./1000 sq. ft. 40 lb. bag**



TRIONE XL
(Mesotrione)
EPA REG #91234-75-86064
\$ 415.00 per gallon

ArmorTech Trione XL is used during turf establishment and renovation projects to prevent or eliminate weeds and reduce competition with emerging turf-grass. Labeled for use on commercial and residential turf including golf courses (excluding putting greens), sod farms, sports turf and other areas. Controls Kentucky bluegrass, centipede grass, buffalograss, tall fescue, perennial ryegrass, fine fescue, St. Augustine grass (grown for sod). **RATE: 4-8 oz./acre 4 x 1 gallons**



BROADLEAF HERBICIDES!

2,4-D AMINE
EPA REG #228-145
\$ 45.00 per gallon

An amine formulation of 2,4-D that can be used when the temperatures get too warm for Ester. 2,4-D is the basic broadleaf component to just about all other broadleaf herbicides. Used alone it will control just the most basic of broadleaf weeds, but best used as a tank mix partner with other herbicides. **RATE: 2-4 pints per acre. 2 x 2.5 gallons/case.**



AQUASWEEP
(2-4 D + Triclopyr)
EPA REG #228-316
\$ 114.00 per gallon *CLOSEOUT PRICE**

The first liquid premix with full terrestrial and aquatic uses. Aquasweep offers outstanding broad-spectrum control of broadleaf weeds, invasive and noxious weeds, trees and brush. Provides control of emergent, floating and submerged aquatic weeds. It provides selectivity for grasses, allowing excellent recolonization. Some of the turfgrass broadleaf weeds Aquasweep is labeled are black medic, ground ivy, dandelion, cocklebur, clover, chickweed, mustard, wild violet, and poison ivy. Also labeled for range and pasture-lands. **RATE: 1-2 quarts in enough water to make 20-200 gallons total sprayer per acre 2 x 2.5 gallons/case**



2,4-D ESTER
EPA REG #42750-15
\$ 55.00 per gallon

An ester formulation of 2,4-D that can be used when the temperatures are cool in the spring and fall, 2,4-D is the basic broadleaf component to just about all other broadleaf herbicides. Used alone it will control the most basic of broadleaf weeds, but best used as a tank mix partner with other herbicides. **RATE: 2-4 pints/acre. 2 x 2.5 gallons/case**

2-D HERBICIDE
(Triclopyr + Clopyralid)
EPA REG #53883-377
\$ 125.00 per gallon

2-D is labeled for the control of annual and perennial broadleaf weeds in established turfgrass, including sod farms, rangeland and permanent grass pastures, roadsides, CRP land and other non-crop areas. Contains 33% Triclopyr and 12.1% Clopyralid. **RATE: 0.37-0.74 oz./1000 sq. ft. 4 x 1 gallons/case**



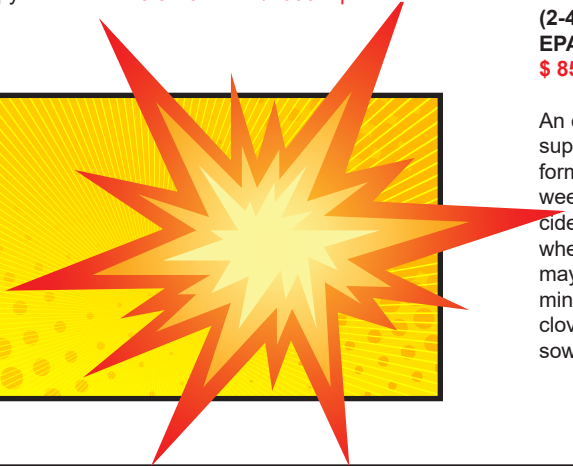
CHASER 2 AMINE
(2,4-D Amine + Triclopyr)
EPA REG #34704-930
\$ 85.00 per gallon

A superior warm weather broadleaf herbicide. Its amine formulation controls a wide spectrum of broadleaf weeds, including hard-to-kill weeds that other herbicides will not. For use on fence rows, non-irrigation ditchbanks, roadsides, other non-crop areas, industrial sites and rights-of-way. Labeled for the control of clover, dandelion, cocklebur, oxalis, black medic, chickweed, ground ivy and wild violet to name a few. Refer to the label for a complete list. **RATE: 1-1.5 oz./1000 sq. ft. 2 x 2.5 gallons/case**



CHASER TURF
(2-4 D Ester + Triclopyr)
EPA REG #34704-928
\$ 85.00 per gallon

An ester formulation of Chaser Amine, Chaser Turf is a superior cool-weather broadleaf herbicide. It is an ester formulation that controls a wide-spectrum of broadleaf weeds, including hard-to-kill weeds that other herbicides will not. Foliage sprays should be applied during warm weather when weeds are actively growing. Application under drought conditions may provide less than desirable results. Use low spray pressures to minimize spray drift. Labeled for the control of black medic, chickweed, clover, dandelion, ground ivy, henbit, purslane, plantain, poison ivy and sowthistle to name a few. **RATE: 1-2 quarts/acre 2 x 2.5 gallons/case**



CONFRONT
(Triclopyr + Clorpyralid)
EPA REG #62719-92
\$ 253.00 gallon



A non-phenoxy broad-spectrum weed killer for control of annual and perennial broadleaf weeds in ornamental turf. It's best known for its outstanding control of clover. Confront is ideal for high-use areas, including golf courses, parks, commercial grounds and other public facilities. It is no longer labeled for use on residential turf. **RATE: 1-2 pints/acre. 4 x 1 gallons/case.**

COOL POWER
(MCPA + Triclopyr + Dicamba)
EPA REG #228-317
\$ 70.00 per gallon *CLOSEOUT PRICE**



A non 2,4-D 3-way Ester herbicide that is designed to be used on hard to control weeds. Do not spray when the air temperatures exceed 85 degrees. Not to be used on sod farms or on bentgrass. Some weeds labeled for control include, Canada thistle, carpetweed, cocklebur, poison oak, poison ivy, wild violets, plus many others. Refer to the label for details. **RATE: 1.5 oz./1000 sq. ft. 2 x 2.5 gallons/case or 30 gallon drums**

ESCALADE 2
(2,4-D + Fluroxypyr + Dicamba)
EPA REG #228-442
\$ 161.00 per gallon



Escalade 2 is a premium combination herbicide that uses the advanced new fluroxypyr active to quickly control a comprehensive spectrum of broadleaf weeds in turfgrass. Also an innovative formulation, Escalade 2 will eradicate most broadleaf weeds from turfgrass and provides unsurpassed control of clover. It effectively controls more than 100 broadleaf weeds, including dandelion, plantain, oxalis, chickweed and other hard to control species. **RATE: 0.75 oz. in 0.5-5.5 gallons of water/1000 sq. ft. 2 x 2.5 gallons/case**

GAME ON
(2,4-D Choline salt + Fluroxypyr meptyl + Halauxifen-methyl)
EPA REG #62719-724
\$ 79.00 per gallon



GameOn specialty herbicide, a cutting-edge formulation, delivers exceptional broad-spectrum post-emergence broadleaf weed control. GameOn includes a new active ingredient, Arylex, as well as 2,4-D, choline and fluroxypyr. GameOn delivers fast-acting systemic control of more than 100 broadleaf weeds on nonresidential turf, including golf courses, industrial sites, commercial sod farms, cemeteries and unimproved turfgrass areas. (Residential use label expected to be added soon) **RATE: 3-4 pints/acre (1.1-1.5 oz./1000 sq. ft.) 2 x 2.5 gallons/case**

GARLON 3A
(Triclopyr)
EPA REG #62719-37
\$ 135.00 per gallon



Garlon 3A provides superior woody plant and broad-leaf weed control, while maintaining the integrity of roadsides or rights-of-way. Broad-spectrum brush and broadleaf weed control that translocates to control the entire plant, shoots and roots. It is selective to warm- and cool-season right-of-way grasses, including fescue, brome and native grass species. Garlon 3A is labeled for foliar applications as well as applications to emerged weeds and brush in standing water or on banks and shores of ponds or lakes found on rights-of-way or production forests. It is rainfast within two hours. **RATE: 2-5 pints/acre 2 x 2.5 gallons/case**

GARLON 4 ULTRA
(Triclopyr)
EPA REG #62719-527
\$ 172.00 per gallon



Garlon 4 Ultra is the industry standard for basal cut-stump, basal bark and dormant stem treatments, delivering excellent broad-spectrum control of woody plants even after other products call it quits for the season. It is a patented, non-petroleum-based, plant-derived seed oil solvent, reducing environmental impact. It demonstrates increased efficacy on multiple woody species, including mesquite, sweetgum and scotch broom compared to other formulations of triclopyr ester. It offers broad-spectrum control of brush and broadleaf weeds. **RATE: 1-8 quarts/acre 2 x 2.5 gallons/case**

HAMMERDOWN
(2, 4-D + MCPA + Dicamba)
EPA REG #89442-22
\$ 43.50 per gallon for 2.5 gallons
\$ 42.50 per gallon for 30 gallon drum
\$ 42.00 per gallon for 55 gallon drum
\$ 40.00 per gallon for 265 gallon mini drum

Ignition Hammerdown selective herbicide utilizes a combination of three selective herbicides to control a wide variety of hard-to-kill broad-leaf weeds, such as dandelion, clover and plantain. Hammerdown has been demonstrated through university trials, to be an effective solution that can be safely applied to both cool and warm season grasses. Hammerdown is a low odor formulation that may be applied to woody brush in non-cropland areas and be tank mixed with liquid fertilizers or liquid iron materials. **RATE 1.1-1.5 oz./1000 sq. ft. 2 x 2.5 gallons/case, 30 and 55 gallon drums, 265 gallon totes**

HORSEPOWER
(MCPA + Triclopyr + Dicamba)
EPA REG #228-313
\$ 139.00 per gallon



A non 2,4-D Amine formulation broadleaf herbicide that is great to use during the warmer months. Horsepower controls hard to control weeds such as chickweed, clover, oxalis, spurge, wild violets and many others. Refer to the label for a complete list of weeds controlled. Horsepower is a great summertime herbicide option as it can be applied in air temperatures up to 90 degrees. **RATE: 0.73-1.1 oz./1000 sq. ft. 2 x 2.5 gallons/case**

BROADLEAF HERBICIDES!

LONTREL
(Clopyralid)
EPA REG #62719-305
\$ 310.00 per quart

Lontrel provides a high level of turf safety while offering superior post-emergence control of clover, dandelion, thistle and dollarweed. Lontrel is labeled for use on both warm- and cool-season turf, but sets the standard for safety to turf in closely mowed bentgrass and bermudagrass fairways. Also for control on non-residential turf, including sod farms and certain ornamental plantings. **RATE: 0.33-0.5 pints/acre. 12 x 1 quarts/case**



NATIVEKLEAN
(Aminopyralid + 2,4-D)
EPA REG #62719-730
\$ 133.00 per gallon

Designed for native/naturalized areas, NativeKlean provides a low-maintenance solution for consistent control of broadleaf weeds. It offers effective control or suppression of more than 100 invasive and noxious weeds. With one simple application per season, it reduces native area management, so you can focus resources on the primary playing areas of your course. **RATE: 19-34 oz./acre 4 x 1 gallons/case**



MCP-P 4 Amine
(Mecoprop)
EPA REG #228-192
\$ 88.00 per gallon

MCP-P 4 Amine is labeled for the control of clover, chickweed, plantain, knotweed and morning glory. MCP-P is labeled for use on bluegrass, fescue, bentgrass on fairways and greens. **RATE: 1 oz./1000 sq. ft. on greens, 1.5 oz./1000 sq. ft. on fairways and lawns 2 x 2.5 gallons/case**



QUICKSILVER
(Carfentrazone)
EPA REG #279-3265
\$ 330.00 per 8 oz.

Quicksilver is a contact herbicide with little or no residual activity that provides selective post-emergence control of broadleaf weeds in turfgrass. Quicksilver is rainfast within one hour. Complete desiccation and death occurs with 7-14 days. It is best known for its control of moss on putting greens and tees. Labeled for use on several broadleaf weeds, but should be mixed with a phenoxytype herbicide for complete control of all hard to control weeds. **RATE: 1.0-2.1 oz./1000 sq. ft. by itself, 0.9-1.5 oz. in combination with a trimec-type product. FOR MOSS CONTROL: Use 6.7 oz./acre (0.154 oz./1000 sq. ft.) followed by another application in two weeks at the same rate. Available in 8 oz. bottles**



MEC AMINE-D
(2,4-D + Mecoprop-p + Dicamba)
EPA REG #34704-239

\$ 43.00 per gallon for 2.5 gallons
\$ 42.00 per gallon for 30 gallon drum
\$ 42.00 per gallon for 55 gallon drum
\$ 40.00 per gallon for 250 gallon mini drum

Mec Amine-D is a basic three-way post-emerge broadleaf herbicide for selective broadleaf weed control in turfgrasses. It controls clover, plantains, henbit, dandelion, wild onion and other broadleaf weeds. Labeled for use on lawns and ornamental areas, including parks, golf courses, cemeteries, athletic fields, sod farms and highways. **RATE: 1.1-1.5 oz./1000 sq. ft. 2 x 2.5 gallons/case, 30 & 55 gallon drums, 250 gallon mini drums**



SPEEDZONE EW
(2,4-D + MCP-P + Dicamba + Carfentrazone)
EPA REG #2217-1053
\$ 130.00 per gallon for 2.5 gallons
\$ 130.00 per gallon for 1 gallon

SpeedZone EW herbicide features a novel, emulsion-in-water (EW) formulation – a technological advance from EC formulations that rely on solvents to solubilize active ingredients. The EW formulation is engineered for use in low-volume and conventional sprayers. Ideal for use on golf courses, residential and commercial turf areas, it controls more than 90+ tough broadleaf weeds, including dollarweed, ground ivy, and spurge. It is labeled for use on Kentucky bluegrass, annual bluegrass, annual ryegrass, perennial ryegrass, and tall fescue. You'll see a visual response within 24 hours, weed death in 7-14 days, and rainfast in as little as three hours. Allows for reseeding in one week. **RATE: 3-5 pints/acre 2 x 2.5 gallons or 4 x 1 gallons/case**



MILLENNIUM ULTRA 2
(2,4-D + Clopyralid + Dicamba)
EPA REG #228-332
\$ 98.00 per gallon for 2.5 gallons
\$ 96.00 per gallon for 30 gallon drums

Millennium Ultra 2 is a selective herbicide that is labeled for use on a wide range of weeds. Some of which include dandelion, chickweed, black medic, knotweed, plantain, oxalis, clover, and thistle. Millennium Ultra 2 is no longer labeled for use on residential turf, but is an excellent option for broadleaf control on golf and commercial turf. **RATE: 2-3 pints/acre 2 x 2.5 gallons/case or 30 gallon drums**



SURE POWER
(2,4-D + Triclopyr + Fluroxypyr + Flumioxazin)
EPA REG #228-741
\$ 87.00 per gallon

Sure Power is a new standard in herbicide power, providing swift early-season and late-season control to strike down challenging broadleaf weeds. In fact, broad-spectrum Sure Power is proven to produce excellent control of ground ivy and wild violet. Its four-way formulation manages more than 250 broadleaf weeds, making Sure Power a valued tool in the pursuit of clean, cool-season turf. It is ideal for early- and late-season application and is rainfast after one hour. **RATE: 0.73-1.28 oz./1000 sq. ft. 2 x 2.5 gallons/case**



SURGE

(Sulfentrazone + 2,4-D + MCPP + Dicamba)

EPA REG #2217-867

\$ 99.00 per gallon for 2.5 gallons

\$ 100.00 per gallon for 1 gallons

\$ 2250.00 per 30 gallon drum



A broadleaf herbicide for use in turfgrass. Surge is a low odor, water-based herbicide that has great control of most broadleaf weeds, such as dandelion, clover, thistle, knotweed, ground ivy, oxalis and many more. Refer to the label for details. Surge provides an amine option for fast weed control in warmer weather. It can be applied in temperatures up to 90 degrees. Surge also provides suppression of young and actively growing yellow nutsedge. **RATE: Refer to the label for details. 2 x 2.5 gallons or 4 x 1 gallons/case, 30 gallon drums**

TRIMEC 1000 LOW ODOR

(2,4-D + MCPP + Dicamba)

EPA REG #2217-529

\$ 88.00 per gallon for 2.5 gallons



Trimec 1000 Low-Odor Broadleaf Herbicide delivers post-emergence control of tough broadleaf weeds, including clover, dandelion, chickweed, plantain, and many more. A mixed-amine formulation, Trimec 1000 contains four powerful ingredients formulated to help translocate through the plant and into the roots of even the most deep-rooted perennials. Trimec 1000 is rainfast in as little as eight hours, and treated areas can be reseeded in three weeks. **RATE: 3-4 pints/acre or 1.1-1.5 oz./1000 sq. ft. 2 x 2.5 gallons/case**

TRICLOPYR 4E SELECT

(Triclopyr)

EPA REG #89442-51

\$ 115.00 per gallon



Triclopyr 4E Select is an emulsifiable, oil-soluble liquid herbicide that targets woody plants and annual and perennial broadleaf weeds. It can be applied as a basal bark or as a foliar spray. When used as a foliar spray, it only affects woody plants that are fully leafed at the time of application and herbaceous plants that have emerged from the ground. Small amounts of this product can injure non-target crops and plants, so follow the label directions carefully. Recommended for application to areas such as ornamental turf, rangeland, rights of way, grass pastures, non-crop areas, and industrial sites. **RATE: 1-8 quarts/acre 2 x 2.5 gallons/case**

TZONE SE

(Triclopyr + Sulfentrazone + 2,4-D + Dicamba)

EPA REG #2217-920

\$ 107.00 per gallon for 2.5 gallons

\$ 2,500.00 per 30 gallon drum



TZone SE for tough weeds uses the proven performance of triclopyr and precise ratios of multiple active ingredients to provide effective cool-weather weed control in a speed product. TZone SE kills wild violet, ground ivy, oxalis, clover, and the toughest broadleaf weeds in turf, and provides suppression of young and actively growing yellow nutsedge. Ideal for use on residential and commercial lawns and golf courses. Please refer to the label for details and a complete list of the weeds controlled. **RATE: 1.2-1.5 oz./1000 sq. ft. 4 x 1 gallons, 2 x 2 1/2 gallons, 12 x 1 quarts per case, 30 gallon drum**

TRIMEC BENTGRASS

(2,4-D + MCPP + Dicamba)

EPA REG #2217-529

\$ 100.00 per gallon



Trimec Bentgrass formula provides superior post-emergence broadleaf weed control in bentgrass greens and other sensitive grasses. Especially effective in controlling clover, red sorrel, knotweed, spotted spurge, chickweed, and dandelion, it provides dependable broadleaf weed control for bentgrass greens, tees, fairways and aprons. It's also registered for use on buffalograss, centipedegrass, and St. Augustinegrass, and is effective in temperatures as low as 50°F. Do not spot spray with this product. **RATE: 3-4 pints/acre or 1.1-1.5 oz./1000 sq. ft. 4 x 1 gallons or 2 x 2.5 gallons/case**

VESSEL

(2,4-D + MCPP + Dicamba)

EPA REG #2217-656-72112

\$ 49.00 per gallon for 1 gallon

\$ 43.00 per gallon for 2.5 gallons

\$ 1,300.00 per 30 gallon drum

\$ 2,400.00 per 55 gallon drum

\$ 11,100.00 per 275 gallon tote



Vessel is the same product as Trimec 992 and MecAmine D. Vessel is the PROKOZ-branded Trimec 992, made by PBI-Gordon. The PROKOZ buying group saves you money by bulk-buying branded products. Vessel broadleaf herbicide is used for the control of a wide spectrum of broadleaf weeds on turf. Some weeds controlled are dandelion, chickweed, knotweed and spurge. Save your money and purchase Vessel. **RATE: 1.0-1.5 oz./1000 sq. ft. 2 x 2.5 gallons, 4 x 1 gallons, 30 gallon drum, 55 gallon drum, and 275 gallon tote**

TRIMEC CLASSIC

(2,4-D + MCPP + Dicamba)

EPA REG #2217-529

\$ 106.00 per gallon for 1 gallon

\$ 102.00 per gallon for 2.5 gallons



Trimec Classic delivers proven control of more than 90 broadleaf weeds, including clover, dandelion, plantain, thistle and chickweed. The synergistic action of its formulation helps keep the cost-per-acre low, and it won't harm most turfgrass species when used as directed. It's labeled for use on fescues, Kentucky and annual bluegrass, ryegrass, Bermudagrass, zoysiagrass and bahiagrass. **RATE: 3-4 pints/acre or 1.1-1.5 oz./1000 sq. ft. 4 x 1 gallons or 2 x 2.5 gallons/case**





Employee-Owned

SEEDING GUIDE



Employee-Owned

SEEDING GUIDE

Performance Product	Reseeding Interval	Post-Seeding App Interval	Max App Temp	Rates
Avenue™ South Broadleaf Herbicide For Turfgrass	4 weeks	Not Specified	Not specified	Improved varieties of St. Augustinegrass: 1.1 to 1.8 fl. oz./1,000 sq. ft.
				Most warm-season turfgrass: 1.3 to 1.8 fl. oz./1,000 sq. ft.
Katana® Turf Herbicide	2 or 4 weeks (see label)	Until well-established	Not specified	Most warm-season turfgrass: 0.5 to 3.0 oz./Acre
				Most cool-season turfgrass: 1.3 to 1.8 fl. oz./1,000 sq. ft.
PowerZone® Broadleaf Herbicide for Turf	2 weeks	After 2nd mowing	90°F	Most warm-season turfgrass: 0.75 to 1.5 fl. oz./1,000 sq. ft.
				Most cool-season turfgrass: 1.3 to 1.8 fl. oz./1,000 sq. ft.
Q4® Plus Turf Herbicide for Grassy & Broadleaf Weeds	1 week (KY bluegrass: 2 weeks)	After 2nd or 3rd mowing or 28 days after emergence	90°F	Most cool-season turfgrass: 2.6 to 3.0 fl. oz./1,000 sq. ft.
				Most warm-season turfgrass: 1.8 to 2.6 fl. oz./1,000 sq. ft.
SpeedZone® EW Broadleaf Herbicide for Turf	1 week	After 2nd mowing	Refer to Label	Most cool-season turfgrass: 1.1 to 1.8 fl. oz./1,000 sq. ft.
				Most warm-season turfgrass: 0.75 to 1.5 fl. oz./1,000 sq. ft.
SpeedZone® Southern EW Broadleaf Herbicide for Turf	1 week	After 2nd mowing	Refer to Label	Most cool-season turfgrass: 1.5 to 2.2 fl. oz./1,000 sq. ft.
				Most warm-season turfgrass: 0.7 to 1.5 fl. oz./1,000 sq. ft.
Surge® Broadleaf Herbicide for Turf	3 weeks	After 2nd mowing	90°F	Most cool-season turfgrass: 1.2 to 1.5 fl. oz./1,000 sq. ft.
				Most warm-season turfgrass: 1.0 to 1.2 fl. oz./1,000 sq. ft.
TZone™ SE Broadleaf Herbicide for Tough Weeds	3 weeks	After 2nd or 3rd mowing	85°F	Most cool-season turfgrass: 1.2 to 1.5 fl. oz./1,000 sq. ft.
				Most warm-season turfgrass: 0.75 to 0.83 fl. oz./1,000 sq. ft.
Vexis® Herbicide Granular	3 weeks	3 weeks	Not specified	All turfgrass species: 2 lb./500 sq. ft. (174 lb./acre)



This information does not constitute a label. Always read and follow label directions.

