

Nutrien[®]
Solutions

Evergro[™]

**TURF PRODUCTS
GUIDE 2024**

TEE UP SUCCESS WITH NUTRIEN SOLUTIONS EVERGRO

Welcome to Nutrien Solutions Evergro, where lush greens meet unrivaled excellence. Elevate your golf course management to a whole new level with our cutting-edge nutrient solutions designed for peak turf performance.

Premium Turf Nutrition:

Nutrien Solutions Evergro stands as the epitome of premium turf nutrition. Our specialized formulations are crafted to ensure your golf course receive the perfect blend of nutrients, promoting healthy grass growth, vibrant color, and impeccable playability.

Tailored Solutions for Every Course:

No two golf courses are the same, and neither are their needs. Nutrien Solutions Evergro understands this, offering a range of tailored nutrient solutions to meet the unique requirements of your course. From tee to green and all points in between, we've got you covered.

Environmental Stewardship:

Nutrien Solutions Evergro takes pride in its commitment to environmental stewardship. Our products are formulated with sustainability in mind, promoting turf health without compromising the delicate balance of ecosystems surrounding your course.

Scientific Precision for Optimal Results:

Experience the power of science on your turf. Nutrien Solutions Evergro products are backed by rigorous scientific research, ensuring precise blends that enhance root strength, disease resistance, and overall turf resilience, making your golf course the envy of others.

Your Partner in Success:

At Nutrien Solutions Evergro, we're not just suppliers; we're your partners in golf course success. Our expert team is dedicated to providing personalized support, sharing industry insights, and ensuring you achieve and maintain the standards of excellence your golf course deserves.

Trusted Supplier:

Join the ranks of renowned golf courses that trust Nutrien Solutions Evergro for superior turf care. Our solutions have transformed landscapes, delivering exceptional playing surfaces that captivate players and elevate your course's reputation.

Country Club®

Country Club is LebanonTurf's high performance fertilizer and combination products designed specifically for golf courses, sports turf and other highly maintained turf. Country Club includes both blended and homogenous products, produced with our trusted Composite Technology granulation process. Our proprietary technology of Meth-Ex®, MESA® and EXPO® are used extensively throughout the product line.

Country Club® MD

Maximum Dispersion

Country Club MD is an innovative fertilizer developed to provide superior turf quality and golf course playability. It is uniquely formulated to consistently deliver the optimum nutrients and stress-buffering biostimulants that your playing surfaces need to stay healthy all season long. It utilizes a unique, highly dispersing homogeneous granule technology that includes the stress-buffering biostimulants sea plant kelp meal and humic acid. Country Club MD features Meth-Ex® slow release, methylene urea nitrogen combined into an SGN 80 particle size that is ideal for putting greens.

Country Club® IV

Increased Visibility

Country Club IV is a premium greens grade fertilizer developed to provide superior turf quality and golf course playability. It is specifically designed with a lighter granule color to help assist with easier, more accurate putting greens applications. It utilizes Meth-Ex high-activity methylene urea nitrogen that delivers excellent color response and consistent long-term feeding. Country Club IV also supplies immediate availability, non-turf burning sulfate of potash which promotes root growth, encourages photosynthesis and elevates the turf plant's ability to handle environmental stress.



Emerald Isle Solutions™

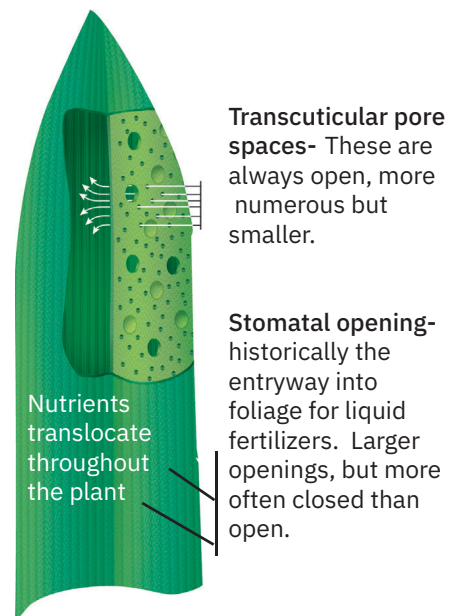
Emerald Isle Solutions' TrueFoliar® nutrition is more than just high-quality, foliar-absorbed nutrients. It also incorporates seaplant extract, antioxidants, fulvic acids, and amino acids. This complete nutritional approach increases the turf's ability to withstand stress, drought, and disease pressure and to produce carbohydrate reserves and root mass. Such a comprehensive approach goes beyond just "feeding" turf, and ensures turfgrass managers consistently good turf quality.