Trimec® Product	Reseeding Interval	Post-Seeding App Interval	Max App Temp	Rates
Trimec® Classic Brand Broadleaf Herbicide	3–4 weeks	After 2nd or 3rd mowing	90° F	See label for specific rates and turf species
Super Trimec® Broadleaf Herbicide	3–4 weeks	Until well-established	85° F	Most cool-season turfgrass: 0.75 to 1.1 fl. oz./1,000 sq. ft.
Trimec® Encore® Broadleaf Herbicide	3–4 weeks	After 2nd or 3rd mowing	90° F	Most cool-season and warm-season turfgrass: 1.1 to 1.5 fl. oz./1,000 sq. ft. Closely mown bentgrass: 1.0 fl. oz./1,500 sq. ft.
Trimec® Southern Broadleaf Herbicide for Sensitive Southern Grasses	3–4 weeks	After 2nd or 3rd mowing	90° F	See label for specific rates and turf species
Trimec® Broadleaf Herbicide Bentgrass Formula	3–4 weeks	After 2nd or 3rd mowing	85° F	Cool-season and warm-season turfgrass: 1.1 to 1.5 fl. oz./1,000 sq. ft.
Trimec® 1000 Low Odor Broadleaf Herbicide	3 weeks	After 2nd mowing	90° F	Most cool-season turfgrass: 0.66 to 1.5 fl. oz./1,000 sq. ft. Most warm-season turfgrass: 1.1 to 1.5 fl. oz./1,000 sq. ft.
Trimec® 992 Broadleaf Herbicide	3 weeks	After 2nd mowing	90° F	Most cool-season turfgrass: 0.66 to 1.5 fl. oz./1,000 sq. ft. Most warm-season turfgrass: 1.1 to 1.5 fl. oz./1,000 sq. ft.



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POST-EMERGENT HERBICIDES!

ACCLAIM EXTRA
(Fenoxaprop-ethyl)
EPA REG #432-950
\$ 1,300.00 per gallon



Acclaim is a post-emergent control of annual and perennial weeds, including hard and soft crabgrass, goosegrass, barnyardgrass, foxtail, and johnsongrass. Safe to use on established perennial ryegrasses, fine fescues, tall fescues, and bluegrass. Acclaim is labeled for use on some varieties of bentgrass. Spraying with a fine tip is recommended and control is best when used on warmer days. **RATE: 0.08-0.9 oz./1000 sq. ft. 4 x 1 gallons/case**

CELERO
(Imazosulfuron)
EPA REG #59639-155
\$ 217.00 per lb.



Celero herbicide is a selective, post-emergence herbicide for control of sedges, including kyllinga, in established residential and commercial turfgrass, golf courses and sod farms. Imazosulfuron, the active ingredient in Celero, is a systemic sulfonylurea (SU) herbicide that translocates down to the roots to deliver superior sedge control. **RATE: 0.25-0.33 oz./1-2 gallons for spot applications 4 x 1 lb./case**

ARKON
(Pyrimisulfan)
EPA REG #2217-1072
\$ 197.00 per gallon in 1 gallon
\$ 195.00 per gallon in 2.5 gallons



Arkon herbicide delivers post-emergence control of sedges and kyllingas, and listed broadleaf weeds on cool and warm-season turfgrass across a wide variety of use sites. And Arkon is proven to reduce the number and viability of nutsedge tubers. Arkon works best if allowed to dry on the plant, however, Arkon does have rootzone activity so if there is rain or irrigation within the first 2-3 hours following application it will still work to control labeled weeds. **RATE: 1.2-1.7 oz./1000 sq. ft. 4 x 1 gallons or 2 x 2.5 gallons/case**

CERTAINTY
(Sulfosulfuron)
EPA REG #524-534
\$ 161.00 each



Certainty provides unique opportunities for selective, post-emerge weed control in warm-season turf and ornamentals. It offers the flexibility to be applied to a wide range of warm-season turfgrasses, including bermudagrass, bahiagrass, buffalograss, centipedegrass, kikuyugrass, seashore paspalum, St. Augustinegrass and zoysiagrass. Labeled for use in residential and commercial sites, sod farms and certain golf course applications, including native warm-season grass sites. It is the ideal choice for selective weed control in managed turf or landscape settings. **RATE: 0.75-2.0 oz./acre 10 x 0.25 oz./case**

BASAGRAN T&O
(Sodium Salt of Bentazon)
EPA REG #7969-326
\$ 116.00 per gallon



Basagran T&O herbicide offers reliable, cost-effective post-emergent control of tough broadleaf weeds, yellow nutsedge, annual sedges and more. It can also provide weed control in ornamentals. When used as directed, Basagran T&O can be used in cool and warm-season turfgrass and ornamentals, and along roadsides. It can be easily tank-mixed with other herbicides to affordably increase their spectrum of control. **RATE: 0.55-0.75 oz./1000 sq. ft. 5 x 1 gallons/case**

DISMISS
(Sulfentrazone)
EPA REG #279-3295
\$ 60.00 per 6 oz. bottle (CLOSEOUT)
\$ 900.00 per 64 oz. bottle



Dismiss takes charge of yellow nutsedge and green kyllinga. It produces visible results on sedges in as little as 24-48 hours! It is unique in the way it controls sedges, by attacking the weed on the surface and penetrating the soil to control sedge tubers. This helps to prevent future outbreaks, reducing the need for re-treats down the line and minimizing additional labor and chemical costs. It herbicide is surprisingly gentle on your turf. Available in easy-to-use 6 oz. and 64 oz. (1/2 gallon) bottles, Dismiss is well tolerated on 13 common turfgrasses. **RATE: 0.092-0.275 oz./1000 sq. ft. 12 x 6 oz. or 4 x 64 oz./case**

BRUSHMASTER
(2,4-D Esters + Dicamba)
EPA REG #2217-774
\$ 135.00 per gallon
\$ 48.00 per quart



Brushmaster Herbicide provides economical and dependable control of the toughest brush, including multiflora rose, brambles, poison ivy, poison oak, kudzu, and many other listed vines, trees, and broadleaf weeds. A low-volatile ester Trimec herbicide complex formulation, it offers application flexibility and can be applied almost any time of year. It's ideal for use on fencerows, roadsides, firebreaks, around farmstead buildings, and other non-cropland areas. **RATE: 1.33-15 oz./1000 sq. ft. 4 x 1 gallons or 12 x 1 quarts/case**

DISMISS NXT
(Carfentrazone-ethyl + Sulfentrazone)
EPA REG #279-3383
\$ 109.00 per 10 oz. bottle
\$ 595.00 per 60 oz. bottle



With the introduction of Dismiss NXT Herbicide, the best yellow nutsedge and kyllinga product just got better. Dismiss NXT Herbicide is a next generation combination product. It combines two PPO-inhibiting herbicides effectively providing fast visual symptoms within 24 hours and long-term control in both cool and warm-season turf. Dismiss NXT has a greater impact on yellow nutsedge tuber viability than the industry's #1 herbicide choice. **RATE: 5.1-10.2 oz./acre 8 x 10 oz. or 4 x 60 oz./case**

POST-EMERGENT HERBICIDES!

DRIVE XLR8
(Quinclorac)
EPA REG #7969-272

\$ 103.00 per 64 oz. bottle
\$ 595.00 2.5 gallons NEW SIZE!



A great post-emergent herbicide for the control of germinated crabgrass, as well as some broadleaf herbicides. Drive is absorbed by foliage and roots and translocated throughout the plant. It must not be sprayed where mist can carry on to flowers, plants, trees, shrubs, or especially tomatoes, eggplants and bell peppers. This formulation allows for quicker uptake and quicker burndown of target weeds. Keep in mind, Drive works best on very young or very mature crabgrass plants, but struggles on plant that are in between that. **RATE: 64 oz./acre 4 x 64 oz. or 2 x 2.5 gallons/case**

FUSILADE II
(Fluazifop-P-butyl)
EPA REG #100-1084
\$ 170.00 per quart



Fusilade II herbicide is a selective post-emergent turf and ornamental herbicide that controls a long list of both perennial and annual grass weeds in a variety of turf and landscape areas. Fusilade II can be applied over-the-top or as a directed spray without damaging valuable ornamentals. It can also be used at reduced rates to safely remove bermudagrass from tall fescue and zoysiagrass. **RATE: 0.4-0.6 oz./1000 sq. ft. in sufficient water, along with 0.25% of a nonionic surfactant. 8 x 1 quarts/case**

GARLON 3A
(Triclopyr)
EPA REG #62719-37
\$ 135.00 per gallon



Garlon 3A provides superior woody plant and broadleaf weed control while maintaining the integrity of roadsides or rights-of-way. Broad-spectrum brush and broadleaf weed control that translocates to control the entire plant, shoots and roots. It is selective to warm- and cool-season right-of-way grasses, including fescue, brome and native grass species. Garlon 3A is labeled for foliar applications as well as applications to emerged weeds and brush in standing water or on banks and shores of ponds or lakes found on rights-of-way or production forests. Rainfast within two hours. **RATE: 2-5 pints/acre 2 x 2.5 gallons/case**

GARLON 4 ULTRA
(Triclopyr)
EPA REG #62719-527
\$ 171.00 per gallon



Garlon 4 Ultra is the industry standard for basal cut-stump, basal bark and dormant stem treatments, delivering excellent broad-spectrum control of woody plants even after other products call it quits for the season. It is a patented, non-petroleum-based, plant-derived seed oil solvent, reducing environmental impact. It demonstrates increased efficacy on multiple woody species, including mesquite, sweetgum and scotch broom, compared to other formulations of triclopyr ester. It offers broad-spectrum control of brush and broadleaf weeds. **RATE: 1-8 quarts/acre 2 x 2.5 gallons/case**

LAST CALL
(Fenoxaprop + Fluoropyr + Dicamba)
EPA REG #228-719
\$ 206.75 per gallon *CLOSEOUT PRICE**



This proprietary formulation of fenoxaprop, fluoroxypr and dicamba provides strong control of crabgrass, particularly in the mid-tiller stage of growth that quinclorac-based herbicides struggle with. Last Call also controls a number of broadleaf weeds, including dandelion, clover and lespe-deza, and it can also be used for the removal of bermudagrass from cool-season turf. Last Call can be applied to all managed turf areas, including golf fairways and rough, residential and commercial lawns, sport fields and similar areas. **RATE: 1.3-1.5 oz./1000 sq. ft., 3.5-4.0 pints/acre 4 x 1 gallons/case**

MILESTONE
(Triisopropanolammonium salt)
EPA REG #62719-519
\$ 143.00 per quart



Milestone offers excellent invasive weed control, across a wide variety of use sites. It does so with little-to-no damage to grasses, forbs or other key members of the native plant community, allowing you to restore native habitats to their full potential. It can be utilized across nearly all vegetation management sites, including wetlands and certain aquatic settings. It is also elective to most cool- and warm-season perennial grasses. There is a wide application window and no grazing restrictions for any livestock. Milestone is best for broadleaf weed, and invasive and noxious weed control; the choice for thistle and knapweed control. **RATE: 3-7 oz./acre 12 x 1 quarts/case**

OCTANE
(Pyraflufen ethyl: Acetic acid)
EPA REG #228-719
\$ 152.00 per 8 oz. bottle



Octane is a simple, economical solution to faster weed control. Best applied on a sunny day, weeds sprayed with Octane show visual herbicidal symptoms within 24-48 hours. Emerged weeds are quickly killed, helping in timely tournament prep or instant satisfaction by membership and greens committees. Octane is also safe to use on recently seeded turf. **RATE: 1-4 oz./acre for broadleaf, 2.0-6.8 oz for moss control 12 x 8 oz./case**

PATHFINDER II
(Triclopyr)
EPA REG #62719-176
\$ 99.00 per gallon



Pathfinder II is a ready-to-use herbicide for basal bark and cut-stump use. It contains the same active ingredient as Garlon herbicides. It is selective to warm- and cool-season right-of-way grasses, including fescue and brome, and warm- and cool-season native grass species. Pathfinder II controls more than 80 woody plant species and is ideal for low-profile individual plant treatments. No mixing is required and the product is low odor. **RATE: Ready to Use 2 x 2.5 gallons/case.**

POST-EMERGENT HERBICIDES!

PATHWAY
(Picloram + 2,4-D)
EPA REG #62719-31
\$ 76.00 per gallon



Pathway provides broad-spectrum control of hard-to-kill broadleaf weeds. It's the best and most-consistent option for clearing buckbrush. It also increases desirable grass production. Pathway provides the best pigweed residual and blackberry control. It delivers superior control of Pensacola bahiagrass in established bermudagrass pastures. It improves animal health and performance when used to suppress Kentucky 31 tall fescue seedheads. **RATE: Use as a RTU for cut stump treatment, 2 gallons/acre for weed control 2 x 2.5 gallons/case.**

PLATEAU
(Ammonium Salt of Imazapic)
EPA REG #241-365
\$ 240.00 per gallon



Plateau provides long-term suppression of common roadside grasses like tall fescue, Bahiagrass and smooth brome grass, as well as invasive and noxious species like cheatgrass and leafy spurge. Plateau also helps release and establish native grasses and wildflowers. It's effective against problem species such as bindweed, cheatgrass, houndstongue, Johnsongrass, leafy spurge, medusahead, sandbur, tall fescue, toadflax and vaseygrass, Fall applications of Plateau helps effectively control cheatgrass, a primary source of major fires in the West each year. **RATE: 2-12 oz./acre 2 x 1 gallon/case**

PROGRASS EC
(Ethofumesate)
EPA REG #432-941
\$ 280.00 per gallon



For the control of annual grasses (including *Poa annua* and chickweed) on newly-established or newly-seeded areas of perennial ryegrass. Also has some pre-emergence activity. Will control annual bluegrass (*Poa annua*) on creeping bentgrass at fairway height. Approved for golf course fairways, sod farms, cemeteries, commercial and residential lawns. **RATE: 0.66-1.33 gallons/acre in 20-50 gallon of water. 2-4 oz./1000 sq. ft. Timing is critical. 2 x 2.5 gallons/case. NON-UPS PRODUCT**

PYLEX
(Topramezone)
EPA REG #7969-327
\$ 312.00 per 4 oz. bottle



Pylex herbicide is the standard for the control of Bermudagrass and goosegrass in cool-season turf. It has also shown excellent control of nimblewill, crabgrass, clover, speedwell, and others. Pylex herbicide has shown it is safe to most cool-season grasses such as Kentucky bluegrass, tall fescue, fine fescue, and perennial ryegrass. It has shown varied tolerance on bentgrass (moderate to severe injury) and annual bluegrass (minimal to moderate injury) at labeled use rates. **RATE: 0.023-0.034 oz./1000 sq. ft. 4 x 4 oz./case**

Q4 PLUS HERBICIDE
(Quinclorac + Sulfentrazone + 2, 4-D + Dicamba)
EPA REG #2217-930
\$ 165.00 per gallon in 1 gallon
\$ 160.00 per gallon in 2.5 gallons
\$ 167.00 per 30 gallon drum
\$ 54.00 per quart



Q4 Plus turf herbicide offers a single product option to control grassy weeds like crabgrass and yellow nutsedge, as well as tough broadleaf weeds like clover and chickweed. Highly selective on cool-season turfgrasses, Q4 Plus is ideal for bluegrasses, ryegrasses, and fescues. Q4 Plus offers rapid visual response and has a one-week reseeding interval for most listed turf. **RATE: 2.6-3.0 oz./1000 sq. ft. 4 x 1 gallon, 2 x 2 1/2 gallon, 12 x 1 quarts per case, 30 gallon drum**



QUINTESSENTIAL
(Quinclorac)
EPA REG #7969-398
\$ 85.00 per half gallon



Quintessential® with H-Value™ Technology alters the formulation of quinclorac in a way that improves absorption of the product into the plant. That means faster activity and higher rate load in the targeted weed, as well as improved performance in drought stress or rainfast situations. And unlike any other herbicide on the market, Quintessential demonstrates improved control of crabgrass at all growth stages, including the problematic 3-5 tiller stage. Quintessential will be the essential tool for combatting crabgrass and other troublesome turf weeds. **RATE: 0.6-0.9 oz./1000 sq. ft. 4 x .5 gallons per case**

SEGMENT II
(Sethoxydim)
EPA REG #7969-398
\$ 460.00 per gallon



A new reformulation of Segment grassy weed herbicide, Segment II herbicide eliminates unsightly grassy weeds in naturalized areas and landscapes. Applied post-emergence, Segment II herbicide selectively controls grassy weeds in centipedegrass and established fine and tall fescues. Segment can be used on any non-grass plant species without issue. Great herbicide product for no-mow fescue areas. **RATE: 0.6-0.9 oz./1000 sq. ft. 2 x 2.5 gallons/case**

SOLITAIRE
(Sulfentrazone + Quinclorac)
EPA REG #279-3355
\$ 295.00 per lb. in 1 lb. containers
\$ 579.00 per 4 lb. container
\$ 98.00 per gallon in 2.5 gallons NEW SIZE!



Solitaire herbicide is the only all-in-one post-emergence weed control solution specifically designed to combat any combination of crabgrass, sedges and broadleaf weed problems you might encounter in a single application. It combats post-emergence weeds from the foliage down and the root up. Labeled for the control or suppression of over 60 weeds, it provides fast, visible results with symptoms appearing just a few days after treatment. **RATE: 0.367-0.735 oz./1000 sq. ft. 6 x 1 lb., 2 x 2.5 gallons or 4 lb. containers**

POST-EMERGENT HERBICIDES!

SOLITARE WSL
(Sulfentrazone +Quinclorac)
EPA REG #279-3470
\$ 185.00 per bottle

A new liquid formulation of Solitare, Solitare WSL Herbicide is a concentrated liquid formula containing 0.57 lbs of active ingredient per gallon of product. The liquid formula is absorbed by shoots, foliage and roots.
RATE: 4-6.5 oz./1000 sq. ft. 4 x 0.75 gallon/case



TELAR XP
(Chlorsulfuron)
EPA REG #432-1561
\$ 350.00 per 16 oz. bottle

Telar XP herbicide is a dry flowable that is mixed in water and applied as a spray. It is for the control of many invasive and noxious broadleaf weeds in pasture, range, Conservation Reserve Program (CRP) lands, and non-crop industrial sites, including grazed areas on these sites. It can be applied as a pre-emergence or post-emergence treatment. For best annual weed control, apply Telar XP herbicide during early stages of weed growth. DO NOT make applications to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams and canals.
RATE: 0.25-1.0 oz./acre 8 x 16 oz./case



NEW PRODUCT!

SUBLIME
(Triclopyr + Dicamba + Mesotrione)
EPA REG #89442-55
\$ 145.00 per gallon
\$ 60.00 per quart

Sublime is the only product on the market powered by the combination of triclopyr, dicamba and mesotrione. This innovative non-phenoxy formulation reliably delivers a much wider spectrum of selective, post-emergent and residual control, particularly on many of the most challenging broadleaf and grassy weeds in turfgrass. In addition to an unprecedented level of performance, the unique blend of active ingredients in Sublime suppresses the common and unsightly bleaching symptoms that can be caused by mesotrione alone. **RATE: 0.25-1.0 oz./acre 4 x 1 gallons or 12 x 1 quarts/case**



VEXIS
(Pyrimisulfan)
EPA REG #2217-1024
\$ 28.00 per 2 lb. can
\$ 40.00 per 15 lb. bag

Vexis granular uses the proprietary active ingredient pyrimisulfan to deliver exceptional control of sedge and kyllinga species, plus listed broadleaf weeds. The granular formulation reduces the potential for drift or off-target application and can be applied to wet or dry turf. It is labeled for use on listed cool-season and established warm-season turfgrasses. It should be watered in within 48 hours for best control. Weeds controlled: yellow nutsedge, purple nutsedge, annual sedges (including ALS-resistant sedges), path rush, buckhorn plantain, common chickweed, dollarweed (pennywort), false dandelion, ground ivy, hairy bittercress, henbit and virginia buttonweed.
RATE: 4 lbs./1000 sq. ft. 2 lb. shaker can or 15 lb. bag



XONERATE 2SC
(Amicarbazone)
EPA REG #279-3621
\$ 533.00 per 12 oz. bottle

Xonerate 2SC Herbicide is a selective post-emergence herbicide for *Poa annua* control in cool season turfgrasses. It provides removal of annual bluegrass (*Poa annua*) through multiple applications with re-seeding flexibility per label directions. Xonerate 2SC Herbicide is labeled for use on golf courses, seed and sod production fields, residential and commercial lawns, parks, and sports fields. **RATE: 3 oz./acre at 14 day intervals. Up to 4 applications. 8 x 12 oz. bottle/case**



NON-SELECTIVE HERBICIDES!

CHEETAH PRO
(Glufosinate ammonium)
EPA REG #228-743
\$ 105.00 per 64 oz. bottle
\$ 177.00 per gallon in 2.5 gallons

Cheetah Pro non-selective, post-emergence herbicide provides fast, effective control of the toughest broadleaf and grass weed challenges, including those resistant to glyphosate and multiple herbicide classes. Its novel mode of action works quickly to control undesirable plant vegetation around ornamental trees, shrubs, and potted plants, as well as landscape trim and natural areas. It also has minimal soil residual, which makes it an effective pre-plant treatment for turf, ornamentals, and greenhouses. **RATE: 0.5-2.0 oz./1000 sq. ft. 2 x 2.5 gallons or 4 x 64 oz. bottles/case**



FINALE XL
(Glufosinate-ammonium)
EPA REG #7969-464
\$ 112.00 per gallon

Finale XL T&O herbicide is a non-selective, contact herbicide with enhanced active ingredient loading that can be used anywhere you desire total weed control. It has pinpoint accuracy and delivers fast control of the toughest weeds at lower use rates than prior formulations. It's the perfect tool for spot treatments and precision edging along cart paths, fences and landscape beds. **RATE: 3.2 oz./gallon of water. 2 x 2 1/2 gallons per case**



NON-SELECTIVE HERBICIDES!

RANGER PRO (Glyphosate 41%) EPA REG #524-517

\$ 60.00 per gallon in 2.5 gallons
\$ 82.00 per gallon in 30 gallon drum



This product is a post-emergence, systemic herbicide with no residual soil activity. It gives broad-spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid containing surfactant and no additional surfactant is needed or recommended. It moves through the plant from the point of foliage contact to and into the root system. **RATE: 0.66-13 oz./1000 sq. ft., 3 oz./gallon for spot apps** 2 x 2.5 gallons/case or 30 gallon drums

ROUNDUP CUSTOM (Glyphosate 53%) EPA REG #524-343

\$ 102.00 per gallon



Roundup Custom herbicide gives applicators maximum use flexibility for both aquatic and terrestrial jobs. Maximum application flexibility for weed and brush control on land and around water. Non-selective and highly effective on more than 190 species of emerged weeds, brush and vines. **RATE: 0.66-10 oz./1000 sq. ft. (1 oz./gallon for cattails), Use Delux or Influence for a surfactant.** 2 x 2.5 gallons/case

ROUNDUP PRO CONCENTRATE (Glyphosate 50.2%) EPA REG #524-529

\$ 103.00 per gallon



Roundup PRO Concentrate delivers unsurpassed weed and brush control that's rainfast in as little as one hour. It has a more concentrated formulation and proven surfactant technology. It's active ingredient has favorable environmental characteristics. It is non-toxic to birds, fish and mammals when used according to label directions. It binds tightly to soil, making it unlikely to move to groundwater. It also has no residual soil activity, so it won't be taken up by the roots of non-target plants. **RATE: 0.66-13 oz./1000 sq. ft., 3 oz./gallon for spot applications** 2 x 2 1/2 gallons per case

ROUNDUP PRO MAX (48.7% Glyphosate) EPA REG #524-579

\$ 140.00 per gallon
\$ 1970.00 per 30 gallon drum



A fast-acting formulation of Roundup Pro. This new potassium salt formulation has a lower use rate for more effective control over the old Roundup Pro. Roundup Pro Max is a non-selective herbicide for the control of annual and perennial weeds and grasses. It does translocate through the plant. You can reseed seven days after application. Roundup Pro Max can be used with Pennant or Surflan for 4-month control. **RATE: 2 oz./1000 sq. ft. 2 x 2.5 gallons/case or 30 gallon drum**

ROUNDUP QUIKPRO (Glyphosate + Diquat) EPA REG #524-535

\$ 225.00 per 6.8 lb. jug
\$ 190.00 per case 30 x 1.5 oz. packets



QuikPRO herbicide, powered by Roundup technology is the latest, and most anticipated, turf and ornamental herbicide development from Monsanto. QuikPRO shows symptoms in as little as 24 hours. QuikPRO is formulated as a water-soluble granular and packaged in easy measure bottles. **RATE: 1.5 oz./gallon of water/1000 sq. ft. 6.8 lb. jugs or 30 x 1.5 oz./case**



ROUNDUP QUIKPRO SC TOTAL (Indaziflam +Diquat + Glyphosate)

EPA REG #432-1532
\$ 100.00 per gallon in 2.5 gallons
\$ 123.00 per 114 oz bottle



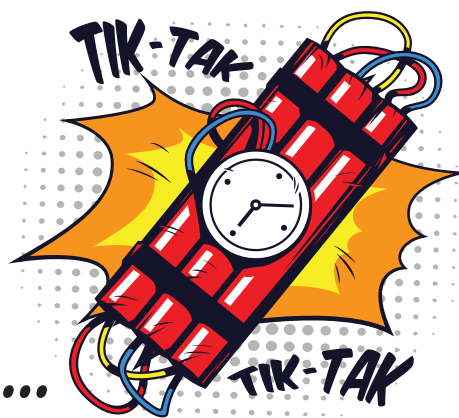
Roundup QuikPro SC Total is a broad-spectrum, non-selective herbicide that provides residual control of grassy and broadleaf weeds for up to six months. It targets broadleaf weeds like chickweed, corn speedwell, henbit, kochia, crabgrass, and barnyard grass. This product is safe for use near landscape shrubs and trees. It yields results within hours. It is already pre-mixed for backpack sprayer applications. **RATE: 16 oz/gallon of water/1000 sq ft. 2 x 2.5 gallons or 4 x 144 oz/case**

TORDON RTU (Picloram) EPA REG #62719-31

\$ 35.00 per quart



Tordon RTU specialty herbicide effectively kills cut stumps when you are cleaning out fence lines and non-cropland areas. RTU stands for Ready-To-Use, and that's just what it is. No mixing or measuring is required, and you can use it nearly year-round. Just pour it into the convenient squirt bottle applicator, and go to work. It keeps more than 20 woody species at bay. Product must be applied to a fresh cut stump to maximize product uptake. Refer to the label for details. **RATE: Spray or paint freshly cut stumps and stubs undiluted. 12 x 1 quarts/case**



THESE PRODUCTS ARE.....

STERILANTS!

BASAMID G
(Dazomet)
EPA REG #5481-9027
\$ 540.00 bag



BASAMID G, the only granular soil fumigant on the market that completely sterilizes soil and eliminates weeds, grasses, nematodes and disease for a healthy and vigorous start for new turf. No equipment or tarps are necessary, which allows users the flexibility to renovate only the areas desired. BASAMID G sterilizes soil quickly, and allows reseeding in as few as ten days. This easy-to-use granular soil fumigant is labeled for lawn and turf renovation, golf course construction and renovation, lawn and turf seedbeds, ornamental production fields, landscape beds, potting soil, non-berring berry, vine, fruit and nut crops, soil media and soil heaps. **RATE: 6-10 lbs./1000 sq. ft. 50 lb. bags**

DIURON 80DF
(Diuron)
EPA REG #81927-12
\$ 12.00 per lb.



Diuron 80 DF is a non-selective residual herbicide for the control of a wide range of grasses, broadleaf weeds in land not intended to bear vegetation, including industrial sites, railways, and other non-crop situations. Diuron 80DF may be applied to soil prior to emergence of weeds to control susceptible weed seedlings for an extended period of time. The degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall, and other conditions. **RATE: 0.75-4 lbs./acre 10 x 5 lbs./case**

HYVAR X-L
(Bromacil)
EPA REG #432-1548
\$ 164.00 per gallon



Hyvar X-L herbicide is a water-soluble soil sterilant liquid to be mixed in water and applied as a spray for weed control in non-crop and industrial sites. It may also be applied either undiluted or diluted with water for the control of various species of brush on industrial sites. Hyvar X-L is an effective general herbicide providing residual control of many annual weeds at low rates and perennial weeds and brush at higher rates. It is particularly useful for control of perennial grasses. **RATE: 1.33-3 gallons/acre on annual grasses, 3-6 gallons/acre on perennial weeds and grasses 4 x 1 gallons/case**

KROVAR I DF
(Bromacil + Diuron)
EPA REG #432-1551
\$ 20.00 lb.



Krovar I DF herbicide is a dispersible granule soil sterilant herbicide to be mixed in water and applied as a spray for selective control of weeds in citrus and for non-crop weed control. Krovar I DF controls many annual weeds and, at the highest rates allowed by this label, it controls certain perennial weeds. Best results are obtained if treatment is made to moist soil, and moisture is supplied by rainfall or sprinkler irrigation within two weeks after application. Combo tank mixes of Krovar and Oust are highly effective. **RATE: 6-16 lbs./acre 8 x 6 lb./case**

MOJAVE 70 EG
(Imazapyr + Diuron)
EPA REG #81927-25
\$ 21.00 per lb.



A dispersible granule intended to be mixed with water and surfactant(s) for application to non-crop areas such as railroad, utility, pipeline and highway rights-of-way and more. Can be used for weed control under paved surfaces. Labeled for use on most vegetation and small brush. For gravel or dense vegetation, minimum of 1 gallon of water per thousand is recommended with 2 gallons preferred. Glyphosate as a tank mix partner is highly recommended. **RATE: 7-19 lbs./acre with 10-15 lbs. preferred for maximum control. 10 x 5 lbs./case**

OUST XP
(Sulfometuron methyl)
EPA REG #432-1552
\$ 280.00 per 3 lbs.



Oust XP Herbicide is a dispersible granule soil sterilant that may be used for general weed control on terrestrial non-crop sites, and for selective weed control in certain types of unimproved turfgrasses on these same sites. When applied as a spray, Oust XP controls weeds by both pre-emergence and post-emergence activity. Refer to the label for a complete list of grasses and weeds controlled. Great tank mix partner with Krovar I, 2,4-D, or glyphosate for added control. **RATE: 1.33-6.0 oz./acre 3 lb. containers**

PRAMITOL 25E
(Prometon)
EPA REG #66222-22
\$ 104.00 per gallon



Pramitol 25E is a non-selective herbicide that can be applied in water or oil before or after plant growth begins. Although Pramitol 25E has considerable activity through foliar contact, much of its activity is through roots; therefore, its effectiveness is dependent on rainfall to move it into the root zone. Very dry soil conditions and lack of sufficient rainfall may result in poor weed control. When applied to the soil, this product usually inhibits plant growth for a year or more. **RATE: 4.0-6.125 gallons in 50-100 gallons of water/acre. 4 x 1 gallons/case**





**GROWTH
REGULATORS**



Grow a better tomorrow

THE ANSWER TO YOUR #1 PRIORITY



MAINTAIN PRISTINE
SURFACE CONDITIONS



FIND SAVINGS ON
TIME & LABOR



APPLY WITH EASIER
CONVENIENCE

Anuew EZ
PLANT GROWTH REGULATOR

Whether your sights are on playability, density or color – or the pressure is on to reduce time and labor – Anuew EZ is ready to respond. It's the PGR you rely on to achieve your #1 course priority in a new, easy liquid formulation.

Available for purchase during the Nufarm Edge Rewards Program. Visit nufarm.com/usturf/anuewez to learn more.

NEXT-GENERATION PGR
Now in a liquid formulation

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Anuew™ EZ is a trademark of Nufarm.

Sam Winienger
Territory Sales Manager - Midwest
816-718-1070

ANUEW
(Prohexadione calcium)
EPA REG #1001-91
\$ 107.00 per lb.



Anuew is a proprietary tool for cool- and warm-season turf management. Anuew contains prohexadione calcium, a new active ingredient with a novel mode of action that can be applied to all managed turf areas, including golf greens, tees, fairways and rough, residential and commercial lawns, sod farms, sport fields and similar areas. Anuew is unique to other PGRs in that you do not see a "growth flush" towards the end of the control as the product wears off. Iron or Nitrogen is not needed to mask PGR like systems with Anuew. **RATE: 8-16 oz./acre on fairways, roughs and general turf, 2-8 oz. on greens and tees 4 x 4 x 1.5 lb./case**



ANUEW EZ
(Prohexadione calcium)
EPA REG #1001-91
\$ 177.00 per 64 oz. bottle
\$ 300.00 per gallon in 2.5 gallons



Anuew EZ is the new liquid formulation of the popular Anuew plant growth regulator. It shifts carbohydrates to the plant roots to visibly improve turfgrass quality, density and appearance. When converting from Anuew to Anuew EA rates, multiply your WDG rate by 2.2x to deliver equivalent AI with Anuew EZ. **RATE: 0.2-0.8 oz./1000 sq. ft. 4 x 64 oz or 2 x 2.5 gallons/case**

CUTLESS MEC
(Flurprimidol)
EPA REG #67690-51
\$ 517.00 per gallon



Cutless MEC is a PGR that provides shoot growth suppression of warm and cool season turfgrasses, resulting in decreased mowing frequency and turfgrass clippings. It increases turfgrass density, wear resistance and improves color. Cutless suppresses growth of *Poa annua*, reducing populations and shifting competitive growth advantage towards perennial turfgrasses. Cutless MEC improves water-use efficiency resulting in pre-drought stress conditioning. **RATE: Fairway height bentgrass 24.6-49.2 oz./acre, Bentgrass putting greens 12.3-24.6 oz./acre, Kentucky bluegrass and perennial ryegrass 36.9-49.2 oz./acre 2 x 2.5 gallons/case**

CUTLESS 50W SUPER PAK
(Flurprimidol)
EPA REG #67690-15
\$ 5,040.00 per 30 lb drum



The same great formulation of Cutless MEC in water-soluble pack form. **RATE: Fairway height bentgrass 0.50-1.0 lb./acre, Bentgrass putting greens 0.125-0.5 lb./acre. Kentucky bluegrass and perennial ryegrass 0.75-1.0 lb./acre 30 lb drums**

ETHEPHON 2SL
(Ethephon)
EPA REG #66222-151
\$ 58.00 per gallon *CLOSEOUT PRICE**



Ethephon 2SL is a systemic, foliarly-absorbed Type 2 PGR that promotes lateral growth in turf while limiting top growth and suppressing seedheads of *Poa annua* and white clover. It retards growth of turfgrasses. Use it for the elimination of undesirable fruit on apple, crabapple, carob and olive trees. **RATE: 0.5-8.0 pints/acre. 2 x 2.5 gallons/case**

LEGACY
(Flurprimidol + Trinexapac-ethyl)
EPA REG #67690-46
\$ 514.00 per gallon in 2.5 gallons
\$ 410.00 per gallon in 1 gallon *CLOSEOUT SIZE**



Legacy integrates patented synergistic turf growth regulator technology to reduce stem elongation and leaf blade length in perennial cool- and warm-season turfgrasses on golf courses, resulting in a more compact and dense growth habit. Legacy's synergistic growth regulation, resulting from its dual sites of action and plant uptake, leads to enhanced growth suppression, improved turfgrass color and quality, extended TGR spray intervals, discouragement of *Poa annua*, and more uniform growth regulation in mixed turfgrass stands. **RATE: 8-22 oz./acre. 2 x 2 1/2 gallons per case or 4 x 1 gallons per case**

MUSKETEER
(Flurprimidol + Paclobutrazol + Trinexapac-ethyl)
EPA REG #67690-57
\$ 384.40 per gallon



Musketeer is the first turf PGR to incorporate Triple Turf PGR Technology to uniquely and effectively suppress gibberellic acid synthesis, leading to superior growth regulation of targeted turfgrasses. Specifically formulated to aggressively target growth suppression of *Poa annua* in cool-season turfgrass species, such as creeping bentgrass, while providing excellent turfgrass enhancement. The result—more bentgrass and less *Poa annua*. **RATE: 12-30 oz./acre. 2 x 2.5 gallons/case**

PAC-LOW
(Paclobutrazol)
EPA REG #62097-24-53883
\$ 285.00 per gallon



This systemic plant growth regulator slows vegetative growth by inhibiting gibberellin biosynthesis in turfgrass and trees. It slows the vertical growth of turf within 3-10 days, thereby reducing mowing frequency for a 6-8 week period. After application, the turf gradually becomes greener and denser for up to 12 weeks. **RATE: 6.4-16 oz./acre on greens, 16-32 oz. on all other turf. 4 x 1 gallons/case**

GROWTH REGULATORS!

PRIMO MAXX
(Trinexapac Ethyl)
EPA REG #100-752

\$ 317.00 per gallon
\$ 2,990.00 per 10 gallon linkpak



A systemic growth regulator that provides reduction for approximately four weeks on both warm- and cool-season turfgrasses, without injuring nearby ornamentals. Unlike other PGR's, Primo Maxx targets the part of the plant which inhibits vertical growth while enabling rich color, lateral stems and root mass development. **RATE: 0.25-1.0 oz./1000 sq. ft. 2 x 1 gallons/case**

PRIMO MAXX/TRIMMIT MULTIPAK
(Trinexapac Ethyl)
EPA REG #100-752

\$ 741.00 per Multipak



Primo Maxx and Trimmit 2SC plant growth regulators can be used together for long-term growth regulation by increasing turf density, improving stress tolerance and optimizing playability on greens. *Multipak contains 1 gallon of Primox Maxx and 1 gallon of Trimmit*

PROXY
(Ethephon)
EPA REG #432-1230
\$ 70.00 per gallon



Proxy helps control growth of desirable cool-season grasses and suppresses seedheads of *Poa annua* and white clover. This product does not cause initial turf shock, phytotoxicity or post-application growth surge. It helps reduce labor and creates turf that is denser, tighter-knit and more playable. It's a liquid PGR that is foliar-absorbed. This Type II PGR works by affecting cell length, which in return promotes lateral growth. **RATE: 5 oz./1000 sq. ft. 2 x 2.5 gallons/case**

T-NEX 1 AQ
(Trinexapac-ethyl)
EPA REG #66222-212

\$ 225.00 per gallon for 1 gallons
\$ 225.00 per gallon for 2.5 gallons



A micro-emulsion concentrate used to manage growth and improve quality and stress tolerance of warm- and cool-season turfgrasses. Improves rich color, lateral stems and root mass development and inhibits vertical shoot growth. It helps produce healthy, durable blades in turfgrass. Effective on fescue, bentgrass, bermudagrass, annual bluegrass, *Poa annua*, bluegrass, ryegrass, buffalograss, St. Augustinegrass, among others. **RATE: 0.125-1.0 oz./1000 sq. ft. 2 x 1 gallons or 2 x 2.5 gallons/case**

TRIMMIT 2SC
(Paclobutrazol)
EPA REG #100-1014

\$ 555.00 per gallon in 4 x 1 gallon
\$ 508.00 per gallon in 2 x 2 1/2 gallons



Trimmit 2SC is a plant growth regulator for turfgrass that slows grass growth for up to 2 months after application. The frequency of mowing can be reduced by up to 50% during the period of effective retardation. Trimmit 2SC is highly effective on *Poa annua* and can be used in aiding in *Poa annua* reduction by slowing the growth enough to allow desirable turfgrasses to takeover. **RATE: 6.4-16 oz./acre on greens, 16-32 oz. on all other turf. 4 x 1 gallons or 2 x 2.5 gallons/case**

ANTI-TRANSPIRANTS!

AQUALOCK
(Polymeric Surfactants)
\$ 50.00 per gallon



AquaLock is a unique wax dispersion that forms a thin, flexible, water-repellent layer on plant surfaces. AquaLock protects plants against drought, extreme temperatures, wind and sunscald. AquaLock may extend watering intervals for turf and ornamental crops. It will not clog nozzles and washes easily off spray equipment. It's free of volatile organic compounds and stable at temperatures above freezing. **RATE: 2-8 oz. in 1-2 gallons/1000 sq. ft. for turfgrass, 4-8 oz. in 1 gallon of water for ornamentals 2 x 2.5 gallons/case**

LEAFSHIELD
(Paraffin + oxidized polyethylene)
\$ 80.00 per gallon



LeafShield provides safe and effective protection against desiccation injury. It forms a protective barrier that seals leaf stomata to reduce moisture loss. LeafShield dries to a thin, waxy layer that protects foliage without discoloration. It is safe to use on all plant types, including blue spruce and other sensitive varieties. LeafShield's odorless, non-sticky formulation mixes easily with water and washes effortlessly out of spray equipment with soap and water. It can be applied in sunny or cloudy conditions, further increasing ease of use. **RATE: 4-8 oz./gallon 2 x 2.5 gallons/case**



**WETTING
AGENTS**

INNOVATION GIVES YOU FLEXIBILITY



CUSTOMIZABLE RATES
that fit into any spray
program



**OPTIMIZED
IRRIGATION EFFICIENCY**
to maximize water inputs



ENHANCED DELIVERY
of nutrients and control
products into the
root zone



**TRUSTED CASCADE™
PERFORMANCE**



**IMPROVED BIOTIC
STRESS RESISTANCE**
with uniform and balanced
root zone hydration

MAKE EVERY DROP COUNT

Introducing **Cascade Tre™** to our family of innovative soil surfactants. Delivering the same trusted performance you've relied on from the Cascade™ brand, Cascade Tre offers improved safety features allowing customization of your irrigation schedule. Increased formulation flexibility provides customizable rates and enhanced turf safety after delayed watering, maximizing your time and course playability.



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PRECISION™
LABORATORIES

Results. Expect it.™

ALYPSO PLUS
Infiltration Surfactant
\$ 74.00 per gallon

Alypsso Plus is a new infiltration surfactant from Precision Labs that will be replacing Duplex and Duplex Ultra. Alypsso Plus speeds up the infiltration of water into thatch and throughout the root zone and conditions water in the spray and the soil. Alypsso Plus is a unique combination of a naturally-derived infiltration surfactant and concentrated organic acid. **RATE: 0.75-1.0 oz./1000 sq. ft. For injection 1 quart/acre 2 x 2.5 gallons/case**



DISPATCH SPRAYABLE
Block Co-Polymer with Alkyl Polyglucoside
\$ 139.00 per gallon

An economical soil surfactant that is designed to conserve water. Dispatch Sprayable is more concentrated than the dispatch injectable, so the application rates are lower with less jugs to handle. Dispatch Sprayable is a great product to use when spraying insecticides or pre-emergents that need to move through the turf to the soil. **RATE: 8 oz./acre weekly or 16 oz. every two weeks 2 x 2.5 gallons/case**



AQUEDUCT
Straight and Reverse Block Co-Polymer
\$ 120.00 per gallon

Aqueduct is a rapid recovery soil surfactant that is specifically designed to quickly alleviate localized dry spot. It can also be used as a pre-treatment tool to correct problem areas on turf before starting a regular preventative soil surfactant program. Aqueduct moves water deeply into problem areas, reducing water repellency and restoring the rootzone's ability to regain optimum moisture levels. In doing so, Aqueduct quickly reduces turf wilt and promotes recovery of stressed turf faster than other products on the market. Once you have serious localized dry spots, Aqueduct is what you have to use. Aqueduct reduces hydrophobicity in the soil profile. **RATE: Apply 8 oz./1000 sq. ft. 5 gallon pails**



DUPLEX
Block Co-Polymer
\$ 42.00 per gallon

Designed for irrigation injection, Duplex combines penetrants with a buffering agent that neutralizes hard water ions. Duplex improves the infiltration of rainfall or irrigation through thatch, moving water, plant protectants or nutrients into the soil solution. It is compatible with plant protectants and other surfactants. Great product to mix with Cascade or Tricure. **RATE: As an injection, apply 20 oz. into water volume sufficient to treat one acre. As a spray, apply 20 oz. in a minimum of 60 gallons of water to treat one acre. 2 x 2.5 gallons/case**



AQUEDUCT FLEX
Straight and Reverse Block Co-Polymer
\$ 199.00 per bag

Aqueduct Flex provides rapid recovery of stressed turf, with visible results in as little as 3 days when applied at the treatment rate. Aqueduct Flex also provides up to 30-day protection against the development of localized dry spot when applied on a monthly basis. Aqueduct Flex is safe to use on all turf varieties and areas, including golf course greens, tees, fairways, athletic fields, and residential lawns. It can also be used on ornamental gardens, landscapes, trees, and shrubs. It does not need to be watered-in when applied, and will not burn when used as directed. Aqueduct Flex is biodegradable and non-toxic to plants. **RATE: 1 lb./1000 sq. ft. for preventative, 2.5 lbs. for curative 44 lb. bag**



FLO THRU A-PLUS
Acid-Based Penetrant
\$ 78.00 per gallon in 2.5 gallons
\$ 1,900 per 30 gallon drum

FloThru™ A-Plus is an acid-based penetrant that dissolves bicarbonates and frees calcium. Available soil calcium will then displace soil sodium. The penetrant "flattens" droplet beading by reducing water tension. This results in even coverage of sprays on leaf blade. The penetrant also provides even water penetration into the soil which reduces localized dry spots. The double action of FloThru™ A-Plus results in even spray coverage on leaf blade, faster and even water penetration into soil, and consistent soil moisture due to uniform water movement. Dissolving bicarbonates provide available soil calcium for an extended period due to the long-lasting acid. **RATE: 0.75-3.0 oz./1000 sq. ft. 2 x 2.5 gallons/case and 30 gallon drums**



CASCADE PLUS
Block Co-Polymer
\$ 117.00 per gallon in 2.5 gallons
\$ 115.00 per gallon in 20 gallon drum

A combination of nonionic surfactants that hydrate the soil and penetrate to provide deeper, more uniform water infiltration, Cascade Plus is used to prevent localized dry spot (LDS), correct hydrophobic soil conditions and provide firmer, faster playing surfaces under all conditions. A single application wetting agent that is designed to work for 4-6 months. Provides firmer, faster playing surfaces under all conditions. It will improve irrigation efficiency, conserving water and saving you money. **RATE: Use monthly at 4 oz. with 1 oz. of Duplex. Make two 8 oz. applications, 7-10 days apart 2 x 2.5 gallons/case or gallon drums**



FORTÉ
(Non-hazardous surfactants)
\$ 290.00 per 64 oz. bottle

No more 30 gallon drums! Forte is extremely concentrated for very low use rates. Each 1/2 gallon jug will treat 4 acres! The primary role of Forté is to accelerate penetration of water into the soil and reestablish hydration uniformly. Once in the rootzone, Forte alleviates soil water repellency, the cause of localized dry spot. The surfactant in Forté is coupled with another component that dramatically increases the activity of the surfactant to provide enhanced turf performance. Forté will not diminish turf quality that other products are known to cause initially after application. **RATE: 16 oz./acre 6 x 64 oz./case**



WETTING AGENTS!

HYDRATION A-PLUS

Acid-Based Plant & Soil Hydrating Agent

\$ 121.00 per gallon in 2.5 gallons

\$ 3,425.00 per 30 gallon drum



Plant & Soil Hydrating Agent &

Bicarbonate Reducer. Hydration A-Plus provides uniform water movement and consistent plant & soil moisture, while reducing sodium and bicarbonates! This Plant & Soil Hydrating Agent dissolves bicarbonates and frees calcium. Available soil calcium will then displace soil sodium. The triple action of Hydration A-Plus results in faster water penetration into soil, consistent soil moisture due to uniform water movement, prevents LDS due to its ability to hold moisture in soils that are water repellent and dissolves bicarbonates due to the long-lasting acid. **RATE: 0.75-4.0 oz./1000 sq. ft. (2-4 oz. for sodium flush) 2 x 2.5 gallons/case or 30 gallon drums**

IN-FLOW

Proprietary Blend of Surfactants

\$ 98.00 per bag



In-Flow is a granular soil conditioner and surfactant that influences water's ability to flow into and throughout the profile of infield skins. This helps sports turf managers find the desired balance between water retention and movement, resulting in a better performing infield over a longer period of time. With In-Flow you will use less water to get optimal playing conditions, maintain moisture levels for longer and improve profile structure. It is environmentally safe, economical, and easy to use.