Emerald Isle Solutions TrueFoliar® vs. "Liquids"

All foliars are liquids, but not all liquids are TrueFoliars. In other words, don't confuse the method of application with how a plant absorbs what's applied. Just because you're spraying it on doesn't mean you're spraying it in.

It's well known that turfgrass plants are capable of taking up nutrients through the leaf tissue. It's also been established that the stomates, or larger openings in the leaf tissue, are not likely the primary means of entry for foliar nutrients. Under favorable environmental conditions, stomates may be open and allow nutrient entry. However when stress occurs, these stomatal guard cells close to conserve moisture which renders them incapable of taking in nutrients.

Transcuticular pores, which are far more numerous than stomates, are always open. Transcuticular pores are much, much smaller than stomates and their opening walls carry a negative electrical charge. They can serve as entry points for nutrients if the nutrients are in a form that is small enough to enter. Emerald Isle Solutions TrueFoliar® products sidestep the electrochemical and physical obstacles by formulating nutrients into a non-traditional matrix. This protects the nutrient chemistry, enhances uptake and utilization, and minimizes the potential for leaching.



COUNTRY CLUB GREENS GRADE HOMOGENEOUS FERTILIZERS

Product	Description	Analysis	SGN	Unit Size
Country Club MD 12-24-8	40% Meth-Ex + Micros	12-24-8	80	18.1 Kg
Country Club MD 12-0-24	65% Meth-Ex + Micros	12-0-24	80	18.1 Kg
Country Club MD 18-0-18	64% Meth-Ex + Micros	18-0-18	80	18.1 Kg
Country Club MD 18-3-18	78% Meth-Ex + Micros	18-3-18	80	18.1 Kg
NEW Country Club IV 17-0-17	50% Meth-Ex SOP + Micros	17-0-17	80	18.1 Kg
NEW Country Club 16-4-8	Ammoniacal Fe	16-4-8	150	22.7 Kg

COUNTRY CLUB BLENDED FERTILIZERS

Product	Description	Analysis	SGN	Unit Size
Country Club Starter	55% Mesa	10-18-18	150	22.7 Kg

GREENS GRADE HOMOGENEOUS FERTILIZERS

Product	Description	Analysis	SGN	Unit Size
Contec Greens	71% Methylene Urea	19-2-15	110	22.7 Kg
Contec High K Greens	70% Methylene Urea	13-2-26	110	22.7 Kg



EMERALD ISLE SOLUTIONS



A complete nutritional approach to increase turf's ability to withstand stress, drought and disease.

For over 30 years, Emerald Isle products have been helping golf course superintendents manage their putting greens with industry proven products that provide nutrition and assist with managing environmental stress. Emerald Isle Solutions' TrueFoliar® nutrition is more than just high-quality, foliar-absorbed nutrients. It also incorporates seaplant extract, antioxidants, fulvic acids, and amino acids. This complete nutritional approach increases the turf's ability to withstand stress, drought, and disease pressure and to produce carbohydrate reserves and root mass. Such a comprehensive approach goes beyond just "feeding" turf, and ensures turfgrass managers consistently good turf quality.

SEAPLANT BASED PRODUCTS

- **CPR Premix Biostimulant 4-0-1**
(60% Seaplant Extract + Micronutrients + Wetting Agent)
- **PanaSea Plus Seaplant Extract 0-2-2**
(100% Seaplant Extract + Phosphoric acid)



TRUE FOLIAR FERTILIZERS

- **True Foliar N 19-1-6**
(Urea + Ammonium Nitrate + Fe/Mn/Zn/Cu)
- **True Foliar NPK Plus 10-3-16**
(Potassium Phosphite + 30% Seaplant Extract)
- **True Foliar Si 3-0-10**
(K Citrate & Carbonate + 1% Silicon + 45% Seaplant Extract)
- **True Foliar Mg Mn 6-0-0**
(Mg Nitrate + Mn Nitrate + 30% Seaplant Extract)



Emerald Isle Solutions™ True Foliar® nutrients incorporate seaplant extract, antioxidants, fulvic acids, and amino acids into a complete nutritional approach to turf health and vitality. Emerald Isle Solutions™ foliar-absorbed nutrients produce carbohydrate reserves and root mass even when seasonal stresses have compromised root health. No matter how tough the conditions, using Emerald Isle Solutions™ will increase the turf’s ability to withstand stress, drought and disease.