RATE: 5 lbs./1000 sq. ft. monthly or as needed. 50 lb. bag

MAGNAPLEX

Polyethylene – Polypropylene Glycol Block Co-Polymer

\$ 73.00 per gallon



Apply Magnaplex as a rescue treatment or as a proactive approach to water management. The infiltration surfactant in Magnaplex improves water penetration through aggressive turf and thatch, while the hydration component uniformly moves water within the root zone. Better hydration and infiltration results in improved color, quality and volumetric water content. A blend of Magnus and Duplex at a 4 to 1 ratio, Magnaplex combines the hydration of Magnus and the infiltration of Duplex in a convenient, easy-to-use formulation that does not require immediate post-application irrigation. **RATE: 5 oz./1000 sq. ft. 2 x 2.5 gallons/case**

REVOLUTION

Modified Methyl Capped Block Co-Polymer

\$ 170.00 per gallon



Revolution is a surfactant chemistry specifically designed for optimization of rootzone moisture and maintenance of fine turf performance. The first application should begin at least 1 month before normal stress conditions set in. In Iowa, applications should be made from mid-April to the first week of May. Product should be sprayed on and allowed to dry, then watered in at night with 1/3" of irrigation of 4" deep. This allows the product to move down instead of binding in the thatch. A great product for golf greens. **RATE: 6 oz./1000 sq. ft. monthly 2 x 2.5 gallons/case or 30 gallon drums or 270 gallon tote**

TERAFIRM

(Propanediol + Poly2-methyloxirane + Docusate sodium)

\$ 87.00 per gallon



Terafirm is a non-phytotoxic soil penetrant developed to promote accelerated water movement away from the soil surface. This is accomplished by reducing the water's surface tension and facilitating downward water movement. It will not contribute to excess water-holding. Regular use of Terafirm offers the professional an effective tool to help maintain drier soil surface conditions. Try mixing 3 oz. of Tricure with 1 oz. of Terafirm for an outstanding monthly product. **RATE: 2-4 oz./1000 sq. ft. monthly 2 x 2.5 gallons/case**

TRICURE AD

Reverse Block Co-Polymer

\$ 127.00 per gallon in 2.5 gallons

\$ 3,200.00 per gallon in 30 gallon drums



An improved formulation of the original Tricure that include dry down capabilities. Tricure AD works by attaching to soil particles, reducing the surface tension of water, and attracting a thin film of water close to the particle surfaces. This allows the optimum moisture to be held for plant use while facilitating ware release and effective drainage. TriCure AD treats all multi-facial, particle surfaces including sand, soil, thatch, peat, and organic amendments. It's formulated to release excess water often trapped in macro and micro pore space by other surfactants. Tricure AD improves root length and mass. There is no question that Tricure AD is the best monthly product on the market today. For greens with heavy thatch, use 3 oz. of Tricure AD with 1 oz. of Terafirm or 2 oz. each for extreme cases. **RATE: 4-6 oz./1000 sq. ft. 2 x 2.5 gallons/case, 30 gallon drums**

TRICURE PELLETS

Reverse Block Co-Polymer

\$ 430.00 per case



A fast, safe and convenient method of applying Tricure surfactant through hose-end applicators. Packaged in easy-to-carry three pellet tubes, Tricure Pellets are designed to dissolve quickly, usually around 10 minutes, allowing fast application with chemical dosage sufficient to effectively spot-treat hydrophobic soils. **RATE: Use 1 pellet per green (1 pellet provides control for 1-2 weeks for every 6000 sq. ft.) 12 x 3 pellets/case**

TRICURE PELLET APPLICATOR

\$ 220.00 each

\$ 35.00 each - replacement applicator cup



Our new applicator has a better, more durable valve and nozzle, and a new design for water rotation within the chamber to help pellets dissolve evenly. It features a patented nozzle for large droplets and an outstanding fan pattern. It evenly dissolves and applies the TriCure Pellet cartridge. The nozzle and precision flow control valve can be removed and used independently. It has a straining screen insert for protection against spitting.

TRIPL0

\$ 744.00 per gallon in 2.5 gallons
\$1,200.00 per 20 gallon drum

Triplo is a combination of surfactants designed to increase the movement of irrigation and rainwater into and throughout the rootzone of natural playing surfaces. Triplo is a combination of 40% hydration and 60% penetrant. Triplo is convenient and easy to use. It does not require irrigation immediately after application. Its labeled for use on both golf courses and athletic fields. **RATE: 2.5-5 oz./1000 sq. ft. 2 x 2.5 gallons/case**



VIVAX TABS
Block Co-Polymer
\$ 390.00 per case

Vivax Tabs contain the same surfactants as Vivax within an easy-to-use tablet. Vivax Tabs are designed to improve water infiltration into and throughout localized dry spots (LDS) and provide relief from plant stress across a wide range of soils and turf types. **RATE: One tablet covers 12,000-18,000 sq. ft. of turf 24 x 6 tablets per case**



VIVAX
Block Co-Polymer
\$ 91.00 per gallon

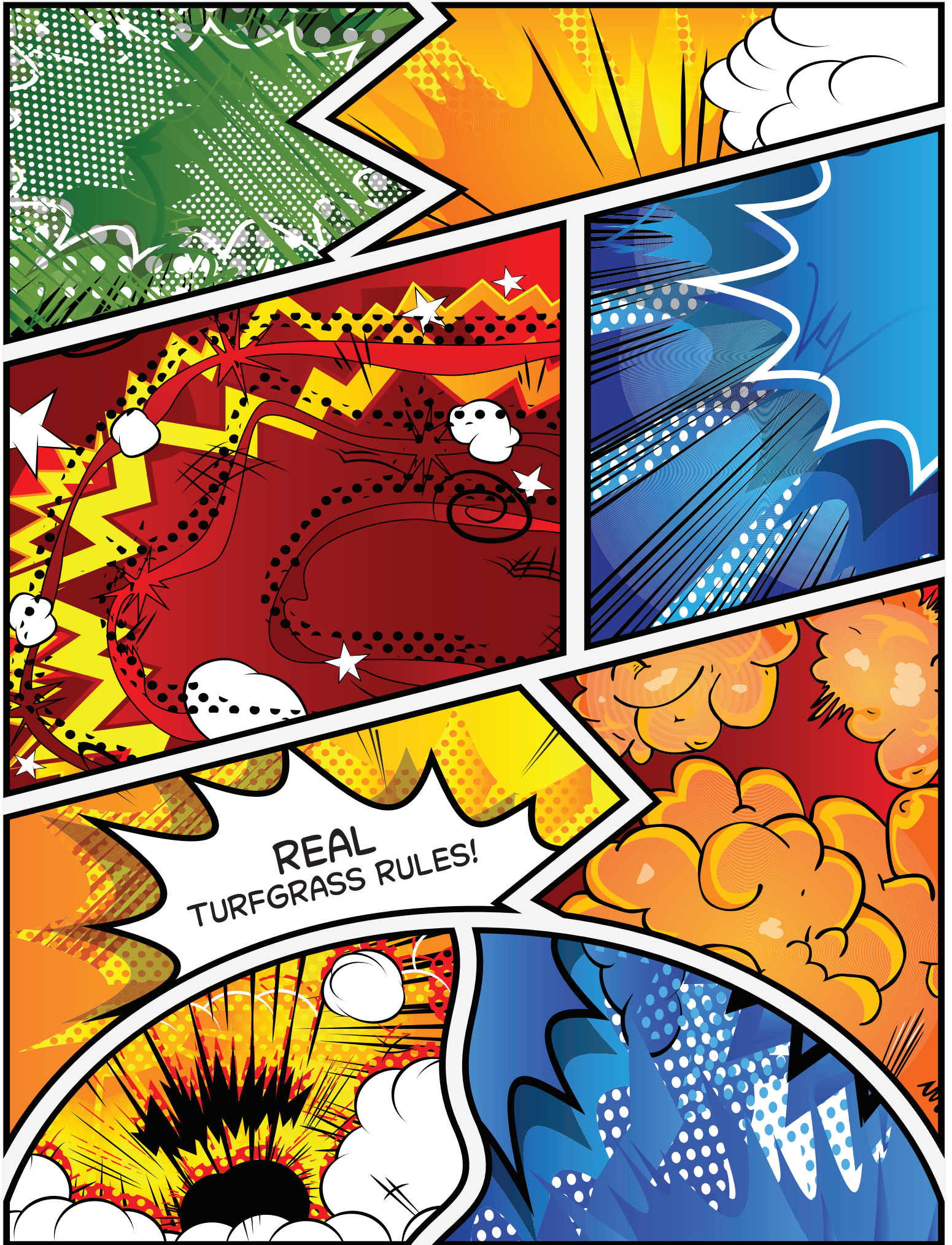
Vivax is a combination of 4 surfactant technologies designed to manage water across a wide range of soil and turf types, making it ideal for use on golf courses and sports turf. Vivax combines two hydration products and two penetration products to make up a 80% hydration and a 20% penetration product. It is effective in programs that increase microbial populations. It improves soil solubility and soil hydration. Vivax does not need to be watered in right away and promotes no burn potential. **RATE: Apply 5 oz./1000 sq. ft. in sufficient water volume 2 x 2.5 gallons/case or 20 gallon drums**



ZIPLINE
\$ 150.00 per gallon

Zipline powered by AquaVita is a soil surfactant that contains Aquatrols' cutting edge, proprietary technology specifically designed to aid turf care professionals to consistently deliver fast, firm, fine turf with soil resource enhancement. It aids soil enhancement by unlocking existing bound nutritional elements. Nutritional elements become more plant available, laying the foundation for consistent playing surfaces. Zipline is safe to use on all turf types. **RATE: 2-8 oz./1000 sq. ft., 6-8 oz. on greens 2 x 2.5 gallons/case**





REAL
TURFGRASS RULES!



**SOIL TECH
BIOS**



SOILTECH

Teaming With Biology



B.O.M.B.™

Breakdown of Organic Matter with Biology



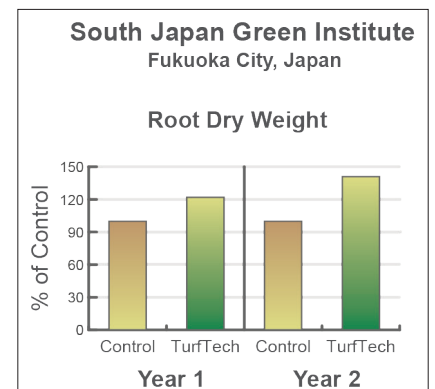
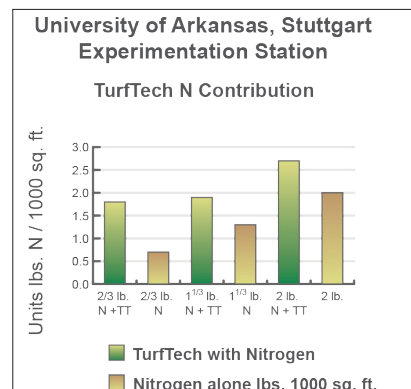
- B.O.M.B. reduces the time required for organic matter decomposition
- Produces a broad spectrum of enzymes including cellulase, protease, lipase, and amylase
- Rapidly accelerates decomposition of excessive thatch and other organic matter
- Increases biological activity



TURFTECH BIO-MEGA™

A Total Microbial Ecosystem

- Reduces fertilizer needs through microbial nitrogen fixation
- Improves turfgrass rooting
- Displaces pathogens in the rhizosphere
- Regulates soil PH to increase turfgrass vigor
- Reduces soil compaction
- Provides a balanced micronutrient blend



ARMOREX

\$ 167.00 per gallon

Armorex is a unique pesticide and repellent product, formulated from botanical extracts. This multi-action liquid kills soil pathogens and nematodes on contact and then maintains a repelling action against nematodes and other soil insect pests. It is effective in turf, tree, and ornamental applications. Tests on golf course turf have shown that when Armorex is used in a rotation with Bac-Pack, the lance nematode populations are reduced as much as 90%. **RATE: 1-2 gallons/acre, per label instructions. 2 x 2.5 gallons/case**



FUNGASTOP

\$ 105.00 per gallon

Fungastop is a low-toxicity alternative fungicide concentrate that you can spray on ornamentals and turf at the first sign of a disease outbreak. Fungastop is a minimum risk product, and it is OMRI listed. Containing naturally derived ingredients that inhibit and control damaging fungi on turfgrass ornamentals, Fungastop is a potent the effective alternative to synthetic agr-industrial chemicals. **RATE: Use 1-2 qts./acre mixed in 50 gallons of water/acre. 2 x 2.5 gallons/case**



BAC-PACK

\$ 315.00 per gallon

Our proprietary blend of beneficial microorganisms and anti-oxidants is designed to improve the rhizosphere in sterile soils. Bac-Pack is used to improve biological diversity in the soil and optimize plant health to help with recovery from wilt, summer stress, and disease symptoms. Regular Bac-Pack drenches improve root growth and help restore turf affected by pathogen damage. Tests on golf course turf have shown that when Bac-Pack is used in a rotation with Armorex T&O to reduce lance nematode populations, users report rapid recovery of damaged turf. **RATE: 1 quart/acre at 2-4 week intervals. 4 x 1 gallons or 2 x 2.5 gallons/case**



FUZION

\$ 47.00 per gallon

Combining macro and micro nutrients, beneficial rhizobacteria, fulvic and humic acids, sea kelp extract and plant derived biostimulant compounds, the Fuzion product line is intended to produce beneficial physical, chemical, biochemical, and biological changes in the soil to help plants withstand abiotic and biotic stressors. **RATE: 1 gallon/acre. See label for details. 2 x 2.5 gallons/case**



FUZION SF (SPRING/FALL)

\$ 260.00 per case

Fuzion SF is a Spring/Fall formulation of Fuzion which includes a complementary 5-5-6 fertilizer. Both products are mixed at a 1:1 ratio. **Rate: See label for details Each case contains 2.5 gallons Fuzion and 2.5 gallons fertilizer**

B.O.M.B.

BREAKDOWN OF ORGANIC MATTER WITH BIOLOGY

\$ 170.00 per gallon in 1 gallons
\$ 155.00 per gallon in 2.5 gallons

B.O.M.B. liquid consists of naturally occurring bacterial strains known to produce enzymes such as lipase, protease, amylase, and cellulase. B.O.M.B. has been specifically formulated to accelerate the decomposition of organic matter in turfgrass. It is used to reduce the time required for organic matter breakdown. **RATE: 1 gallon/acre. See label for details. 4 x 1 gallons or 2 x 2.5 gallons/case**



FUZION S (SUMMER)

\$ 260.00 per case

Fuzion S is a Summer formulation of Fuzion which includes a complementary 5-0-2 fertilizer. Both products are mixed at a 1:1 ratio. **Rate: See label for details Each case contains 2.5 gallons Fuzion and 2.5 gallons fertilizer**

EXCITE

\$ 95.00 per gallon

ExCite is made from shilajit (SHEE-la-jit), which is composed of humic substances such as humic and fulvic acids, along with trace oligoelements including selenium. The minerals in ExCite are in ionic form, which enables better absorption into plant tissues. As a consequence, the activity of this substance is much higher than other biostimulant materials. ExCite can be mixed with foliar applied fertilizers and other materials, or it can be applied as a stand-alone input. Excite is suitable for application to all turf, including urban lawns and is intended to improve responses to abiotic stress. **RATE: Fairways, rough, parks, general turf at 1 pt./acre, greens & tees at 2 pt./acre 4 x 1 gallons/case**



GARLIC GARD

\$ 105.00 per gallon

Garlic Gard is an all-natural, foliar-applied repellent spray that actively repels flying insects and nuisance animals. Garlic Gard is an effective mosquito repellent, and is safe for people, pets, and wildlife. Spray the diluted garlic juice on landscape plants and lawns, in the early part of the day, to repel insect pests for up to two weeks. Garlic Gard repellent may be used as a stand-alone formula or it may be mixed with conventional pesticides to enhance performance. The garlic spray becomes odorless to humans in a few minutes, but remains effective as a repellent for weeks. **RATE: Thoroughly mix 1 part Garlic Gard with 50-100 parts water. See label for spray details. 2 x 2.5 gallons/case**



SOIL TECH BIOLOGICALS!

OASYS ULTRA

\$ 68.00 per gallon

Oasys Ultra is formulated to increase percolation rates in dry, hard, and compacted soils. This premium quality, non-burning wetting agent is fortified with humic acids and sea plant extracts which act as bio-stimulants for improved plant growth. The active ingredient in Oasys Ultra is Quillay extract which contains steroidal saponins that improve plant health and act as natural bio-controls. Our Liquid Aeration Program consists of Thatch Relief and Oasys Ultra concentrates that are combined in water (min. 50 gal/acre) and spray applied. The Liquid Aeration Program delivers cost savings and predictable results in every situation and for every variety of turfgrass. **RATE: 1 gallon/acre, 2-3 times annually. For extremely compacted soils or hard clay soils, use Oasys Ultra at 2 gallons/acre rate. 2 x 2.5 gallons/case**



POND KLEEN

\$ 390.00 per pail

Pond Kleen is a complete, ready-to-use concentration of special enzymes and bacteria that help improve pond water quality. The specific cultures in Pond Kleen have been selected for the rapid breakdown of excess nutrients, algae, and debris in lakes and ponds. The result of Pond Kleen applications is better water clarity, reduction of sludge, algae, and odors. Unlike algaecides, which only temporarily reduce algae growth, Pond Kleen improves overall water quality and is safe for fish and wildlife. **RATE: 1 lb./100,000 gallons at monthly intervals. 25 lb. pail**



SOIL SUCCESS - SOL

\$ 520.00 per pail

Soil Success substantially reduces turfgrass re-growth time after re-seeding, renovation, and/or aeration. It contains a mega-dose of endo-mycorrhizae and Trichoderma (beneficial fungi) that colonize turf roots, extending them out into the soil environment. The result of this symbiosis is that the colonized turf roots provide improved nutrient and water uptake, enhanced health benefits and faster recovery from pathogen damage. Tests have proven that mycorrhizae benefit turfgrass in numerous ways, including reduced phosphorus needs, and drought tolerance. **RATE: 1 lb/5000 sq. ft. after aeration, or at turfgrass installation or re-seeding. 10 lb pail**



THATCH RELIEF

\$ 55.00 per gallon

Thatch Relief is a natural product for the accelerated decomposition of excessive thatch in turfgrass. It is used to reduce the need for expensive mechanical de-thatching (raking, slicing, aerating). Research has shown that one application of Thatch Relief liquid reduces thatch by 15% in just 45 days. Thatch Relief contains a combination of beneficial bacteria, plant enzymes, and surfactants. Apply in spring and fall. Our Liquid Aeration Program consists of Thatch Relief and Oasys Ultra concentrates that are combined in water (min. 50 gal/acre) and spray applied. The Liquid Aeration Program delivers cost savings and predictable results in every situation and for every variety of turfgrass. **RATE: 1 gallon/acre 2-3 times annually 2 x 2.5 gallons/case**



TURFTECH BIO

**\$ 845.00 per case for 4 x 1 lbs.
\$ 1,650.00 per case for 4 x 2 lbs.**

TurfTech Bio combines the proven performance of Turftech's nitrogen-fixing organisms with beneficial microbes that improve plant health and prevent fungal pathogens. The product comes as an easy-to-use wettable powder that can be tank-mixed for spraying. TurfTech Bio is a cost-effective tool for improving golf course soils, sports turf, and home lawns. **RATE: 4 oz./acre applied at 4-8 week intervals. 2 x 2.5 gallons/case**



TURFTECH BIO-MEGA

\$ 645.00 per case for 4 x 2 lbs.

The TurfTech Bio-Mega formula adds a diverse concentration of beneficial microbials that are known to improve turf rooting, nutrient uptake, and plant health. In addition, Bio-Mega contains a variety of plant-derived substances including steroidal saponins. The impact of these phyto-chemicals, when combined with Bio-Mega's microbial communities, is a genuine breakthrough based on solid soil science. Bio-Mega provides turfgrass managers with an economically feasible method of reducing requirements for fertilizer, fungicides, and water. **RATE: 2.5-5 oz./1000 sq. ft. 4 x 2 lbs./case**



TURFTECH BIO-MIN

\$ 535.00 per case for 4 x 2 lbs.

TurfTech Bio-Min is a powerful soil and plant enhancer that combines a patented blend of beneficial microbes with volcanic rock powders. Treated turf shows improved color and resists damage by drought, disease, insects, and fungi. Bio-Min adds vitality to areas prone to wear and tear, and also provides remarkable cost savings compared to standard fertilizers. Bio-Min supplies free nitrogen from biological nitrogen fixation. Regular applications result in high performance turf with reduced need for synthetic fertilizer. **RATE: 1 lb./acre at 4-6 week intervals. 4 x 1 lbs or 4 x 2 lbs/case**



VIGORSOL SOIL INOCULANT

\$ 105.00 per cannister

VigorSol is a proprietary blend containing beneficial species of Trichoderma, a genus of naturally occurring beneficial fungi, used to inoculate soils. The inoculation and cultivation in the soil-plant environment with these beneficial microbes enhances the soil biology. VigorSol contains Trichoderma harzianum and Trichoderma viride, associated with deep root development, improved nutrient uptake, and increased plant vigor and growth. **RATE: 1-2 lbs per acre 10 days before planting. See label for details. 6 x 2.2 lbs/case**





**SPORTS
STUFF**

Controls weeds & grasses up to 6 months.



**Save time.
Conserve your budget.
Get long-lasting control.**

Roundup QuikPro® SC Total Herbicide controls existing weeds & grasses plus prevents new weeds & grasses from growing.

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BLACKSTICK MOUND CLAY

\$ 32.00 per 50 lb. bag

BlackStick, our ultimate professional mound clay, goes through extensive preparation prior to the bagging process. We have done the rigorous prep work already so your crews don't need to spend time and effort struggling with pure, unprocessed gumbo clay on-site. The gumbo is pre-screened to a 1/8" minus, then goes through a process where moisture is added and blended thoroughly prior to bagging. It is dark gray in color and our most durable mound clay with extreme packing density. *50 lb. bags*



DURAPITCH PREMIUM MOUND CLAY

\$ 27.00 per 50 lb. bag

DuraPitch® Premium Mound Clay is moisture-balanced so you'll never have to prepare the clay before applying it. Our mound clay is blended by computer-controlled machines, allowing us to create the perfect mound clay time and time again. *50 lb. bags*



PROFESSIONAL MOUND CLAY

\$ 28.00 per 50 lb. bag

Moisture-balanced Gumbo clay that's ready for play right out of the bag. Durapitch Professional is brownish-gray, with a clay content of 50-70%. It's our most durable mound clay. *50 lb. bags*



PROLOC MOUND BLOCKS

\$ 25.00 per bag (includes 8 blocks)

Producing mound blocks is nothing new to DuraEdge, however this new 10° wedge design is. Our in-house engineer came up with this innovative parallelogram-shaped design to increase durability and hold and minimize seams and gaps. *304 blocks per pallet*



DURAEDGE PROSLIDE CLASSIC RED EXPANDED SHALE

\$ 31.00 per bag
\$ 540.00 per 2000 lb. supersack

Expanded shale top-dressing recommended for recreational to intermediate level. 4 x 30 gradation, larger particle size. *50 lb. bags or 2000 lb. bag*



DURAEDGE PROSLIDE PROFESSIONAL

\$ 21.00 per bag

Recommended for intermediate to professional level. 6 x 30 gradation, smaller particle size. Available in brown or red material color. *50 lb. bags*



FAIRBALL CALCINED CLAY TOPDRESSING

\$ 16.00 per 40 lb. bag

FairBall is engineered to stay in place and give you more coverage and provide less particle breakdown, which means less applications, making FairBall the most economical topdressing on the market. The volume of product recommended per infield is greatly reduced from industry standard, giving you the opportunity to apply FairBall on more fields. **New bag size: 40 lb. bags**



PLATINUM CALCINED CLAY TOPDRESSING

\$ 19.00 per 40 lb. bag

Platinum is engineered to be the most consistent medium gradation particle size topdressing. Reduced fines and smaller particles means more coverage and less clumping when dragging in wet conditions. Higher density and hardness results in less breakdown, less migration of particle and that equates to fewer applications and less contamination. **New bag size: 40 lb. bags**



PLAYBALL CALCINED CLAY TOPDRESSING

\$ 20.00 per 40 lb. bag

PlayBall is engineered to stay in place and provide less particle breakdown. It is designed for superior durability which results in less contamination, meaning it stays on the surface longer. PlayBall is more attainable for end users at all levels who want to implement a professional grade calcined clay material. **New bag size: 40 lb. bags**



PRODRY CALCINED CLAY TOPDRESSING

\$ 20.00 per 40 lb. bag

ProDry is engineered to quickly remove standing water. Our screening process removes very fine particles and dust meaning this material can be dragged in the following day without compromising the integrity of your infield skin. In addition to water removal, ProDry will leave a clean, finely manicured appearance without creating a layering effect. **New bag size: 40 lb. bags**



DURAEDGE CLASSIC INFELD MIX

\$ 365.00 per 2000 lb. supersack (50 lb bags are discontinued)

Dura-Edge Classic Infield Mix is a blend of 72% sand, 12% silt, and 16% clay. It's lower silt to clay ratio enables a firm playing surface. Our Classic is low maintenance; it does not require access to water to maintain the field. *2000 lb. supersack*

DURAEDGE PROFESSIONAL INFELD MIX

\$ 460.00 per 2000 lb. supersack (50 lb bags are discontinued)

Dura-Edge Professional Infield Mix is a blend of 60% sand, 18% silt, and 22% clay. It has the highest clay content of DuraEdge infield mixes, which helps create a firm, corky, playing surface. DuraEdge Professional requires access to water to manage the moisture content of the field. *2000 lb supersack*

TURFACE INFIELD MATERIALS!