NUTRI-RATIONAL TRUE FOLIAR FERTILIZERS

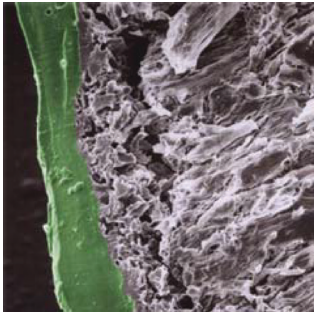
Product	Description	Analysis	Unit Size
Nutri-Rational Foliar N	14% Seaplant extract + Fe, Mn, Zn, Cu	19-1-6	9.46 L
Nutri-Rational Foliar NPK Plus	30% Seaplant extract	10-3-16	9.46 L
Nutri-Rational Foliar Mg Mn	30% Seaplant extract + Mg, Mn	6-0-0	9.46 L
Nutri-Rational Foliar Si	45% Seaplant extract + Si	3-0-10	9.46 L
Panasea Plus Growth & Root Stimulator	100% Seaplant extract	0-2-2	9.46 L
Emerald Isle CPR Turf Supplement	60% Seaplant extract + Mg, S, Fe, Mn, Zn	4-0-1	9.46 L / 56.7 L



CONTROLLED RELEASE FERTILIZER

PROTECT THE ENVIRONMENT. THINK GREEN.

For over 30 years, Emerald Isle products have been helping golf course superintendents. Research shows POLYON® controlled release fertilizers can keep more N in the root zone, minimize losses, maximize efficiency and help protect our environment.



THE POLYON LEGACY.

POLYON, Agrium Advanced Technologies advanced polyurethane coating technology, was introduced nearly 20 years ago as a revolutionary controlled-release fertilizer. It was recognized and distinguished from others by its trademarked GREEN color and of course its Patented Performance. As a result, it soon earned the trust of turf and ornamental professionals all over the world for cost effective and dependable results, which is what makes it the #1 GREEN choice. Today, GREEN means as much to the environment as it does about performance and POLYON delivers both: trusted performance that MAXIMIZES results and MINIMIZES environmental impact.

Conventional N application methods apply much of the fertilizer in advance of plant needs. Nitrogen in the soil is subject to processes by which it can be lost to ground and surface water or to the atmosphere before the plant can absorb it. These losses reduce economic efficiency of the applied fertilizer and may pose an environmental risk.

A variety of fertilization practices can be implemented to reduce N losses and increase N efficiency. Most of these require additional operations that increase costs, are inconvenient, or come at a time when weather prevents timely nutrient application. POLYON technology allows the user to maintain flexibility in their fertility programs while minimizing N loss.

WHY IS GREEN BETTER FOR THE ENVIRONMENT?

POLYON controlled release fertilizers encapsulate Nitrogen within a patented polymer membrane that releases the N as soil warms. POLYON can be applied in advance of plant demand because cool soil temperatures of early spring slow N release. Less N is released to the soil from which it can be lost. As soils warm, plant growth and nutrient demand increase. Warmer temperatures also increase N release from POLYON to keep pace with plant needs.

Research shows POLYON maximizes N efficiency and environmental safety. The key is the patented reactive layer coating (RLC) technology. Unlike other polymer coated products, POLYON forms a bond with the urea during the coating process that ensures consistency in every particle. Other products create layers around the fertilizer that may crack or lead to premature release into the environment.

Numerous studies document maximum N efficiency and uptake with POLYON, implying greater environmental safety. Studies measuring leaching and volatilization (loss of N gases to the atmosphere) verify POLYON minimizes N loss compared with conventional N fertilizers.