TURFACE PROFESSIONAL MOUND CLAY (RED)

\$ 27.00 per bag

Turface Mound Clay is finely engineered to the highest specifications. It is a 100%, high-density, pure virgin clay that delivers long-lasting performance. It's shredded material is ideal for shaping mounds. Pliable construction makes it easy to mold into just the right form. It's an excellent additive to soft, sandy areas of the infield to firm them up for safer footing and consistent ball hops. This high-quality packing clay is sold loose in 50 lb. bags. It's ideal for repair and maintenance of existing clay pitching mounds, batters boxes and catchers boxes. **RATE to renovate the following:**

Pitching Mound Table: 11-17 bags **Landing Area: 20-30 bags**
Batter Boxes: 38-58 bags **Catchers Box: 13-20 bags**
40 x 50 lb. bags per pallet



TURFACE PRO LEAGUE

\$ 21.00 per bag Pro League Natural
\$ 25.00 per bag Pro League Red
\$ 25.00 per bag Pro League Heritage Red
\$ 25.00 per bag Pro League Champion Brown



More groundskeepers rely on Turface Pro League than any other infield conditioner for one fundamental reason, to give players the opportunity to perform at their best. With improved manufacturing and dyeing processes, the performance is better than ever. Smaller, more uniform particles assure a smooth, professional, skinned playing surface, minimizing potentially dangerous bad hops. Moisture-absorbing properties improve footing and help to prevent rainouts. Color choices enhance visibility and aesthetics.

RATE: Baseball Field: 10-15 tons **Softball Field: 9-12 tons**
Little League: 3-5 tons
40 x 50 lb. bags per pallet

TURFACE MOUNDMASTER BLOCKS

\$ 30.00 per bag (includes 8 blocks)

A high-quality packing clay formed into easy to use blocks for excellent durability. The blocks are sized perfectly for construction or repair of batter's boxes and pitching mounds from the ground up. Pliable construction makes it easy to mold into just the right form. The blocks are 2 1/2" x 4" x 8" and are sold in pallet quantities. **RATE: To renovate:**

Pitching Mound Table: 46-53 blocks **Landing Area: 91-111 blocks**
Batter Boxes: 126-216 blocks **Catchers Box: 36-75 blocks**
304 blocks per pallet



TURFACE QUICK DRY

\$ 20.00 per 50 lb. bag

The fine particles of Turface Quick Dry make it the perfect choice for quickly clearing up puddles and mud on skinned infields. Just dump and rake to make your infield safe and playable. A quick absorbent for trouble spots on athletic fields, Quick Dry can absorb its weight in water. It won't harden or cake like similar water-absorbing products. Ideal for puddles that have formed during periods of heavy rain. Very fine particle size. **RATE: No set rate, just poured on the puddles and worked in.** *40 x 50 lb. bags per pallet*



TURFACE MVP

\$ 20.00 per bag

A granulated inorganic calcined clay soil conditioner which is nontoxic and odorless. Turface MVP will absorb and hold a large amount of water, yet drain off the surplus. Its larger particle size is excellent for incorporating into infield mix, topdressing to create a consistent and level playing surface, helping prevent rain outs, and improving native soil for turf renovations. An excellent product for use on athletic fields for fighting compaction and absorbing rainout puddles.

RATE: Baseball Field: 10-15 tons **Softball Field: 9-12 tons**
Little League: 3-5 tons
40 x 50 lb. bags per pallet



**NEED TO CHECK THIS OUT!
 AWESOME PRODUCTS TO BUILD
 TOP NOTCH BASEBALL FIELDS!**

**IT'S A
 HOME RUN!**





LINEMARK iGO DELUXE LINE MARKING MACHINE

\$ 1,920.00 each

The iGO DELUXE line marking machine is easy to set-up, operate and clean. The battery secures 4-5 hours of constant spraying. After each use plug in and charge the battery, which will automatically turn off when fully-charged. For easy cleaning and maintenance it comes with two filters, one in line and a prefilter that sits in the paint canister. The iGO come with a variety of nozzles, a screen, a quick release and a sample of Flush Thru cleaner. Choose your color coded nozzle to determine the amount of paint you wish to use. The spinning nozzle technology coats both sides of the leaf blade with one pass, allowing for a reduction in the amount of paint and time needed to paint the field from start to finish. The low pressure pump keeps from blasting the paint on the leaf blade and only painting one side of the leaf.



LINEMARK iGO MINI LINE MARKING MACHINE

\$ 890.00 each

Easy to set-up, operate and clean, the iGO Mini can be easily folded for transport and storage. It comes with two filters along with a variety of nozzles, a screen, a quick release and a sample of Flush Thru cleaner. The iGo Mini is best-suited for smaller use on baseball/softball fields, with the iGO Deluxe recommended for facilities that paint football and soccer fields also. Both the iGo Deluxe and the iGo Mini are designed to be used with the Impact and Impact XP paints from Linemark.



LINEMARK IMPACT MARKING PAINT

Linemark Impact marking paint is the most advanced, ready-to-use line marking paint available. The paint is applied directly from its container without water. Impact will provide the brightest, whitest lines with superior light-reflecting qualities. Under dry conditions and moderate temperatures above 5°C (41°F), the paint will become rainfast in as little as 20 minutes. Applying Impact paint using one of the iGO spray marking machines is quick and trouble free. The combination of the formulation techniques, the pump and the unique nozzles makes it possible to over-mark a standard size football/soccer field with as little as 0.42 gallons of paint. This means that it is possible to overmark more than six standard size soccer fields with a canister of 2.64 gallons. All these fields can be marked without the inconvenience of frequent mixings, pourings and refills. Shake or stir the paint well, open the container cap, insert the paint flow probe and screw the cap back on – it's that simple.



IMPACT WHITE PAINT

\$ 88.00 each

Economical, bright, white and long-lasting
2.64 gallons (10 liters)

IMPACT XP WHITE PAINT

\$ 145.00 each

Very bright, very white and longer-lasting
2.64 gallons

*****COLORS AVAILABLE. CALL FOR DETAILS**

WORLD CLASS PAINTS PREMIUM CONCENTRATE

\$ 190.00 per bucket

The Original Premium Concentrate. Our Premium Concentrate is made of 100% acrylic with no calcium carbonate that could be harmful to grass. Our paints include more brightening and enhancing titanium dioxide than any other paint in the industry. No drying agents are allowed. This concentrate can be diluted to match practice or game day needs, giving the user the ability to determine the level of brightness. Available in white and 15 standard World Class colors and custom colors. **Also available in Ready-to-Use formulations.** 5 gallon bucket



WORLD CLASS SPORTSFIELD AEROSOL

PRICE VARIES PER COLOR

A quality World Class water-based aerosol at a lower price. An economical choice when the need arises. Call for color availability and pricing. 12 - 18 oz. cans per case



WORLD CLASS PAINTS COACH'S CHOICE

\$ 135.00 per bucket

At a lower price than our Premium Concentrate, this highly pigmented acrylic paint is still an excellent choice for natural grass. Available in white and 15 standard World Class colors and custom colors. 5 gallon bucket

WORLD CLASS GPS PAINTER MIX (WHITE)

\$ 85.00 per bucket

Our white field marking paint, specially formulated to a viscosity suitable for GPS Painter machines. 5 gallon bucket

WORLD CLASS IS W-O-R-L-D C-L-A-S-S!

LOUISVILLE SLUGGER GAME TIME WHITE FIELD MARKING POWDER

\$ 490.00 per pallet of 56 - 50 lb. bags

Louisville Slugger Game Time White field marking powder is perfect for marking all athletic fields. It delivers a bright white appearance, is non-toxic and easy to apply. It complies with the NCAA rules for athletic marking powders and can be used on baseball, softball, football, soccer or any athletic field. **RATE: The average ball field takes 3-4 bags to line the baselines and homeplate area, however, lighter rates can be used per the applicators preference.** 56 - 50 lb. bags per pallet



Sport Field Painting Tips

Straight lines, crisp numbers, and clear markings on your field can set your field apart. Using the right equipment, with good application techniques and quality paint, your field's aesthetic appearance and playing conditions can be greatly enhanced. Poor quality paint applied repeatedly on a field will lead to turfgrass die-back, which will impact player footing and safety. Field markings establish the parameters by which the game is played and poorly applied field markings can impact the quality and even the outcome of the game.

The following tips are excerpted from STMA's SportsTurf Magazine, Top 5 Painting Recommendations, Parts 1 and 2, July and August 2007. Authors include: Bob Campbell, CSFM, Eric Fasbender, CSFM, Tony Leonard, Mark Malloy, Greg Narmour, Jay Warnick, CSFM, and Steve Wightman.

For additional information, contact the STMA at ph. 800-323-3875, or STMAinfo@STMA.org

Planning

- Develop your painting schedule according to scheduled games/events and time of year. Try to paint within 48 hours of your event to have the freshest look.
- Have a contingency plan if inclement weather delays your painting, i.e. using a fast drying aerosol, or painting in sections as practices and weather allows.
- Make certain all equipment, product and personnel are ready.

Preparation

- Mow the field before painting, but keep it to a minimum after painting.
- Set benchmarks around the perimeter of the field to eliminate the need to measure. Layout sets are available each time for all sports - every level - from industry suppliers or you can make your own.
- When measuring for field lines or setting benchmarks always use a steel tape measure for the most accurate measurements.

(Continued on next page)

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Your Resource for Safer Football Fields

Brought to you by the Sports Turf Managers Association and its charitable Foundation, The SAFE Foundation



Sport Field Painting Tips

Bulk paint

Bulk paint can be bought in 1 gallon cans or 5 gallon pails. The advantages with bulk paint are that you can dilute the mix and get numerous applications from one pail. Another advantage of bulk paint is that the quality of the lines and logos are outstanding. A disadvantage is that you have to have a "Paint Machine" to apply the paint, and the machine has to be cleaned after every paint application. Overall, the use of bulk paint will be less expensive in the long run compared with aerosols due to the average cost of the bulk paint versus the cost of aerosols.

- Mix it thoroughly in a safe, nearby area and do not let any paint run into storm drainage areas. You can use a large electric drill with a mixing blade.
- Mix paint at a 1:1 ration for the first application, then a 3:1 or 4:1 (water: paint) for a second coat or touch-ups.
- Always strain paint as you fill the paint machine.

Estimate on Amount of Paint to Use:

A regulation size football field (53.3 x 120 yards) uses about 15 gals of MIXED paint to the field numbers and hashes, but not the white 6' border. Using the 1:1 ration, you would need approximately 7 ½ gallons.


A smaller Pee Wee field would use less than 10 gallons of MIXED, thus they would need 5 gallons of paint.

A high school soccer field would need approximately 7 gallons of paint.

Painting Techniques

- Use templates, stencils, paint lining machines, and string lines for professional results.
- Use paint machines that provide a uniform spray at various pressures ("airless" paint machines work very well).
- Use the least amount of paint possible to adequately cover the surface (paint only the leaf tissue, not the soil)
- Paint logos from the inside out. When spraying large areas in a back and forth motion, always start and stop the spray gun with each change of direction to avoid putting too much paint down at that point.
- Use a cardboard or flexible, lightweight, plastic "shield" when painting logos and numbers to avoid overspray. One person holds the shield, while another person sprays.
- Paint all the areas that have the same color, then clean the machine and change colors.
- Small logos and detail areas can be painted with a pump-up sprayer, brushes or rollers.
- Always have a bucket of warm water and rags to wipe up any "oops" that occur.
- Begin the job with enough time to complete the task and have it dry before play.
- Always thoroughly clean up after each painting day, including your paint machine, tips and screens.

2



**AQUATIC
TOOLS**

TriCure[®]

Soil Surfactant

TRICURE - TRIED & TRUSTED

Protect your turf from the increasingly hot and dry conditions of summer. Trust **TriCure AD**.



Stands up to the harshest conditions



Works on all soil types



Effective at low rates



Hydrates organic matter in soil profile



Enhances moisture for soil microbiome performance



Non-phytotoxic – does not require immediate watering-in



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MITCHELL
PRODUCTS

ADMIRAL LIQUID
(Acid Blue 9 + Acid Yellow 23)
EPA REG #67064-2
\$ 95.00 per gallon

Admiral aquatic algae and weed control enhances the appearance of water features with a blue colorant, while also controlling the growth of several types of aquatic weeds and algae. With the highest pure dye actives of all EPA registered lake colorants, it produces a higher quality, longer-lasting color. When applied early in the weed growth season, Admiral can help keep your water features free from unattractive nuisance plants. **RATE: 1 gallon/4 acre feet 4 x 1 gallons/case**



CAPTAIN XTR
(Copper Ethanolamine Complex)
EPA REG #67690-9
\$ 63.00 per gallon

Through INFUSION, Captain XTR is the best available technology for the control of all types of algae. Captain XTR is optimized to increase the penetration of copper (INFUSION) into algae cells and enhance efficacy. This formulation feature is especially impactful when targeting tough to control mat forming, colonial and mucilaginous Algae species. Waters treated with Captain XTR may be used for swimming, fishing, watering livestock and irrigation of food and non-food crops (e.g. turf, ornamentals) during and after application. **RATE: 0.6-3.0 gallons/acre foot 2 x 2.5 gallons/case**



AQUATHOL K
(Dipotassium salt of endothal)
EPA REG #61943-1
\$ 165.00 per gallon

Aquathol K is a ready-to-use, concentrated quick-acting contact herbicide which dissipates quickly and leaves no residue. It controls submerged weeds in lakes and ponds and the short residual contact time (12-48 hours) makes it effective in both still and slow moving water. It can also be used in muddy water, because it doesn't bind to suspended sediment or organic matter. It will not harm the environment, fish, birds or other aquatic life. Labeled for use on pondweeds, milfoil, coontail and naiad. **RATE: 0.6-3.2 gallons/acre foot, depending on the plant species to be controlled and the size of the treatment area. NO IRRIGATION RESTRICTION WITH AQUATHOL 2 x 2.5 gallons/case**



CLEARCAST
(imazamox)
EPA REG #241-347-67690
\$ 160.00 per quart

Clearcast effectively controls floating, emergent and shoreline weed species and is the best product for controlling cattails and phragmites. Clearcast's selectivity makes it ideal for aquatic areas used for fishing and other recreational activities. Minimal irrigation restrictions allow Clearcast to be applied in a large variety of aquatic environments, including golf course ponds. MSO as a surfactant is recommended. Refer to the label for details. **RATE: 1-2 quarts/acre 6 x 1 quarts/case**



AQUATHOL SUPER K
(endothall)
EPA REG #70506-191
\$ 730.00 per 20 lbs.

Aquathol Super K is a granular aquatic herbicide for the control of weeds such as coontail, milfoil, naiad, but is best know for its control of several species of pondweed. Refer to the label for details. **RATE: For pondweed use, 8.8-13.2 lbs/acre foot. NO IRRIGATION RESTRICTION WITH AQUATHOL SUPER K. 20 lb. bag**



CLIPPER SC
(Flumioxazin)
EPA REG #71368-114
\$ 1,300.00 per gallon *CLOSEOUT PRICE**

Unlike WDG formulations, liquid Clipper SC blooms quickly and mixes easily. With only slight agitation, Clipper SC mixes evenly and completely. Plus, it stays in suspension longer – even after two hours without agitation, Clipper SC shows no signs of settling. **RATE: 6-12 oz./surface acre. 5 x 1 gallons/case**



CAPTAIN
(Copper Ethanolamine Complex)
EPA REG #67690-9
\$ 57.00 per gallon *CLOSEOUT PRICE**

Captain is your ideal tool for economical and effective control of a broad-spectrum of filamentous and planktonic algae. This premium quality aquatic algicide offers a formulation of 9% double-chelated copper. Algae control can be achieved 3 to 7 days after proper application. Water treated with Captain may be used for swimming, fishing, watering livestock and for irrigating turf, fairways, putting greens, and ornamental plants immediately after treatment. **RATE: 0.6-3.0 gallons/acre foot 4 x 1 gallons/case**



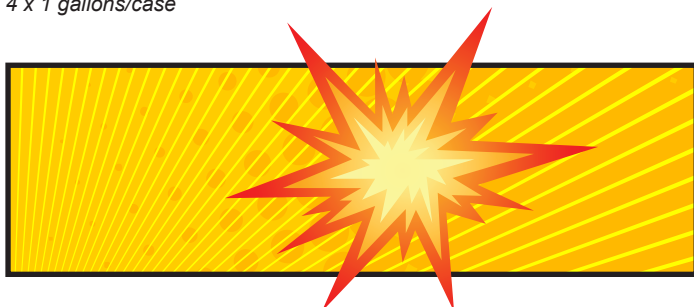
COPPER SULFATE (aquatic label)
EPA REG #56576-1
\$ 165.00 per bag

Copper sulfate medium-sized crystals for the control of filamentous and plankton algae. Most easily applied by dragging it in a loose burlap bag over the surface of the water. Can also be dissolved in water and sprayed from the bank or broadcast as a granular. Will have some control of aquatic weeds from the broadcast application. **RATE: 3-6 lbs./acre foot of water 50 lb. bag**



CUTRINE PLUS GRANULAR
(Copper Ethanolamine Complex)
EPA REG #8959-12
\$ 127.00 per bag

A granular formulation of Cutrine Plus, especially formulated for the control of chara, nitella, and other bottom-growing algae. **RATE: For spot treatment, 1 lb./720 sq. ft., for larger areas use 60 lbs. per surface acre. 30 lb. bags**



AQUATIC PRODUCTS!

DIQUAT SPC 2L (Diquat dibromide) EPA REG #228-675

\$ 106.00 per gallon in 2.5 gallons
\$ 109.00 per gallon in 1 gallon

Diquat SPC 2L herbicide provides non-selective control of aquatic weeds on contact. It spreads quickly through the water for broad-spectrum control of floating, submersed and marginal weeds. The product is foliar-applied and is slightly translocated through plant tissue. A surfactant enhances activity. It is completely inactivated on contact with soil. With Diquat SPC 2L herbicide, there are no concerns about groundwater, toxicity to fish, other organisms or wildlife. **RATE: Broadcast 0.5-2.0 gallons/surface acre in sufficient spray carrier, plus 16-32 oz./acre of an approved wetting agent. 4 x 1 gallon or 2 x 2.5 gallons/case**



PHOSLOCK (Phosphate sequestering agent) **\$ 245.00 per bag ***CLOSEOUT PRICE**

Phoslock is a patented phosphorus-locking technology to restore water quality in ponds, lakes and reservoirs. For over ten years, Phoslock has been successfully used in water resource restoration programs around the world. Given the favorable features of Phoslock, such as its very low toxicity, its ability to permanently bind free reactive phosphorus (FRP) over a wide range of water chemistries, and the fact that it does not form flocs, Phoslock is one of the most effective phosphorus locking technology for in-situ phosphorus management in surface water. **RATE: Call for details 55 lb. bag**



POND KLEEN (Microbes) **\$ 390.00 per pail**

Pond Kleen is a complete, ready-to-use concentration of special enzymes and bacteria that help improve pond water quality. The specific cultures in Pond Kleen have been selected for the rapid breakdown of excess nutrients, algae, and debris in lakes and ponds. The result of Pond Kleen applications is better water clarity, reduction of sludge, algae, and odors. Unlike algacides, which only temporarily reduce algae growth, Pond Kleen improves overall water quality and is safe for fish and wildlife. **RATE: 10-26 pucks/acre foot. 66 count pail**



POND PUCKS (Microbes) **\$ 332.00 per pail**

Pond Pucks are a natural, biological water treatment formulated to clarify water in ponds, lakes, and small water features while reducing muck buildup. A biodiverse group of beneficial bacteria are incorporated into the pucks to remove excess nutrients from the water column such as phosphates, nitrates and ammonia that can create an unbalanced ecosystem. Each Pond Puck works effectively in different water quality conditions, including low-oxygen environments. **RATE: 10-26 pucks/acre foot. 66 count pail**



PRECISE POND (Microbes) **\$ 500.00 per case ***CLOSEOUT PRICE**

Precise Pond is a combination of enzymes and bacteria that preemptively digest phosphorus and nitrogen in the water column, while accelerating the breakdown of partially decomposed organic matter, waste and sludge accumulation on lake and pond bottoms. **RATE: Initial dosage will require 3-6 lbs./surface acre of water 24 x 8 oz./case**



EUTROSORB F **\$ 215.00 per 2 filters**

EuroSORB filters focus on stopping phosphorus concentrations from external flowing water. The filters cut off phosphorus at the source and reduce buildup in lakes. This means less algae growth and healthier water bodies. No equipment necessary for use, simply place it in water. EuroSORB has high phosphorus binding capacity – approximately 100 lbs. of EuroSORB will remove 1 lb. of phosphorus. Simply replace EuroSORB filters after recommended intervals. Exhausted EuroSORB media can be reused as soil amendment or disposed to a landfill. **2 - 25 lb sock filters/case**



**NEW
PRODUCT!**

KOMEEN CRYSTAL WEED CONTROL (Copper Complex) EPA REG #67690-60 **\$ 245.00 per bag ***CLOSEOUT PRICE**

Komeen Crystal provides consistent on-contact, broad-spectrum control of nuisance weeds and bottom algae in a wide variety of application situations, including high turnover and small spot treatment areas. Water treated with Komeen Crystal can be used immediately after treatment for irrigation, drinking, fishing, swimming and recreation. **RATE: 40-60 lbs./acre 20 lb. bags**



NIGHTSHADE LAKE & POND DYE **\$ 60.00 per gallon**

Nightshade Lake & Pond Dye is a versatile, easy-to-use, non-toxic water impoundment dye colorant. It mixes completely in water to prevent sunlight penetration. It will not harm fish or wildlife associated with water impoundments. Treated water is safe to use as an irrigation source for all purposes. Nightshade Lake & Pond Dye reduces and prevents weed and algae formulation in shallow bodies of water. It dyes the water a black color. **RATE: 1 gallon/4 acre feet 4 x 1 gallons/case**



**NEW
PRODUCT!**

RENOVATE 3
(Triclopyr)
EPA REG #62719-37-6790
\$ 91.00 per quart

Ideal for control of submersed, emersed, and floating plants in and around ponds, lakes, reservoirs, non-irrigation canals, ditches, marshes, and wetlands. Delivering triclopyr, Renovate's active ingredient, throughout the plant's leaves and stems, it interferes with the metabolism of most broadleaf plants, while having little to no impact on most grassy type species. Foliar/surface applications provide highly effective control of purple loosestrife, water hyacinth, water primrose, and other emersed or floating plants. Sub-surface applications control submerged weeds such as Eurasian watermilfoil in large target areas or shallow waters. Renovate 3 carries no restrictions on recreational use, such as swimming or fishing, or livestock consumption. It may be used near active, potable water intakes. **RATE: 0.7-2.3 gallons/acre foot 6 x 1 quarts/case**



SECLEAR
(Copper Sulfate Pentahydrate)
EPA REG #67690-55
\$ 26.00 per gallon

SeClear was designed from the ground up to control nuisance algae and enhance water quality. By treating the algae present and reducing the amount of available phosphorous and suspended solids with each application, SeClear has been documented to provide algae control, longer intervals between applications, smaller follow-up applications and better water quality. **RATE: 1.0-6.5 gallons/acre foot. 2 x 2.5 gallons/case**



SECLEAR G
(Copper Sulfate Penahydrate)
EPA REG #67670-92
\$ 346.00 per bag

SePRO's new granule formulation provides all of the proven algaecidal and water quality enhancement benefits of the liquid SeClear formulation with several improvements. It is used for algae control, phosphorus reduction and water quality enhancement, while controlling surface and bottom algae (including Chara). SeClear G can be used by broadcasting the granule or dissolving in water and spraying on the surface of the water. By reducing the amount of available phosphorous and suspended solids with each application, the SeClear G formulation provides better algae control, reduced algaecide inputs, longer intervals between applications and improved water quality. **RATE: 15-25 lbs./acre 20 lb. bag**



REWARD
(formerly DIQUAT)
EPA REG #100-1091
\$ 145.00 per gallon in 1 gallons
\$ 115.00 per gallon in 2.5 gallons

Reward Landscape and Aquatic Herbicide is a non-volatile herbicidal chemical for use as a general control to weeds in non-crop and aquatic areas. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. Reward is most widely used in Iowa for its control of duckweed. An excellent control for floating and submerged weeds. It acts and dissipates quickly. **RATE: Floating weeds: 1 gallon with 8 oz. of sticker to cover 3 - 4 acres. Submerged weeds: 1- 2 gallons of REWARD/acre. 4 x 1 gallons or 2 x 2.5 gallons/case. NON-UPS PRODUCT**



SONAR A.S
(Fluridone)
EPA REG #67690-4
\$ 1,260.00 per quart

Sonar is a selective, systemic aquatic herbicide for the management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals, irrigation canals and rivers. Sonar is absorbed from water by plant shoots and from hydrosoil by the roots of aquatic vascular plants. It is important to maintain Sonar in contact with the target plants for as long as possible. Sonar is labeled for use on submersed and emersed aquatic weeds but does not control algae. Refer to the label for a complete list of weeds controlled. **RATE: 1.0-1.5 quarts/5 acre feet. (30 day restriction for irrigation) 6 x 1 quarts/case**



ROUNDUP CUSTOM
(Glyphosate, N-(phosphonomethyl)glycine 53.8%)
EPA REG #524-343
\$ 102.00 per gallon

Anywhere weeds and water meet, there's a chance that vegetation management problems will grow. And anyone who manages brush in wetland areas knows that when left unchecked, vegetation can create hard-to-resolve problems. Roundup Custom herbicide gives applicators maximum use flexibility for both aquatic and terrestrial jobs. It is non-selective and highly effective on more than 190 species of emersed weeds, brush and vines. **RATE: 1-10 oz./gallon of water 2 x 2.5 gallons/case**



SONARONE
(Fluridone)
EPA REG #67690-45
\$ 855.00 per 20 lb. pail
\$ 55.00 per 5 lb. container

SonarOne is a unique controlled-release formulation that results in a quick initial target dose of Sonar followed by a sustained release. SonarOne has a 30 day irrigation restriction. It is excellent for water bodies with both low and high turnover. Recommended for use on bladderwort, coontail, duckweed, elodea, Eurasian watermilfoil, hydrilla, naiads, pondweed and spatterdock. **RATE: 2.5-5 lbs./acre foot 20 lb. pail or 5 lb container**



SAPPHIRE LAKE & POND DYE
\$ 60.00 per gallon

Sapphire Lake & Pond Dye is a blend of blue and yellow dyes which shade specific portions of the sunlight spectrum required by underwater aquatic plant and algae growth. This aquablue pond dye creates shading that inhibits photosynthesis in young, bottom growth, and may prevent the development all together if pond color is maintained throughout the early season. **RATE: 1 gallon/4 acre feet 4 x 1 gallons/case**



AQUATIC PRODUCTS!

SUREGUARD SC
(Flumioxazin)
EPA REG #71368-114
\$ 568.00 per case
\$ 215.00 per pint

New from Nufarm, SureGuard SC delivers fast and selective control of tough invasive and nuisance plants such as cabomba, watermeal, Eurasian watermilfoil, water lettuce, duckweed, giant salvinia and more. Plus, SureGuard dissipates quickly from the water column and does not accumulate in sediment. SureGuard SC enhances the speed and spectrum of glyphosate when used as a tank-mix partner, even on glyphosate-resistant weeds. It's a non-staining, spray formulation with no yellow color, odor, or concerns with off-target movement and volatility. It's approved for aquatic and bareground. **RATE: 6-12 oz./surface acre 4 x 64 oz. or 8 x 16 oz pints/case**



TRUE BLUE EZ SoluPak
(Acid Blue 9 + Acid Yellow 23)
\$ 406.00 per case

True Blue EZ Solu Pak is a proprietary blend of environmentally friendly, non-toxic, water-soluble dyes formulated to reduce sunlight penetration and impart a natural blue color when applied to ponds, lakes and fountains. True Blue EZ SoluPak are protected by a unique, waterproof, foil-lined over-pack to prevent accidental staining while handling. **RATE: Each True Blue EZ SoluPak will effectively treat 1 acre foot, or approximately 325,852 gallons of water. To determine the initial number of SoluPaks to apply, multiply the surface acres of the body of water by 4. Once dye has been dispersed, adding additional SoluPaks, if desired, can increase color intensity. 24 x 5.25 oz. packets/case**



TRIBUNE
(Diquat)
EPA REG #100-1390
\$ 92.00 per gallon

Tribune is a fast-acting herbicide that desiccates plant tissue on contact. Within minutes of application Tribune stops plant photosynthesis depending on conditions. It is an effective product on a wide variety of submersed, emergent and floating aquatic plants. **RATE: See label for details 2 x 2.5 gallons/case**





**BIOS &
MICROS**



INTRODUCING
CARBONCOAT™
FERTILITY BLENDS

HCAS™

HUMIC COATED AMMONIUM SULFATE

HCU®

HUMIC COATED UREA

PCHCU™

POLY-COATED HUMIC COATED UREA

Along with their featured CarbonCoat components - HCU, PCHCU, and HCAS - these innovative blends also feature beneficial materials like SmartPhos® DG slow-release phosphorus, carbon-rich humic acid, and more.



16-3-3

50% PCHCU, 50% HCAS, SmartPhos DG



24-0-4

75% PCHCU, 25% HCAS



34-0-6

100% PCHCU

FOR MORE INFORMATION

Darrin Johnson | 515-249-8980 | darrin_johnson@andersonsinc.com

   @TheAndersonsPro |  AndersonsPro

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BIOSTIMULANTS & MICRONUTRIENTS!

FERRAMEC AC (Iron amine compatible)

\$ 23.00 per gallon for 55 gallon drum

FerROMEAC AC Liquid Iron is a sprayable formulation containing iron, combined with nitrogen and sulfur, designed to produce a rapid turf green-up. The urea in FerROMEAC AC carries the iron sulfate into the plant quickly and efficiently. The urea and iron sulfate quickly break down after being absorbed by the plant to produce rapid green-up. It's a liquid 15-0-0 with 3% sulfur and 6% iron. Very compatible with most pesticides. **RATE: 2-8 oz./1000 sq. ft. 55 gallon drums**



IRON PLUS 15-0-0 (6% FE)
\$ 23.50 per gallon in 2.5 gallons
\$ 1,250 per 55 gallon drum
\$ 5,500 per 250 gallon tote

Iron Plus 15-0-0 with 6% Fe is a supplemental nitrogen and iron fertilizer designed to achieve rapid green-up of turf. Although it is formulated to be stable in most tank mixes with commonly used fertilizers and pesticides, always conduct a jar test to confirm compatibility. It uses 15% Urea to open up the plant for quicker uptake and response. **RATE: 2-8 oz./1000 sq. ft. Use a max of 3 oz./1000 sq. ft. when air temperatures exceed 90 degrees. 2 x 2.5 gallons/case, 55 gallon drums or 250 gallon totes**



GRANUSOL MANGANESE (Manganese)

\$ 60.00 per bag

Granusol Manganese Sucrate 35% Mn is a source of all divalent Mn readily available for plant uptake and manufactured in all three mesh sizes for use in dry-mixed, bulk-blended fertilizers. It's dispersible granules, complete with essential sugars that provide consistent slow-releasing nutrient uptake, keeping plants healthy and strong throughout the growing season. Manganese is an essential micro-nutrient that is important in the synthesis of chlorophyll and activates enzymes involved with N uptake. **RATE: 2-4 lbs./1000 sq. ft. Refer to the label for complete details. 50 lb. bags**

IRON PLUS EXTREME MICROS
\$ 38.50 per gallon in 2.5 gallons
\$ 950.00 per 30 gallon drum
\$ 7,500.00 per 250 gallon tote

Ignition IRON PLUS EXTREME is just Iron Plus with a micro Pak added for nutrient-deficient turf and soil situations. Use Iron Plus Extreme any time you are looking for a quick color response in any turf situation. **RATE: 2-8 oz./1000 sq. ft. Use a max of 3 oz./1000 sq. ft. when air temperatures exceed 90 degrees 2 x 2.5 gallons/case, 30 gallon drums or 250 gallon tote**



AUTOSTART 2-0-2 \$ 48.00 per gallon

Ignition AutoStart is a supplemental liquid fertilizer containing extremophilic plant extracts, amino acids, complex carbohydrates and SAR elicitor compounds. It is designed to enhance nutrient uptake and may enhance a plant's ability to combat stress. AutoStart is a great foundation to any greens or tees program and an excellent product for sports turf fields when seed establishment is challenged by field use. **RATE: 2-4 oz./1000 sq. ft. in turf/tees/greens and fairways, 6-8 oz/1000 sq. ft. for foliar stress recovery, 2.5 gallons per acre for fertigation. See label for details. 2 x 2.5 gallons/case**



SPARK ROOT BIOSTIMULANT 14-4-2
\$ 44.00 per gallon in 2.5 gallons
\$ 1,300 per 30 gallon drum

Spark Root Biostimulant fertilizer uses Humic and Fulvic acids, derived from young active Leonardite, black strap molasses and concentrated Ascophyllum nodosum from sea kelp, in combination with a nutrient fertility base, to promote and develop root growth, increase tiller rhizome and stolon production and promote turf stress health throughout the growing season. It is designed for use on residential and commercial turf, athletic fields, golf courses and ornamental applications. **RATE: 48 - 96 oz. per acre or 1.1 - 2.2 oz per 1,000 sq. ft. Apply to actively growing turf in a minimum of 1.5 gallon per 1,000 sq. ft. of spray solution. 2 x 2.5 gallons/case or 30 gallon drums**



CAL-10 (Calcium nitrate) \$ 48.00 per gallon

Ignition Cal-10 is a liquid formulation of calcium nitrate designed to prevent and/or correct calcium deficiencies in all crops, ornamentals and turf. Cal-10 contains 1.09 pounds of calcium and .87 pounds of nitrate nitrogen per gallon. Cal -10 provides the nutrients necessary for increasing plant vigor, cell wall formation, and stimulating root and leaf formation. **RATE: 5-24 oz./1000 sq. ft. 2 x 2.5 gallons/case**



UPLIFT MICRONUTRIENTS \$ 48.50 per gallon

Uplift is a specialty micronutrient formulation designed to enhance crop yields and increase resistance to environmental stress factors. Foliar applications can assist in rapidly correcting nutrient deficiencies and increasing crop yields. It's comprehensive micronutrient package complexed with an organic acid allows for enhanced absorption and utilization. Uplift is combined with an autolyzed yeast extract full of amino acids, which elicits a systemic acquired resistance within the plant increasing stress resistance and production. Uplift contains Mg, Mn, Fe, Zn, Mo, and B with fulvic acid and humic acid added to enhance nutrient uptake. **RATE: 3-6 oz./1000 sq. ft. as needed for maintenance. For deficiencies, apply 8-12 oz./1000 sq. ft. 2 x 2.5 gallons/case**



BIOSTIMULANTS & MICRONUTRIENTS!

MAIN EVENT DRY IRON (Chelated Iron) \$ 230.00 per 30 lb. case

Main Event is a 6-0-0, non-staining, chelated iron for use on greens, tees, fairways and ornamentals. It contains 10% Fe, 8% Sulfur, 2% Mn 1% Mg, and .5% Zn. Main Event is derived from both EDTA and EDDFA iron chelates. Color response should last 14-21 days at which time another application should be made. **RATE: 3-9 lbs./acre for turf or 3-9 lbs./100 gallons of solution for ornamentals 10 x 3 lb. bags/case**



MAIN EVENT DRY MN (Chelated Micronutrients) \$ 230.00 per 30 lb case

Main Event is a 6-0-0, non-staining, chelated micronutrients for use on greens, tees, fairways and ornamentals. It contains 10% Mn, 8% Sulfur, 2% Fe 1% Mg, and .5% Zn. Main Event is derived from both EDTA and EDDFA iron chelates. Color response should last 14-21 days at which time another application should be made. **RATE: 3-9 lbs./acre for turf or 3-9 lbs./100 gallons of solution for ornamentals. 10 x 3 lb. bags/case**



PROACTIN EX (Amino Acids) \$ 134.00 per gallon

ProactinEX provides a cost-effective method for treating turf with a highly-concentrated blend of nitrogen in the form of select L-form amino acids, B-complex vitamins, antioxidants, etc. in a patented biostimulant formulation (Express Technology) that provides for ready uptake. At a 40% active ingredient concentration and a low application cost, turf managers can now afford to treat all of their turf, while customizing their nutritional programs with a highly effective product. **RATE: 16-32 oz./acre every 28 days 2 x 2.5 gallons/case**



RADIATE (Indolebutyric acid + Cytokinin) EPA REG #34704-909 \$ 180.00 per gallon ***CLOSEOUT PRICE

Radiate is a plant growth regulator with a patented formulation of Indole-3-butyric acid (IBA) and Kinetin. This patented formulation helps crops develop longer, healthier, stronger roots to improve nutrient uptake, stress resistance and plant health. In many soil types or application systems, the root force of Radiate can enhance yields and crop quality. It reduces transplant shock and promotes shoot and root growth. **RATE: 2.0 oz./acre 4 x 1 gallons/case**



WORM POWER TURF (vermicompost extract) \$ 37.00 per gallon

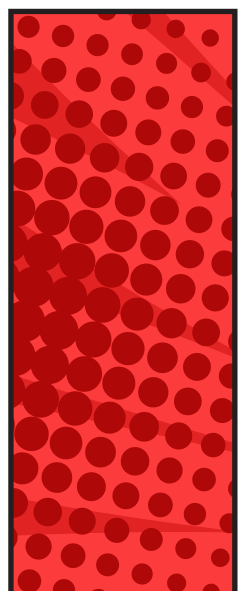
Worm Power Turf is a vermicompost extract produced in an environment tightly controlled from end to end. It strengthens the physical, and biological aspects of the soil around a plant's roots zone. OMRI listed and CDFA certified, Worm Power Turf improves soil health, and the health, vigor and strength of your plants. It works by providing enhanced availability of plant nutrients, increases water-holding capacity of the soil, reducing irrigation frequency and increasing stress tolerance during harsh conditions. It makes nutrient delivery more efficient over an extended period and delivers robust and diverse microbial populations. **RATE: Worm Power Turf can be applied to all ornamental plants, trees, turf, lawns, landscape shrubs, and flowers.**



Turf Application Rate: Greens, tees, fairways, lawns and sports turf, apply Worm Power Turf as a soil spray at 8 oz./1000 sq. ft. in 2 gallons of water (25 L/ha in 800 L) at 15 day intervals or 16 oz./1000 sq. ft. in 2 gallons of water (50 L/ha in 800 L) at 30 day intervals. For best results, Worm Power Turf requires season long application programs.

Thatch Reduction Rate: To aid in thatch reduction, apply Worm Power Turf as a soil spray at 16 oz./1000 sq. ft. in 2 gallons of water at 30 day intervals. For best results, Worm Power Turf requires season long application programs.

Ornamental Application: Apply Worm Power Turf as a foliar spray at 1 oz./gallon weekly throughout the growing season. 2 x 2.5 gallons/case, 55 gallon drums, 275 gallon tote





**WHAT'S
LEFT?**

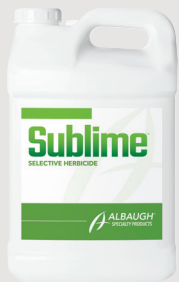
INNOVATIVE SOLUTIONS FOR GREEN INDUSTRY PROFESSIONALS.

THREE GROUNDBREAKING HERBICIDES THAT PROVIDE DEPENDABLE POWER AND CONSISTENT VALUE.



QUINTESSENTIAL®

Unique, patent-pending formulation powered by H-Value™ Technology, a proprietary performance additive that increases efficacy. Get unrivaled performance in conditions that limit absorption - like untimely rains or irrigation - and improved crabgrass control, particularly in the challenging 3-5 tiller stage.



SUBLIME™

The one-of-a-kind, three-way power of Sublime gives you innovative, true broad-spectrum control. Its balanced blend of triclopyr, dicamba, and mesotrione delivers unsurpassed control of broadleaf weeds, from perennials to woody species as well as certain grassy weeds.



SURMISE® SPEEDPRO™ XT

Another innovation in three-way control, Surmise SpeedPro XT combines the broad-spectrum power of glufosinate, the enhanced speed of pelargonic acid, and the potent residual of imazethapyr. Get quick knockdown and superb non-selective control of both annual and perennial weeds for 90+ days.



FOR MORE ABOUT OUR COMPLETE LINE OF PROVEN PRODUCTS, VISIT ALBAUGHSPECIALTY.COM.



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ACCUPRO 2000 ROTARY SPREADER
\$ 690.00 each

Accupro 2000 push spreader features large pneumatic tires, heavy plastic hopper, and heavy duty welded frame. 14 ft. pattern allows you great control. Price includes a spreader cover.



ACCUPRO LCO 1000 ROTARY SPREADER
\$ 690.00 each

Designed and priced specifically for the LCO market, the LCO-1000 truly represents the new industry standard in lawn care spreaders. Durable, stainless steel frame, includes hopper cover. The 21-inch wheel base is wider than most, providing added stability.



ACCUPRO SR 2000 ROTARY SPREADER
\$ 905.00 each

The stainless steel version of the Accupro features large pneumatic tires, heavy plastic hopper, heavy duty stainless steel frame. 14 ft. pattern allows you great control. Comes with a side deflector and spreader cover.



EARTHWAY EARTHSHAKER HAND SPREADER
\$ 35.00 each

Hand-held spreader w/dial for spreading seed, salt, fertilizer and ice melt. Simply pour your material from a larger bag into the screw top container and spread as much as you like. Holds up to 80 oz. and has multiple adjustable openings for various materials. The Earthshaker has an ergonomic handle and stores easily.



FIELD KING PROMAX PUMP ZERO, BATTERY POWERED SPRAYER - 2 GALLON
\$ 75.00 each

The Field King Promax Pump Zero Sprayer sprays up to 12 full t per charge. It's battery-powered compressor keeps pressure constant between 14-21 psi for consistent application. Professional-grade shut-off with comfortable grip; lock-on feature; and easy-to-clean, in-line filter. Pressure release valve allows you to safely remove internal pressure prior to opening the sprayer. Integrated base reduces tipping and includes built-in wand storage to protect the nozzle. Includes four nozzles and a battery charger. It works with liquids and wettable powders. Made in the USA with global components.



GANDY 36" DROP SPREADER
\$ 810.00 each

36" drop spreader with push-handle and 13" pneumatic wheels. Features a positive shut-off lever, adjustable variable-rate stainless steel bottom/slide, steel tri-bar rotor for internal agitation, spread plate, 13-inch pneumatic wheels and porous oil-impregnated bearings. Used to apply a variety of seeds, granular chemicals, fungicides, fumigants and fertilizers



PRIZELAWN 70 LB. STAINLESS STEEL BROADCAST SPREADER
\$ 490.00

The fourth generation version of the commercial broadcast spreader offers a new ergonomic stainless steel frame with reduced assembly. Upgrades include Bigfoot tires and larger diameter axle, handle grab bar. It's single port design is familiar and dependable and it's "bag and a half" capacity is perfect for most jobs.



SPYKER PRO-SERIES COMMERCIAL TOW SPREADER
\$ 490.00

Spyker's commercial tow spreader combines high capacity hopper with high efficiency. Designed specifically for use on large lawn, commercial properties, golf courses and sports fields, the 175 lb. provides ample capacity for taking on the big jobs. The extended on-off lever allows the operator to control the flow of the material, while remaining seated when using a lawn/garden tractor. The large-hopper tow spreader is productive, versatile, and easy to use. With all the features of the Pro-Series, Spyker tow-behind broadcast spreaders deliver incredible performance at a very reasonable price.



WESSOL CYCLONE 3 BATTERY-POWERED BACKPACK SPRAYER
\$ 275.00 each

Now introducing the 4-Gallon Cyclone Series 3 Sprayer! With a 25-ft spray distance, this sprayer introduces design updates that significantly improve your spraying experience. By taking our customers feedback, we've implemented various tank advancements and brand new nozzle lineups. It has a detachable hose, sealed inner electronics, improved serviceability and updated QC nozzles. The Cyclone 3 is a premier choice in pest control and lawncare industries.



NEW PRODUCT!

WESSOL STORM 2.5 Variable Pressure 5-Position Battery Backpack Sprayer
\$ 240.00 each

Featuring the new click-in-place knob, the Storm 2.5 includes all the best updates to the Pro-Series line. Notable for its compact 2.5-gallon size, this sprayer allows you to easily maneuver in smaller spaces while retaining spraying power. The Storm is a pressure washer-style spray gun with quick-connect attachments. It has a 25-foot spray distance with up to 2.5 hour spray time. Comes with a rechargeable 18V/2.6Ah Li-Ion battery and the ComfortStraps backpack system.

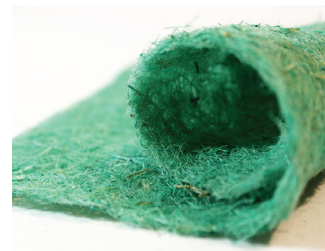


EROSION CONTROL BLANKETS!

FUTERRA F4 NETLESS EROSION CONTROL BLANKET

\$ 90.00 per roll, natural

Futerra Netless is a patented, lightweight, non-woven erosion control and vegetation blanket comprised of wood fiber. The new netless product utilizes a special process of thermally bonding wood and man-made fibers. Futerra Netless completely degrades on-site as grass grows through the blanket fibers. Futerra is recommended for covering difficult or critical seeded areas requiring temporary erosion and sediment control until vegetation is established. Futerra Netless is capable of absorbing and holding more than nine times its weight in water thereby creating a moisture reservoir that ensures improved germination.



	Futerra	Excelsior	Straw Mat
Germination Rate	85%	74%	55%
Water Holding Cap	800%	237%	225%

Futerra blankets are 50% lighter than Excelsior, which makes them alot easier to install.

OUTSTANDING EROSION CONTROL

Rainfall tests found Futerra to be far superior in reducing erosion, allowing less than one pound of sediment per hour to wash away.

Futerra	0.94 lbs. per hour
Excelsior	19.47 lbs. per hour
Straw Mat	24.47 lbs. per hour

Futerra F4 NETLESS is available in: 78" x 90' = 65 sq. yards

TURF COVERS & STAPLES!

EVERGREEN TURF COVERS

A turf cover that provides outstanding protection of greens, tees, fairway and general turf areas. Evergreen Turf Covers are manufactured in North America and proven effective since 1985. They are ideal for winter protection or new construction by allowing air and moisture to move through while holding the temperature in. Available in 3 different construction warranty grades: 12 year (radiant), 10 year (Evergreen) and 7 year (EVS) materials.

Stock sizes are available in the dimensions below:

EVERGREEN	60 x 90	10 Year	\$1,780
EVERGREEN	70 x 90	10 Year	\$2,130
EVERGREEN	80 x 110	10 Year	\$3,100
EVERGREEN	60 x 90	7 Year	\$1,450
EVERGREEN	70 x 90	7 Year	\$1,620
EVERGREEN	80 x 110	7 Year	\$2,300

Custom sizes are available with one dimension of the cover size being divisible by 10 ft.