POLYON® controlled-release fertilizer, with its trademarked green color, is backed by years of research. For decades, it has been the market leader in the turf and ornamental markets, serving landscape and golf professionals as an affordable way to sustain healthy, green turfgrass. Now these same benefits of controlled-release fertilizer are being experienced by growers in specialty agriculture too

REACTIVE LAYERS COATING TECHNOLOGY

Ultra-thin, ultra-tough polymer coating

Unique coating process for consistent nitrogen (N) release

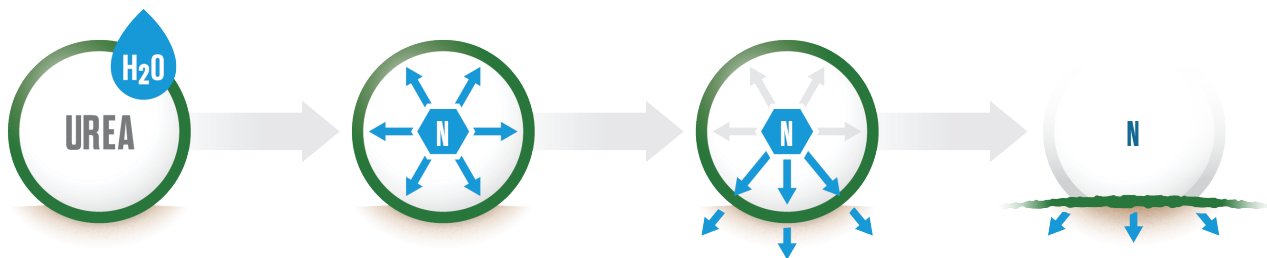
SGN options
micro, mini and regular



Specially selected granules are round, uniformly-sized and dust-free to facilitate coating process

Thickness of coating determines longevity from 8 to 52 weeks or more

HOW IT WORKS



Within a week of application, soil moisture penetrates the polymer coating through osmosis.

Encapsulated nutrients are dissolved, but not released.

Over time the dissolved nutrients slowly release through diffusion, in response to temperature and coating thickness.

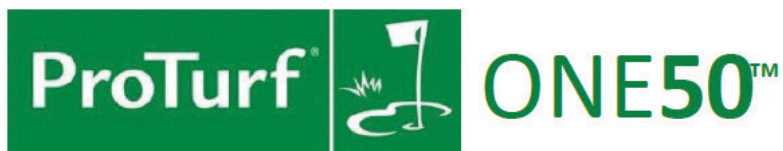
After the complete release of nutrients, the polymer coating eventually decomposes by microbial activity into naturally occurring elements.



PROTURF FAIRWAY GRADE FERTILIZERS WITH POLYON

Product	Description	Analysis	SGN	Unit Size
ProTurf ProTour	40% POLYON	30-3-18	250	25 kg
ProTurf Summer Total	50% POLYON + Micros	22-2-22	250	25 kg
ProTurf Spring & Fall Total	50% POLYON + Micros	23-3-23	250	25 kg
ProTurf ProTour Plus	65% POLYON +1.3% Fe	30-3-15	250	25 kg
ProTurf Eagle	80% POLYON + 7% S	25-4-10	250	25 kg
ProTurf Organic Plus	50% POLYON 25% Sustane + Micros	24-4-12	250	25 kg
ProTurf Quick Start	50% POLYON 25% Sustane + Micros	13-26-6	250	25 kg
ProTurf Premium	100% POLYON + 2% Fe	34-0-9	250	25 kg
ProTurf POLYON 43	100% POLYON	43-0-0	250	25 kg





PREMIUM MIDSIZE PRILL TURF FERTILIZER

- SGN 150
- Greater efficiency of delivering nutrients to the soil uniformly
- 600 particles per sqft vs 90 particles for traditional fairway products
- Dust Free, 2 particle blend formulation

PROTURF ONE50 TEE & FAIRWAY GRADE FERTILIZERS

Product	Description	Analysis	SGN	Unit Size
ProTurf ONE50	66% POLYON + 1% Fe, S, Mn	23-5-10	150	22.7 kg
ProTurf ONE50	82% POLYON + 1.25% Fe, S, Mn	30-3-6	150	22.7 kg
ProTurf ONE50	100% POLYON + 1% Fe & micros	30-0-10	150	22.7 kg
ProTurf ONE50	100% POLYON	32-0-11	150	22.7 kg
ProTurf ONE50	100% POLYON + micros	22-0-22	150	22.7 kg