EVERGREEN	Custom Sizes	10 Year	CALL FOR DETAILS
EVS	Custom Sizes	7 Year	CALL FOR DETAILS



TURF STAPLES - 6 INCH

\$ 85.00 per box

Standard 6" sod staples, 1000 per box, can be used for sod or turf covers

TURF STAPLES - 4 INCH

\$ 65.00 per box

Standard 4" sod staples, 500 per box, 8 gauge, can be used for sod or turf covers

EVERGREEN TURF STAPLES, PINK-COLORED

\$ 415.00 per box

Standard turf staples colored in fluorescent pink for easy visibility and removal. 1000 per box, great for use on greens covers.

PIGMENTS & COLORANTS!

FOURSOME PIGMENT

\$ 189.00 per gallon

Foursome Turf Pigment is a unique formulation pigment additive designed to enhance and extend the aesthetic appearance of the turf site following a pesticide application and for use as a spray pattern indicator. Foursome Turf Pigment helps promote a uniform application of the pesticide, producing a more consistent turf response to the activity of the applied plant protectant. **RATE For optimal performance, use from 15-20 oz./acre of turf with 16 oz. suggested as the initial rate. 4 x 1 gallons/case**



GREENPIG (Phthalocyanine)

\$ 188.00 per gallon

GreenPIG is a premium pigment additive from Grigg Brothers and is specifically formulated for golf course and sports turf facilities to enhance and extend aesthetic turf appearances. Noticeable effects include better color and quality – of both actively growing and dormant turf-grasses. **SEMI-DORMANT RATE: 14-16 oz./acre**
ACTIVELY GROWING RATE: 10-12 oz./acre 4 x 1 gallons/case



GREEN LAWNGER (Kaolin)

\$ 120.00 per gallon

Green Lawnger turf colorant restores natural-looking green color to dormant and discolored turf, and also provides divot mix sand with green color to blend with turf. Green Lawnger's exclusive ColorLock technology keeps color on the leaf blade longer, and prevents color from fading to an undesirable blue shade. It's ideal for all turf varieties in all growing regions, and lasts up to 120 days.

DORMANT FALL RATE: Dilute one gallon Green Lawnger with 7-9 gallons water. For a darker color, reduce volume of water.

NON-DORMANT SUMMER RATE: Dilute one gallon with 15-20 gallons water. 2 x 2.5 gallons/case



SOLAROUS CHROMATIC PLANT ENHANCER (Phthalocyanine)

\$ 152.00 per gallon

Solarous fuses a blend of chromatic reflective ingredients and innovative surfactant systems to increase coverage and adhesion on the plant. As a chromatic plant enhancer, it combines these unique ingredients to give your surfaces a distinct appearance and protect turf health by reflecting UV radiation. The unique green color ties in well with natural turf appearance. For best results you must shake the product before applying. **RATE: 0.75 ounces/1000 sq. ft. in a minimum of 50 gallons of water per acre 4 x 1 gallons/case**



ICE MELT! BRRRRRR.....

THAW MASTER

\$ 12.60 bag

Call for pallet pricing

Thaw Master offers a fast-sustaining, melting action without the premium price. Thaw Master utilizes calcium chloride, magnesium chloride and AMC to quickly form an ice melting brine. It's the toughest industrial ice melter in its class! Thaw Master is a highly effective blend that delivers performance and affordability. It's dyed green for easy application and melts to -10 F.
49 x 50 lb. bags/pallet



POWER THAW

\$ 12.00 per bag

Call for pallet pricing

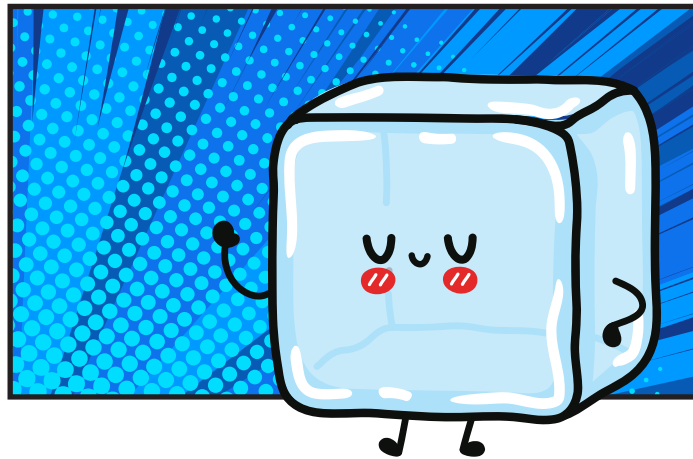
Power Thaw is a powerful ice melter specifically formulated for high performance melting in the industrial and commercial markets. It's the most powerful blended ice melt in the industrial market. Power Thaw works when temperatures drop to extreme lows; melts to -20 F. It's dyed blue for easy application, high visibility and proper placement.
49 x 50 lb. bags/pallet



PELADOW

\$ 18.00 per bag

Peladow calcium chloride out-performs other ice formulations in all winter conditions. With its fast-melting action and cold-temperature performance, Peladow calcium chloride is easily distinguished from other ice melters because it contains more than 90% calcium chloride, the most effective material for melting ice and snow. It melts ice 2-5 times faster than other ice-melt materials. Peladow absorbs moisture and generates heat to speed melting. It performs in a wider range of winter temperatures, even extreme cold. **56 x 50 lb. bags/pallet**



STICKERS, DEFOAMERS, CLEANERS!

BOND MAX STICKER Spreader Sticker + Deposition Aid **\$ 69.00 per gallon**

Bond Max combines the adherence ability of a latex polymer with super coverage of non-ionic surfactants. Bond Max promotes rapid spreading for a uniform protective film across the plant surface, thereby enhancing the effectiveness of pesticide sprays. Enhances droplet deposition and rainfastness in minutes, thereby reducing the risk of pesticide runoff from the plant surface. Increases the effectiveness of fungicidal, insecticidal and herbicide sprays. **RATE: 20-32 oz./100 gallons**
4 x 1 gallons per case



ERASE TANK CLEANER **\$ 28.00 per quart** **\$ 56.00 per gallon**

Erase is a powerful spray system cleaner that exceeds the capabilities of ordinary tank cleaners. Erase emulsifies oily residues in sprayer lines and hoses while elevating rinsate pH to degrade vulnerable crop protection products. When used in conjunction with proper sprayer cleaning technique, Erase ensures more thorough clean-outs and reduced risk of cross contamination that leads to crop injury complaints, yield loss and a damaged reputation as a professional applicator. **RATE: 1 quart/50 gallons of tank cleaner**
12 x 1 quarts/case, 4 x 1 gallons



BORDER 2.0 Drift Retardant **\$ 69.00 per gallon**

Border 2.0 is a concentrated liquid adjuvant for spray droplet management. It enhances the performance of spray applications by modifying the physical characteristics of the spray droplet, improving droplet retention while reducing off-target movement. Border 2.0 is a part of the Total Spray Droplet Management portfolio of products that improve safety and efficacy of spray applications. **RATE: 2-4 pints/100 gallons**
2 x 2.5 gallons/case



IGNITION COVER-UP 90-10 Nonionic + Odor Reducer **\$ 43.00 per gallon in 2.5 gallons** **\$ 1250.00 per 30 gallon drum**

Ignition Cover-up Surfactant with odor reduction technology enhances the performance of a wide range of pesticides by thoroughly wetting the pest and spreading the active ingredient on the target surface. The odor reduction technology system significantly reduces and eliminates offensive pesticide odors of herbicides and various insecticides. **RATE : 1-2 pints/100 gallons**
2 x 2.5 gallons/case or 30 gallon drums



CHEM-STIK Non-Ionic Spreader Sticker **\$ 66.00 per gallon ***CLOSEOUT PRICE**

Chem-Stik is a non-ionic spreader sticker that maximizes leaf surface coverage of spray solutions, while providing wash-off protection from untimely rainfall. It increases wetting, adhesion and endurance of pesticide sprays. Chem-Stik won't gum up sprayers like ordinary spreaders and stickers. It utilizes low-use rates. **RATE: 4-8 oz./100 gallons**
4 x 1 gallons/case



IGNITION POWERSTIK 90-10 Nonionic Surfactant **\$ 25.00 per gallon in 1 gallon** **\$ 28.00 per gallon in 2.5 gallons** **\$ 725.00 per 30 gallon drum** **\$ 6600.00 per 250 gallon tote**

Ignition Powerstik is an economical, 90% active, low-foaming, non-ionic activator adjuvant that enhances the performance of a wide range of pesticides by thoroughly wetting pesticide and spreading the active ingredient on the target surface. Powerstik slows the drying time to improve penetration through a waxy or weather-hardened cuticle. A defoaming agent in the formulation eases mixing procedures and speeds load time. **RATE: 1-4 pints/100 gallons of spray solution**
4 x 1 gallons, 2 x 2.5 gallons/case, 30 gallon drums or 250 gallon totes



DELUX (Nonionic surfactant + Ammonium sulfate) **\$ 32.00 per gallon**

Delux is a biodegradable activator surfactant and ammonium sulfate premix enhances performance of glyphosate and certain post-emergence herbicides. It enhances phenoxy control of tough broadleaves like dandelions and thistles. It provides quick and superior leaf surface coverage for maximum herbicide absorption. Delux buffers spray solution and prevents premature pesticide breakdown from alkaline hydrolysis. **RATE: 4-5 quarts/100 gallons of spray solution**
2 x 2.5 gallons/case



IGNITION TAKEDOWN DEFOAMER Spray Tank Defoamer **\$ 27.00 per quart**

Takedown anti-foaming agent eliminates unwanted foam in spray applications involving recirculating sprayers and other high-agitation equipment to help ensure even distribution of pest control product applications. Chemicals in the tank will remain active and unaffected by Takedown antifoaming agent, and the high-quality formulation will not clog spray equipment nozzles. **RATE: 1-4 oz./100 gallons**
12 x 1 quarts/case



OMG!

INDICATE 5

Non-ionic surfactant, pH acidifier
\$ 90.00 per gallon

Indicate 5 is multi-functional adjuvant and water conditioner that counters the detrimental effects of high pH and hard water on sensitive pesticides. Indicate 5 adjusts water pH and contains a patented, built-in pH indicator that turns the spray water pink as soon as the optimum level of 4.5-5.5 pH is reached. It works by acidifying alkaline water and neutralizing salts present in hard water which can impact spray efficacy. **RATE: RTU, pour in tank mix until tank color turns pink which then indicates a tank balanced at 4.5 pH 4 x 1 gallons per case**



MICROYL

Metholated seed oil
\$ 65.00 per gallon

Microyl is an activator adjuvant that provides superior performance and improved turfgrass safety at lower use rates than ordinary crop oil concentrates. Microyl mixes easily and disperses in cold water. It creates a stable micro-emulsion and won't leave oily residues in the tank. A must use with Drive XLR8. **RATE: 3-4 pints/100 gallons of spray solution 6 x 1 gallons/case**



INFLUENCE

Penetrant, Acidifier, Deposition Aid and Drift Control
\$ 43.00 per gallon

Influence non-ionic penetrating surfactant that reduces off-target spray drift and reduces spray water pH. Influence is a 4-product combo low-foaming surfactant that will not cause foam problems in the spray tank. Influence provides more uniform coverage of spray solutions and aids in penetration. Good choice for herbicides, fungicides, insecticides or aquatic products. A must use with Clipper or Diquat in ponds and lakes. **RATE: 1-4 pints/100 gallons 4 x 1 gallons or 2 x 2.5 gallons/case**



NEW BALANCE

Non-ionic surfactant, pH acidifier
\$ 46.00 per gallon

New Balance is a citric-based, pH acidifier, buffer and non-ionic surfactant that modifies spray solution pH when breakdown from alkaline hydrolysis can reduce insecticide and fungicide performance. It increases the spreading and coverage of a spray solution on leaf surfaces. New Balance lowers the pH of the spray water to prevent alkaline hydrolysis. It is formulated with antifoam to prevent foaming. **RATE: 8-16 oz./100 gallons 6 x 1 gallons/case**



LI 700

Penetrant, acidifier, deposition aid and drift control
\$ 52.00 per gallon

LI 700 is a soy-oil derived, non-ionic penetrating surfactant that reduces off-target spray drift and reduces spray water pH. Unique formulation technology and quality ingredients separate LI 700 from the imitators. LI 700 is a 4-product combo low-foaming surfactant that will not cause foam problems in the spray tank. LI 700 provides more uniform coverage of spray solutions and aids in penetration. Good choice for herbicides, fungicides, insecticides or aquatic products. **RATE: 1-4 pints/100 gallons 2 x 2.5 gallons per case**



PENTRA-BARK

\$ 52.00 per quart

Pentra-Bark penetrating surfactant will take water-soluble insecticide, fungicide, plant growth regulators or fertilizer into the vascular system of the tree for translocation into foliage or roots. It eliminates the need to spray foliage, soil drench, bark inject or pressure inject into soil. Time to treat a tree is considerably shorter with Pentra-Bark. Safety concerns are considerably lessened with application only to tree trunk. **RATE: 4-64 oz./100 gallons of spray solution. 12 x 1 quarts per case**



TACTIC

Spreader sticker, surfactant, deposition aid
\$ 84.00 per gallon

Tactic combines the spreading properties of an organo-silicone surfactant with a quality sticker for the best possible droplet retention on the leaf surface. Tactic sticks insecticides and fungicides to the leaf surface, preventing pesticide loss due to droplet shatter or bounce, and protects from rain and irrigation wash-off. Good product to add to any Glyphosate tank mix. **RATE: 16-24 oz./100 gallons 4 x 1 gallons/case**



LIBERATE

Penetrant, deposition aid and drift control
\$ 51.00 per gallon

Liberate is an uptake enhancing surfactant blend. It is designed for use with pesticides that recommend a non-ionic surfactant, and works especially well with systemic chemistry, reducing driftable fines. Liberate provides more uniform coverage of spray solutions and aids in penetration. It improves deposition and retards drift by producing a more uniform spray pattern. **RATE: 0.5-4.0 pints/100 gallons 2 x 2.5 gallons/case**



MAUGET TREE INJECTION!

ABACIDE 2 (Abamectin)

\$ 155.00 per 24-pack

Abacide 2 is a concentrated abamectin for use on forest, Christmas trees, seed cone nurseries and ornamental trees. Because it is both xylem and phloem mobile, it provides superior management options for difficult to control insects with a single application. It can be applied in spring or summer as a preventative treatment prior to the emergence of insects or as a curative treatment after they are observed. A single application typically provides season long control. **RATE: See label for details. 24 X 2 ml/pack**

ABASOL (Debacarb + Carbendazim + Abamectin)

\$ 200.00 per 24-pack

Abasol combines Abacide 2 with Fungisol. This simple to apply unique tree care treatment is an exclusive formulation that has been developed and offered only by Mauget™ to control both insects and diseases with one simple, easy to apply micro-injection saving both time and expense. Abasol provides disease suppression of over thirty pathogens and control of many different insects. **RATE: See label for details. 24 X 4 ml/pack**



ARBORFOS (Phosphorous acid)

\$ 148.00 per 24-pack

Arborfos™ is a phosphite-formulated fungicide that inhibits fungal growth through stimulation of the plant's own natural defense systems. Research indicates that it may also elicit a type of systemic acquired resistance response. Although it imparts no actual phosphorous nutrition, Arborfos-treated trees tend to develop healthier leaves, roots and stems as it reduces disease pressure. It is registered for ornamental, forest and certain crop trees to manage many diseases including root diseases. **RATE: See label for details. 24 X 7.5 ml/pack**



FUNGISOL (Debacarb + Carbendazim)

\$ 171.00 per 24-pack

Fungisol is a proprietary fungicide that was developed by Mauget for tree micro-injection application. It is effective on more than thirty diseases on a large variety of conifer, deciduous, and palms trees. Fungisol has demonstrated activity on soil borne wilt pathogens not effectively controlled with traditional fungicide drenches. **RATE: See label for details. 24 X 4 ml/pack**



IMICIDE (Imidacloprid)

\$ 174.00 per 24-pack

Imicide is Mauget's imidacloprid-based insecticide. It provides effective, preventative control for many different insects including the Emerald Ash Borer. Since 2000, Imicide has been used extensively by the USDA, state and city governments in prevention and eradication programs for Asian and Citrus Longhorned Beetles, with over 500,000 trees successfully protected. It has exceptionally long residual control and very broad-spectrum insect control. **RATE: See label for details. 24 X 2 ml/pack**



IMISOL (Debacarb + Carbendazim + Imidacloprid)

\$ 168.00 per 24-pack

Imisol combines Fungisol with Imicide. This simple to apply material controls both diseases and insects with one micro-injection application saving both time and expense. It may be used on trees with a complex of both insects and diseases, that can cause significant damage to a tree. In some cases, insects are vectors of diseases such as elm bark beetle in Dutch elm disease. Imisol provides disease suppression of over thirty pathogens and control of more than twenty insects. **RATE: See label for details. 24 X 4 ml/pack**



INJECT-A-MIN IRON/ZINC (NPK 1-0-2)

\$ 125.00 per 24-pack

Inject-a-Min Iron/Zinc is a micro-nutrient formulation containing water-soluble iron and zinc sulfates including sulfur. It provides micronutrient availability to tree species growing in non-native alkaline soils. Because the micronutrients are injected directly into the tree's vascular system, they are not affected by the soil pH. The benefits of it can be evident for 1-5 years compared to adjacent untreated trees. It is helpful in correcting iron and or zinc deficiencies in many species of trees including Pin Oaks. **RATE: See label for details. 24 X 6 ml/pack**



INJECT-A-MIN MANGANESE (NPK 1-0-1)

\$ 124.00 per 24-pack

Inject-a-Min Manganese is a water based micro-nutrient fertilizer containing manganese sulfate. It provides micronutrient availability to trees growing in non-native alkaline soils. Because the nutrients are microinjected directly into the tree's vascular system, they are not affected by the soil pH. The benefits of it can be evident for 1-5 years compared to adjacent untreated trees. It is helpful in correcting manganese deficiencies in many species of trees including palms, maples, citrus and other trees. **RATE: See label for details. 24 X 6 ml/pack**



MYCOJECT ULTRA (Oxytetracycline Hydrochloride)

\$ 165.00 per 24-pack

Mycobject Ultra is a microinjected, antibiotic with improved solubility using Oxytetracycline Hydrochloride. It is one of a small number of antibiotics available to tree care professionals. It provides systemic aid in the suppression of bacterial diseases in ash, elm, oak, palm, peach, pear, sweet gum, sycamore and non-bearing pecan and plum trees. **RATE: See label for details. 24 X 6 ml/pack**



MAUGET TREE INJECTION!

STEMIX PLUS (NPK 1-1-1)

\$ 119.00 per 24-pack

Stemix Plus is a water-based fertilizer formulation of chelated minerals with a very low salt index and elevated magnesium and calcium. It is designed to stimulate both the tree's foliar and root growth. It can correct stress caused by environmental conditions, nutritional deficiencies, root damage, frost protection, frost damage, insect damage and more. It is particularly useful in trees where deficiencies cannot be successfully corrected by foliage or soil feeding, and in areas where leaching into groundwater is a concern. **RATE:** See label for details. 24 X 6 ml/pack



TEBUJECT 16 (Tebuconazole)

\$ 205.00 per 24-pack

Tebuject 16 is a Triazole fungicide that inhibits sterols synthesis necessary for fungal development. It provides added control of Oak Wilt in addition to leaf diseases such as Elm, Ash, Maple, and Sycamore anthracnose. It is used best in a preventative disease management program although it can also provide suppression of some existing infections until trees regain additional vigor. **RATE:** See label for details. 24 X 6 ml/pack



**NEW
PRODUCT!**

UNDERHILL IRRIGATION!

Underhill International Corporation has been a familiar name to irrigation industry professionals since 1980. Headquartered in Irvine, California, USA, the company is an innovative manufacturer of water-saving irrigation products for golf courses, sports fields, commercial and residential installations. As a new distributor in 2023, D & K Products now carries a selection of hoses, nozzles and quick couplers. The Underhill product catalog is very extensive; please contact us to help you with your product needs. We carry a small selection of products in-house, but special orders are possible.

PROLINE FEATHERWEIGHT HOSE 3/4" DIAMETER, 200 PSI WP, 800 PSI BURST

\$ 230.00 per 100 ft hose

The ProLine Featherweight hose is extremely lightweight: a 100 foot hose weighs only 9 lbs. It has a tough outer polyester fabric stands up to wear and tear. The outer springs prevent bending and kicking at connections.



ULTRAMAX CLEAR HOSE 1" DIAMETER, 150 PSI WP, 600 PSI BURST

**\$ 215.00 per 50 ft hose
\$ 355.00 per 100 ft hose**

The UltraMax Clear hose is lightweight and economical, with a thick, durable outer wall. It's ideal for light to medium commercial duty. It's available in 3/4" and 1" diameter.



ULTRAMAX FEATHERWEIGHT HOSE 1" DIAMETER, 300 PSI WP, 1200 PSI BURST

**\$ 290.00 per 50 ft hose
\$ 450.00 per 100 ft hose
\$ 540.00 per 125 ft hose**

The UltraMax Featherweight hose is extremely lightweight: a 100 foot hose weighs only 15 lbs. The ultra-smooth outer polyester fabric slides over turf without scuffing. The UltraMax is kink-resistant.



MAGNUM ULTRAMAX PREMIUM PRO FULL THROTTLE NOZZLE

**\$ 75.00 per 3/4" nozzle
\$ 75.00 per 1" nozzle**

The Magnum UltraMax Premium Pro Full Throttle nozzle delivers single variable flow with steady, maximum volume fog, jets stream and fan patterns. Nozzles and valves are rated at 600 PSI working pressure.



ULTRAMAX BLUE HOSE 1" DIAMETER, 300 PSI WP, 1200 PSI BURST

**\$ 245.00 per 50 ft hose
\$ 430.00 per 100 ft hose**

The UltraMax Blue hose is up to 45% lighter than comparable commercial hoses. The UltraMax is soft and flexible and won't scuff greens. It's available in 3/4" and 1" diameter.



MAGNUM ULTRAMAX PREMIUM PLUS TURBO SHIFT NOZZLE

**\$ 135.00 per 3/4" nozzle
\$ 135.00 per 1" nozzle**

Magnum UltraMax Premium Plus Turf Shift nozzles provide firefighter-quality for professionals. These variable flow, multi-function nozzles are virtually indestructible and leak proof. The innovative Turf Shift models provide two distinct GPM ranges. The outstanding distribution patterns of all Magnum UltraMax nozzles make them excel in high demand areas like greens/tees, infield conditioning and equipment and stadium washdowns.



MULCH!

SEED AIDE COVERGROW MULCH PELLETS

\$ 40.00 per 40 lb bag (48 bags/pallet)

Seed Aide CoverGrow is an advanced technology granular mulch made from recycled wood and cellulose fibers. Once applied to a seeded area and activated by water, the granules quickly expand and disperse to provide outstanding protection and water-holding performance right where it's needed. Whether you're spot-treating smaller bare spots or hydroseeding larger areas, CoverGrow is the easy and convenient way to establish vegetation.



HYDROSEEDING RATE: Strictly comply with manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines. Do not exceed maximum slope length of 35 feet (11 m) when slope gradients are steeper than 4H to 1V. Add 60 pounds (27 kg) per 100 gallons (379 L) of water along, with seed when hydroseeding; confirm loading rates with equipment manufacturer.

BROADCAST SPREADING RATE: Strictly comply with manufacturer's installation instructions and recommendations. Prepare or rake the soil, spread the seed and apply CoverGrow. Recommend 36" drop spreader with a fixed rate plate. You may also spread by hand for spot or patch seeding. Do not exceed maximum slope length of 25 feet (7.6 m) when slope gradients are steeper than 4H to 1V.

Flat to 5H:1V Slopes: 50 lb/1000 sq. ft. (22.7 kg/93 sq m) 5H:1V to 4H:1V Slopes: 75 lb/1000 sq. ft. (34 kg/93 sq m)

LAST, BUT NOT LEAST.....

CIVITAS TURF DEFENSE (Mineral oil)

EPA REG #69526-13

\$ 41.00 per gallon



Civitas Turf Defense is a two-part system intended to be used with Civitas Harmonizer. It provides a physical barrier that helps prevent fungi from entering the plant. In addition, Civitas Turf Defense works via Induced Systemic Resistance (ISR) which is a process that prepares the plant to respond faster and stronger to a potential fungal invasion. Benefits:

- Delivers improved performance under reduced irrigation conditions
- Provides proven disease control and can be incorporated into current IPM programs
- Pre-conditions the plant for upcoming stress
- Can improve recovery from fall aeration
- Can enhance spring-green-up and aeration recovery
- Increases resistance to wear/traffic
- Improves plant performance, while reducing inputs required to maintain acceptable course conditions, such as water and fertilizer.

RATE: 8-16 oz./1000 sq. ft. Mix 1 bottle of Harmonizer with each 5 gallon pail (included with purchase) 5 gallon pails

POSTING SIGNS

\$ 12.00 per bundle



Chemical application flags that read "Chemically Treated - keep off for 24 hrs." 50/bundle

PROFILE GREENS GRADE

\$ 22.00 per bag



Profile Greens Grade is an inorganic soil amendment proven on thousands of greens across the country to resist compaction, eliminate localized dry spot, promote drainage and facilitate healthy root systems that leave turf less prone to disease and other maintenance problems. A kiln-fired porous ceramic from a unique mineral deposit in Mississippi, PPC replaces peat in any sand-based root zone. PPC Greens Grade meets the specifications outlined in the USGA's recommendations for a method of putting green construction. **RATE:** 250-500 lbs./1000 sq. ft. 50 lb. bags, 40/pallet

TERREPLEX (Natural organic acid)

\$ 57.00 per gallon



Terreplex is a carbon-rich acidifier derived from the lignin in trees. It is a natural, organic polymer, fully biodegradable, non-phytotoxic, non-corrosive, and economical for use on turf. Terreplex contains over 3 lbs. of carbon per gallon – more than any other leading product – providing the energy source needed to stimulate soil microbial activity. Users can expect to see enhanced turf nutritional program efficiency, increased cation exchange capacity, and improved soil structure. **RATE:** 64 oz./acre 5 gallon pail

TRUE GRIT LAPPING COMPOUND

\$ 125.00 per pail



True Grit Lapping Compound sharpens bedknives and reels to provide a sharp, clean cut and smoother playing surface, with less bruising to the grass. It minimizes warping and corrosion to the bedknife. ml is environmentally safe and easily washed off with a garden hose after each use. Available in 50, 80, 120, and 180 grit sizes. **RATE:** Ready to use 25 lb. pails

TURF MAX PIGMENT REMOVER

\$ 33.00 per quart *CLOSEOUT PRICE**



Turf Max Pigment Remover will remove most stubborn stains and blemishes from your equipment and accessories, including pigments and dyes. Turf Max Pigment Remover is ready to use: just spray, wait 3-5 minutes and pressure wash away. It's that simple. Try some today and get your equipment and accessories looking as good as the day you bought them. Buy Turf Max Pigment Remover in ready-to-use spray bottles or concentrate. **RATE:** Ready to use spray on bottle 12 x 1 quarts/case



**SPREADER
SETTINGS**

SPREADER SETTINGS!

Product	SGN	Rate	AccuPro 2000	Lesco 020093	Lesco 705698	Scotts R8A	Lely W	Vicon 03
0-0-25 Contec DG	75	2 lbs	I 1/4	C	8	G		
0-0-25 Contec DG	75	4 lbs	K	D1/2	11	J		
0-0-44 100% PCSOP	100	2.27	I 1/4	C 1/2	9	H		
0-0-44 100% PCSOP	100	4.55	K 3/4	D 3/4	11 1/2	J 1/4		
0-0-7 Acelepryn	215	3.44	L 1/4	E	12	K 1/4	5 1/4	26
0-0-8 Acel/Dimension	150	3.44	K 1/2	E	12	K	5 1/4	22
10-3-10 .164 Dimension	100	3.5	K 1/2	D 1/2	11	K 1/2		
12-24-12 Siduron	215	3.3	L	E	12	K	5 1/2	27
12-24-12 Siduron	215	6.6	P	G 1/2	17	N 1/2	7 1/2	40
12-24-8 Contec DG	75	4.2	K 1/4	D 1/2	11	1 1/4		
12-28-12 Starter	220	3.5	L	E 1/2	13	K 1/4	5 1/2	24
12-3-12 Contec DG	75	2.5	I 1/2	C 1/2	9	H 1/4		
12-3-12 Contec DG	75	4.2	K 1/2	D 1/2	11	I 1/4		
13-0-26 Contec DG	75	1.9	I	C	8	G 1/2		
13-0-26 Contec DG	75	3.8	J 3/4	D	10	1 1/2		
13-0-5 .10 Dimension	215	4	L 1/2	F	14	K 3/4	6	30
13-0-5 .10 Dimension	215	5.5	N 1/2	G	16	M 1/2	7	36
13-2-13 AMS	100	2	I 1/4	C	8	H		
13-2-13 AMS	100	4	K 1/2	D 1/2	11	1 1/2		
14-14-14	215	3.67	K 3/4	F	14	I 3/4	5 1/2	34
14-14-14	215	8	M 3/4	J	22	L 1/2	7 3/4	48
14-28-10 MUTECH	100	1.8	H 1/2	C	8	G		
14-28-10 MUTECH	100	3.6	J 3/4	E	12	I		
14-7-14 Contec DG	75	3.57	J 3/4	D 1/2	11	I 3/4		
15-0-0 .10 Dimension	220	4	M	J 1/2		L	6 1/4	36
15-0-0 .10 Dimension	220	5.5	N 1/2	G	16	M 1/2	7	36
15-0-0 .10 Dimension	220	6	0	L		N	7	39
15-0-15 Contec DG	75	3.33	J 1/2	E	11	I		
15-0-15 Contec DG	75	6.66	M 1/4	F 1/2	15	K 1/4		
15-0-29 100% MUTECH	100	3.5	H 1/2	D	10	I 1/4		
15-0-5 .2 Merit	215	3.5	L 1/4	E 1/2	13	K 1/4	5 1/2	27
15-0-5 Acelepryn	215	3.44	L	E	12	K	5 1/2	26
16-0-8 Escalade	150	4	M	E 1/4	12 1/2	K 1/2	5 1/4	25
16-4-8 AMS	135	3.1	K 1/4	D	10	J 1/4	4 1/4	16
16-4-8 AMS	135	6.25	N 3/4	F 1/2	15	M 3/4	6	25

SPREADER SETTINGS!

Product	SGN	Rate	AccuPro 2000	Lesco 020093	Lesco 705698	Scotts R8A	Lely W	Vicon 03
17-0-0 .15 Dimension	215	4	L 1/2	F	14	K 3/4	6	30
17-0-4 .164 Dimension	215	4	L 1/2	F	14	K 3/4	6	30
17-0-4 .164 Dimension	215	5.5	N 1/2	G	16	M 1/2	7	36
18-0-4 .426 Barricade	215	4	M	E 1/4	12 1/2	L	6 1/4	35
18-0-6 .103 Dimension	215	4	L 1/2	F	14	K 3/4	6	30
18-0-6 .103 Dimension	215	5.5	N 1/2	G	16	M 1/2	7	36
18-0-7 Ignition	220	4	L 1/2	F	14	K 3/4	6	30
18-12-12 Starter	220	4	M	J 1/2		L	6 1/4	36
18-24-5 Contec DG	150	4.2	L 1/4	G	16	K 1/4	5 3/4	27
18-3-12 .164 Dimension	215	3.5	K 3/4	E	12	J 3/4	5	30
18-3-12 .164 Dimension	215	5.2	N 1/2	F	14	M 1/2	6 1/4	35
18-3-18 Contec DG	75	2.78	J	C 1/2	9	H 1/2		
18-3-18 Contec DG	75	5.5	L 1/2	E 1/2	13	J 3/4		
18-6-15 Nutralene	100	2.75 lbs	I 1/2			H 1/2	4	15
18-6-15 Nutralene	100	4 lbs	K			I 1/2	4 3/4	19
18-9-18 Contec DG	75	2.78 lbs	I 1/2	D 1/2	11	I		
18-9-18 Contec DG	75	5.56 lbs	L	G 1/2	17	K 1/2		
19-0-0 .125 Dimension	215	4	L 1/2	F	14	K 3/4	6	30
19-0-0 .125 Dimension	215	5.5	N 1/2	G	16	M 1/2	7	36
19-0-15 Contec DG	75	2.6	I 1/2	C 1/2	9	H 1/4		
19-0-15 Contec DG	75	5.3	L 1/4	E	12	J 1/4		
19-0-6 .103 Dimension	215	4	L 1/2	F	14	K 3/4	6	30
19-0-6 .103 Dimension	215	5.5	N 1/2	G	16	M 1/2	7	36
20-0-0 .2 Merit	220	3.5	L	E 1/2	13	K 1/4	5 1/2	24
20-0-16 Contec DG	150	2.5	J 3/4	E 1/2	13	I 1/2	4 1/4	14
20-0-16 Contec DG	150	5	N 1/2	I 1/2	21	L 1/2	6 1/2	24
21-0-20 100% Poly S	150	4.8	M 1/2	F	14	L 1/2	6 1/2	26
21-0-21 75% NSN	215	4.76	M 3/4	F 1/2	15	L 3/4	6 1/4	34
21-0-4 .2 Merit	215	3.5	L	E 1/2	13	K 1/4	5 1/2	24
21-0-4 .2 Merit	215	4.5	M	F 1/2	15	L 1/4	6	29
22-0-10 Contec DG	75	4.16	K 1/2	D 1/2	11	J		
22-0-10 Contec DG	75	8.33	N 3/4	G 1/2	17	M 3/4		
22-0-22 65% MUTECH	100	2.25	I 3/4	C 1/2	9	H		
22-0-22 65% MUTECH	100	4.5	K 3/4	D 1/2	11	J 1/4		

SPREADER SETTINGS!

Product	SGN	Rate	AccuPro 2000	Lesco 020093	Lesco 705698	Scotts R8A	Lely W	Vicon 03
22-0-3 Ignition	220	4	M	J 1/2		L	6 1/4	36
23-0-10 65% Poly S	150	4.3	L 1/2	G 1/2	17	J	6	29
24-0-10 Contec DG	150	4.16	M 1/4	E	12	K 3/4	5 3/4	27
24-0-4 .15 Dimension	220	4	M	J 1/2		L	6 1/4	36
24-5-10 Ignition	220	4	M	J 1/2		L	6 1/4	36
24-5-11 50% XCU	240	4.16	M	F	14	L	6 1/4	30
25-5-15 50% MUTECH	135	2	J 1/4	C 1/2	9	I	3 3/4	15
25-5-15 50% MUTECH	135	4	L 1/2	D 1/2	11	K 1/4	5	23
27-3-11 Extend	240	5.56	O 1/4	G	16	N	7 1/3	38
28-0-10 Ignition	220	4	M	J 1/2		L	6 1/4	36
28-0-3 Acel/Dimension	150	3.44	K 1/2	E	12	K	5 1/4	22
28-3-10 50% XCU	215	3.57	L 1/4	F	14	K	6	28
29-0-3 Ignition	220	3	K	H		K	3.75	30
29-0-3 Ignition	220	4	M	J 1/2		L	6 1/4	36
30-0-4 50% FORTIFY	215	3.4	L 1/4	E	12	K 1/4	5 3/4	28
33-0-5 100% NSN	215	3.03	L	E	12	K	5 1/2	26
44-0-0 Ignition	220	3	K	H		K	3.75	30
A-TEP MICROS	100	1.4	H 1/2	C 1/2	9	G 1/2	3 1/4	11
A-TEP MICROS	100	2.3	I 1/2	D	10	H 1/4	3 3/4	14
Black Gypsum DG	75	3	J	D 1/2	10	H 3/4		
Black Gypsum DG	75	6	L 3/4	F	14	K 3/4		
Black Gypsum DG	240	3	L	E	12	K 1/4	5 1/2	26
Black Gypsum DG	240	6	O 1/2	G 1/2	17	N 1/2	7 1/2	39
Gypsum DG	100	6	K			I 1/2		
Gypsum DG	100	12	I 3/4			K 1/4		
Humic DG	75	1	G 3/4	B 1/2	7	F 3/4		
Humic DG	75	2	H 3/4	C 1/4	8	G 3/4		
Humic DG	75	4	K 1/4	D 1/2	11	I 3/4		
Humic DG	240	1	J	D 1/2	10	H 1/2	4	16
Humic DG	240	2	K 1/2	E	12	J 3/4	5	24
Humic DG	240	4	M 1/4	G	16	K 3/4	6 1/2	33
SmartPhos 4-22-0	75	2.3	J	C 1/2	9	H 1/4		
SmartPhos 4-22-0	75	4.6	K 1/2	D 1/2	11	J 1/4		
Treflan DG Pro	150	1.8	J	C 1/4		H 3/4	4	15



**PESTICIDE
RECORDS**

Stay on top of root health

Introducing:



A first-of-its-kind solution to protect your roots.

At Envu, we know the key to healthy turf starts with the roots. That's where some of your most challenging threats take hold – from soilborne pathogens to nematodes. That's why we developed Resilia™ root health solution. It offers broad-spectrum control and is the first-ever all-in-one product that:



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Protects your roots from destructive soilborne pathogens for up to 21 days and most up to 28 days



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Course Name _____

Course Address _____

Date _____ Start Time _____ Stop Time _____

Applicator Name _____ Applicator Number _____

Applicator Name _____ Applicator Number _____

Applicator Name _____ Applicator Number _____

AREA TREATED

Total Square Footage / Acres _____ Greens Tees Fairways Rough Other _____

Target Pest _____

Product Category: Fungicide Herbicide Insecticide PGR Soil Surfactant

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Total Gallons Sprayed _____

Weather Conditions: Temp _____ Wind Speed _____ Wind Direction _____ Humidity _____

Comments _____

Restricted Use Pesticide: Chemical Name _____ EPA # _____

PESTICIDE RECORDS!

Course Name _____

Course Address _____

Date _____ Start Time _____ Stop Time _____

Applicator Name _____ Applicator Number _____

Applicator Name _____ Applicator Number _____

Applicator Name _____ Applicator Number _____

AREA TREATED

Total Square Footage / Acres _____ Greens Tees Fairways Rough Other _____

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Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

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Course Name _____

Course Address _____

Date _____ Start Time _____ Stop Time _____

Applicator Name _____ Applicator Number _____

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Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Total Gallons Sprayed _____

Weather Conditions: Temp _____ Wind Speed _____ Wind Direction _____ Humidity _____

Comments _____

Restricted Use Pesticide: Chemical Name _____ EPA # _____

PESTICIDE RECORDS!

Course Name _____

Course Address _____

Date _____ Start Time _____ Stop Time _____

Applicator Name _____ Applicator Number _____

Applicator Name _____ Applicator Number _____

Applicator Name _____ Applicator Number _____

AREA TREATED

Total Square Footage / Acres _____ Greens Tees Fairways Rough Other _____

Target Pest _____

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Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Product Name _____ Application Rate _____ Total Product Applied _____ EPA # _____

Total Gallons Sprayed _____

Weather Conditions: Temp _____ Wind Speed _____ Wind Direction _____ Humidity _____

Comments _____

Restricted Use Pesticide: Chemical Name _____ EPA # _____



APPLICATION FOR CREDIT
 (PLEASE COMPLETE BOTH PAGES
 FRONT AND BACK)

RETURN TO: KAT@DKTURF.COM
 FAX 515-262-2923
 OR MAIL TO THE CORPORATE OFFICE

Corporate Office:
 1672 NE 54th Avenue
 Des Moines, IA 50313
 Office: (515) 262-9352
 FAX: (515) 262-2923

Omaha Office
 11937 Portal Road, Ste. 113
 La Vista, NE 68128
 Office: (402) 201-2521
 FAX: (402) 339-9490

Hiawatha Office
 1575 Ketelsen Dr., Ste. 300
 Hiawatha, IA 52233
 Office: (319) 409-1195
 FAX: (319) 294-7043

Bettendorf Office
 1210 44th Street
 Bettendorf, IA 52722
 Office: (563) 823-1842
 FAX: (563) 441-7864

Name of Firm _____

Phone Number (____) _____ EMAIL: _____

Street _____ P.O. Box _____

City _____ State _____ Zip +4 _____

LEGAL STATUS: (circle one) Proprietorship Partnership Corporation
 If a Corporation then Federal I.D. # _____
 If not a Corporation then S.S.N. # _____
 Sales Tax Exemption # _____ (if this is left blank then you will be charged Sales Tax
 Customer Applicator License # _____ and a signed form must be on file)

NAME AND ADDRESSES OF OWNERS OR PRINCIPALS

Name	Address	City, State, ZIP	Home Phone Number
------	---------	------------------	-------------------

Date Business Began _____ Amount of Credit Requested _____

Contact Person in Accts Payable _____ Accts Payable Email : _____

BANKING INFORMATION:

Name _____ Checking Account # _____

Street _____ City, State _____

Zip +4 _____ Loans Outstanding _____ Account # _____

Contact Name _____ Phone # _____ Fax # _____

TRADE REFERENCES: (This section must be completed entirely!)

Name _____

Name _____

Street _____

Street _____

City, State, Zip +4 _____

City, State, Zip +4 _____

Phone Number _____

Phone Number _____

Fax Number _____

Fax Number _____

1. Is the applicant currently involved in any collection action or payment dispute? _____
 2. Are there any outstanding liens or judgements against the applicant? _____
 3. Has the applicant ever filed for bankruptcy? _____ If Yes what is the current status of the bankruptcy? _____
 4. Are the applicant's receivables pledged or assigned to any other creditor, lender or third party? _____
- If you answered yes to 1, 2, 3, or 4 please Explain _____

The undersigned applicant hereby applies to D & K Products for credit and agrees that the terms and conditions contained on the reverse side hereof shall apply to any credit extended by D & K products applicant. I/we authorize my bank or other agency with whom I/we have credit dealings, to release credit and financial information to D & K Products in support of the application.

By _____

By _____

Title _____ Date _____

Title _____ Date _____

Applicant's ("your") signature of the Application for credit contained on the reverse side hereof constitutes your acceptance of the following terms and conditions in consideration of D & K Products extending credit to you.

Upon D & K Products' approval of and in reliance upon credit information which you submit, D & K Products will assign you a maximum credit amount ("Credit Limit") from time to time. D & K Products has the right to reduce your Credit Limit and/or withdraw your credit privileges at any time without prior notice except as otherwise provided by law.

An invoice which sets forth the principal balance for purchases made and the date that said principal balance is due ("Net Due Date") will be issued to you by D & K Products. You agree to pay D & K Products the principal balance, in full, on or before the Net Due Date specified on the invoice.

In the event you fail to pay the principal balance, in full, on or before the Net Due Date specified by D & K Products, D & K Products reserves the right, among other remedies, to suspend further deliveries and to foreclose any security interest which D & K products may have.

A finance charge shall accrue after said Net Due Date at the rate of eighteen percent (18%) per annum on the unpaid principal balance (but not in excess of the maximum rate allowed by the laws of the state of applicant's business address shown on the reverse side hereof.) (Finance Charge") Any payments made by you shall first be applied as D & K Products see fit to the unpaid principal balance.

Should your financial strength become unsatisfactory to D & K Products, cash payment or security satisfactory to D & K Products may be required by D & K Products for future deliveries and for purchase theretofore delivered.

If any unpaid balance is not timely made and D & K Products pursues payment, including but not limited to legal action, arbitration proceedings, or collection efforts, Applicants shall pay all costs incurred by D & K Products related to such pursuits. Costs shall include but are not limited to attorney fees, expert fees, finance charges and other expenses.

This agreement shall be construed and enforced according to the laws of the State of Iowa. Any action in regard to this agreement or arising out of its terms and conditions may be instituted in the Iowa District Court for Polk County, Iowa. Applicant consents to the jurisdiction of such court and agrees that service of process as provided by the statutes and rules of procedure of Iowa for nonresident persons or foreign corporations deemed to be doing business in Iowa shall be sufficient.

If in the reasonable opinion of D & K Products, the credit of the customer is impaired, or D & K Products should feel itself insecure, or should the customer default in the payment of any invoices, D & K Products reserves the right to demand immediate payment in full of all invoices without discount.

Applicant agrees to provide insurance on all inventory purchased from D & K Products. If at any time insurance on inventory lapses or becomes inadequate in any way, D & K Products will be notified immediately, with the entire balance owed to D & K Products becoming due and payable regardless of Net Due dates printed on invoices.

POWER OF ATTORNEY - Debtor hereby appoints D & K Products as its true and lawful durable attorney-in-fact, irrevocably, with full power of substitution to do the following: (a) to demand, collect, receive, receipt for, sue and recover all sums of money or other property which may now or hereafter become due, owing or payable from the products and accounts receivable; (b) to execute, sign and endorse any and all claims, instruments, receipts, checks, drafts, or warrants issued in payment for the products and accounts receivable; (c) to settle or compromise any and all claims arising under the products and accounts receivable; and in the place and stead of Debtor, or execute and deliver its release and settlement for the claim; (d) to execute any UCC financing statements or other UCC forms required by D & K Products; and (e) to file any claim or claims or to take any actions or institute or take part in any proceedings, either in its own name or in the name of the Debtor, or otherwise, which in the discretion of D & K Products may seem to be necessary or advisable in relation to this Agreement. This power is given as security for the indebtedness incurred by Debtor or the grower customers as a result of the sale of the products to Debtor, and the authority hereby conferred is and shall be irrevocable and shall remain in full force and effect until renounced by D & K Products or until all indebtedness is satisfied, whichever occurs first.

Credit Terms and Conditions reviewed by _____

Personal Guarantee

_____ ("Guarantor") hereby unconditionally guarantees the prompt and full payment and performance of all indebtedness, liabilities, obligations and covenants due D & K. Guarantor's obligations are absolute and continuing and shall not be affected or impaired if D & K amends, renews, extends, compromises, exchanges, fails to exercise, impairs or releases any of the indebtedness owed by the credit applicant. In addition, the obligation is not affected or impaired by the death, incompetency, termination, dissolution, insolvency, business cessation or other financial deterioration of the credit applicant or by any of the following: any present or future law or order of any government or agency thereof purporting to reduce, amend or otherwise affect the indebtedness of the credit applicant or any other obligor or to any other terms of payment; the extension of the time for payment of any principal or interest on the indebtedness or of the time for performance of any obligations, covenants or agreements; the voluntary or involuntary liquidation, dissolution, sale or other disposition of all or substantially all the assets, marshalling of assets, receivership, insolvency, bankruptcy, assignment for the benefit of creditors, reorganization, or other similar proceedings affecting the Guarantor of the credit applicant or any of their assets, or any allegation or contest of the validity of any agreement; the default or failure of the Guarantor to fully perform any obligation set forth in this Guaranty; any event or action that would, in the absence of this paragraph, result in the release or discharge of the Guarantor from the performance or observance of any obligation, covenant or agreement contained in this paragraph; and any other circumstances which might otherwise constitute a legal or equitable discharge or defense of a surety or a guarantor. The Guarantor's obligations are direct and unconditional and may be enforced without requiring D & K to exercise, enforce, or exhaust any right or remedy against any third party, or any security or collateral.

Dated this ____ day of _____

Guarantor

Company

**SUPER
THANK
YOU**

FROM OUR FAMILY TO YOURS,
THANK YOU SO MUCH FOR YOUR
CONTINUED SUPPORT!

WE DO WHAT WE DO,
BECAUSE TURF MATTERS.

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Products

Your Turf Products Supplier

D & K PRODUCTS WAREHOUSE DIRECTORY



HOME OFFICE/WAREHOUSE

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DES MOINES, IOWA 50313
(800) 798-9352 • FAX (515) 262-2923



CEDAR RAPIDS WAREHOUSE

1575 KETELSEN DRIVE, SUITE 300
HIAWATHA, IOWA 52233
(319) 409-1195 • FAX (319) 294-7043



OMAHA WAREHOUSE

11937 PORTAL ROAD, SUITE 113
LA VISTA, NEBRASKA 68128
(402) 201-2521 • FAX (402) 339-9490



QUAD CITIES WAREHOUSE

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BETTENDORF, IOWA 52722
(563) 823-1842 • FAX (563) 441-7864