PROTURF HOMOGENOUS TEE & FAIRWAY GRADE FERTILIZERS

Product	Description	Analysis	SGN	Unit Size
Complete Course	66% Meth Urea + 1% Fe, S	31-3-8	145	22.7 kg
Contec 21-3-17	68% Meth Urea + 1.5% Fe, S, Mg, Mn	21-3-17	195	22.7 kg



PROTURF FAIRWAY GRADE FERTILIZERS WITH EVERCOTE

Product	Description	Analysis	SGN	Unit Size
ProTurf 15-20-15	50% Evercote + micros	15-20-15	250	25 kg
ProTurf 28-4-8	40% Evercote	28-4-8	250	25 kg
ProTurf 25-5-15	60% Evercote + 0.7% Fe	25-5-15	250	25 kg
ProTurf 26-3-12	80% Evercote + micros	26-3-12	250	25 kg

PROTURF FAIRWAY GRADE FERTILIZERS

Product	Description	Analysis	SGN	Unit Size
ProTurf Fall Blend	50% XCU + 8% S	15-0-30	250	25 kg
ProTurf 21-4-15	65% XCU + 3% Fe	21-4-15	250	25 kg
ProTurf K-App	60% MESA	8-0-33	250	25 kg
ProTurf Construction	50% Sustane	10-10-10	250	25 kg
ProTurf GTO	40% MESA + 2% Fe, S, Mg	20-4-20	250	25 kg
ProTurf Wintergard	40% EXPO & MESA	15-3-35	250	25 kg

*Custom blends are available with a minimum order of 80 x 25 kg bags.

Nutrien Solutions - Evergro offers custom blended, specialty fertilizers made to meet your needs.

We will gladly design your custom fertilizer based on a comprehensive soil analysis





WORLD CLASS NATURAL FERTILIZERS

Since 1988.

Sustane granulated slow release fertilizers replenish the soil with the essential nutrients and a rich supply of humus as required for long term soil building and plant growth. Groundskeepers, nurserymen, master gardeners and professional growers around the world use Sustane.

High Biological Activity.

Sustane fertilizers are biologically active organic products created from a proprietary controlled aerobic process using composted turkey litter. Through this unique process, the turkey litter is concentrated into a nutrient dense humus containing beneficial microorganisms with very low burn potential.

Always Quality Assured.

The 6-month aerobic composting process is monitored weekly for moisture, temperature and oxygen assuring a stable, consistent product. Sustane operates its own in-house full time quality assurance laboratory to maintain AAPFCO, USDA-APHIS Export and OMRI standards.



SUSTANE ORGANIC FERTILIZERS

Product	Description	Analysis	SGN	Unit Size
Sustane 5-2-4 Medium	70% SRN + Fe, Ca, S	5-2-4	200	22.7 Kg
Sustane 5-2-4 Fine	70% SRN + Fe, Ca, S	5-2-4	100	22.7 Kg
Sustane 5-2-10 Fine	70% SRN + Fe, Ca, S	5-2-10	100	22.7 Kg
Sustane 10-2-10 Fine	80% SRN + Fe, Ca, S	10-2-10	100	22.7 Kg
Sustane 8-2-4 Medium OMRI	70% SRN + Fe, Ca, S	8-2-4	200	22.7 Kg

Sustane is a trademark of Sustane Natural Fertilizer, Inc.

The Sustane Advantage.

Consistent, Uniform Granulation, Low Dust, Low Odor. Sustane is an organic based product, which naturally contains all nutrients known to be essential for plant photosynthesis. All Sustane fertilizers have consistent granulation and particle sizing that will not settle out or separate. Sustane fertilizers are slow release nitrogen with long lasting benefits without causing excessive top growth.



The Organic Research Leader.

Sustane has been developing products since the early 1980's with the most comprehensive research program of any natural fertilizer company competing in the world market today. Sustane knows how and why the products perform in the field. Today, Sustane fertilizers are the standard to match in university and professional grower trials.



WATER SOLUBLE FERTILIZERS

Product	Analysis	Unit Size
Urea Micro Prill SGN 150	46-0-0	25 kg
ASN	26-0-0 14 S	25 kg
Best Soluble Ammonium Sulphate	21-0-0 24% S	22.7 kg
Calcium Nitrate	15.5-0-0 19% Ca	25 kg
Potassium Nitrate	13-0-46	25 kg
Mono Ammonium Phosphate (MAP)	12-62-0	22.7 kg
Di Ammonium Phosphate (DAP)	21-53-0	22.7 kg
Mono Potassium Phosphate (MKP)	0-52-34	25 kg
Muriate of Potash Soluble (KCl)	0-0-62	25 kg
Sulphate of Potash Soluble (SOP)	0-0-50 + 17% S	25 kg
ProHort Magnesium Sulfate	10% Mg + 13% S	25 kg
ProHort High Urea	37-4-9	11.34 kg
ProHort Full micros	28-5-18	15 kg
ProHort High Mn	12-0-12	15 kg
ProHort Establishment	10-52-10	11.34 kg
ProHort Balanced	20-20-20	11.34 kg
Stock Tank Mix	Micronutrient package	2 kg/10 kg



Ocean Organics is a manufacturer of high performance, sustainable, scientifically-proven marine based biostimulants, plant growth materials and granular fertilizers. Products contain unique and proprietary constituents including state-of-the-art extracts from seaplants and other renewable natural botanical resources. Materials have been tested in over 25 universities and independent laboratories.

OCEAN ORGANICS TURF SUPPLEMENTS

Product	Description	Analysis	SGN	Unit Size
Seablend	Kelp, Fish & Crab Meal Based	12-0-12	90	22.7 kg Bag
Stress RX	Osmoprotectant, Pigment & Pro-Amino	6-0-2	Liquid	9.45 L Jug

PROTURF LIQUIDS

Product	Description	Analysis	Unit Size
6 Iron	6% Iron	15-0-0	20L/208L/1000L
N-Sure	72% SRN	28-0-0	19.5L/210L/1000L
KTS	Potassium Thiosulphate	0-0-25 17S	17.1L/210L/1000L
ProTurf Flow N-Plus	28-0-0 + inhibitor and humic	28-0-0	200L/1000L
ProTurf Flow	Balanced N/K with sulphur	12-0-12	200L/1000L
Humic Actagro	Liquid Humus 22%	0-0-0-22	20L/200L
Liquid "K"	Liquid Fertilizer with Organic Acids	0-0-27	20L/200L



MAKE BETTER USE OF WATER



Zipline is a dual-action soil surfactant blend containing a unique mineral solution bio-extract.

Specifically designed for turf care professionals, Zipline is a game-changing formulation engineered to improve water infiltration and deliver balanced hydration. Zipline gives your turf an added boost by enhancing mineralization and promoting a variety of additional plant health benefits.

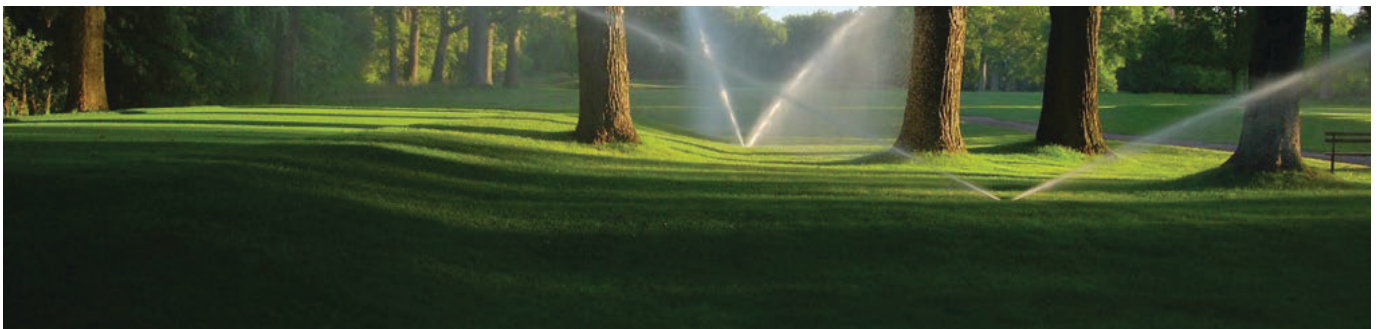
What Zipline does:

- Promotes Balanced Hydration
- Unlocks Existing Bound Nutritional Elements
- Delivers Consistent Results



Revolution is not your typical wetting agent. It's the only soil surfactant that can balance air to water ratios in the rootzone under wet or dry conditions. By managing moisture more efficiently, Revolution keeps surfaces drier for firmer greens and better playability. This patented formulation gives you consistent control for healthier turf and better playing surfaces all season long.

- Produces drier, firmer putting surfaces
- Allows deep and infrequent irrigation without sacrificing playability
- Dramatically reduces the need to hand water
- Strengthens plant's natural ability to withstand stress and disease pressure





- Greatly increases water penetration and irrigation efficiency
- Save 20% - 50% in water and energy use
- Better turf performance and playability
- Significantly reduces runoff on sloped areas: low areas aren't wet, high areas aren't dry
- Moves fertilizer and chemicals into the soil more uniformly for maximum benefit



- Sixteen90 gives you guaranteed safe protection against water repellency problems for ninety days
- Proven to remain effective in the soil for up to three months, reducing water repellency (the cause of localized dry spots) and promoting turf uniformity



- Is a high performance soil surfactant that is the foundation of an effective rootzone management program
- Safe for all turf species, throughout the entire growing season and in all climates
- Primer 604 can help you maintain your greens, tees, and sports turf in several ways



- Provides rapid recovery of stressed turf with visible results in as little as 3 DAYS when used at the treatment rate
- Provides up to 30-DAY PROTECTION against the development of localized dry spot when applied on a monthly basis at the preventative rate
- Safe to use on all turf varieties and areas, including golf course greens, tees, fairways, athletic fields, and residential lawns



High quality seaweed extract:

- Promotes fast recovery of stressed turf
- Stimulates root growth
- Promotes the growth of healthy, vigorous turfgrass

HYDRATE YOUR TURF WITH AQUATROLS

For over 60 years, Aquatrols has built a global reputation for innovation, reliability and value by delivering the results you need to achieve success. Now, more than ever, making the best use of water and other resources is essential – and Aquatrols is leading the way. Our team of scientists and technical professionals are continually seeking more effective solutions to address the unique challenges facing the turf industry and individual turf managers. We offer a complete product line to fit every need and budget.

AQUATROLS WETTING AGENTS AND SURFACTANTS

Product	Description	Unit Size
Dispatch Sprayable	A synergistic Block/APG Technology	10 L / 113.5 L
Revolution Liquid Soil Surfactant	An Advanced Modified Methyl Capped Block Co-Polymer	10 L / 113.5 L / 1,000 L
Primer 604 Soil Surfactant	A Reverse Block Co-Polymer Surfactant	10 L / 210 L
Aqueduct Flex	Block Co-Polymer	20 kg Bag
Advantage + Seaweed	Advantage + Seaweed Hand Watering Puck	Box of 6 pellets
Advantage Applicator	Hose End Applicator for Pucks	1 UNIT
Sixteen90 Sprayable	A Straight Block Co-Polymer	10 L / 113.5 L
Zipline ST	Etherified Polyoxyethylene-Polyoxypropylene Block Copolymer	10 L / 113.5 L

Revolution, PrimerSELECT, Dispatch, ADVANTAGE, Zipline ST are all trademarks of Aquatrols



SOIL AMMENDMENTS

Product	Description	Unit Size
Profile Greens Grade	Porous cermaic soil conditioner	22.7 kg
Prilled Gypsum	Calcium sulphate - 22% CA, 18% S	22.7 kg
Calpril - fine	Calcium carbonate - 36% CA	22.7 kg
Dolopril - fine	Calcium & magnesium carbonate - 20% Ca, 11% Mg	22.7 kg
Quik-Cal - medium	Pelletized calcium	22.7 kg
Spread Easy 2000	Pelletized calcium & magnesium carbonate - 20% Ca, 11% Mg	25 kg
Calpril - bulk	Calcium carbonate - 36% Ca	907 kg
Dolopril - bulk	Calcium & magnesium carbonate - 20% Ca, 11% Mg	907 kg



BASEBALL INFIELD PRODUCTS

Product	Unit Size
Turfce Quick Dry	22.7 kg
Turfce Pro League Red Elite	22.7 kg
Turfce MVP	22.7 kg
Turfce Mound Master Blocks Red	22.7 kg
Turfce Mound Clay Red	22.7 kg
Baseline Linemaker	22.7 kg





NEXT GENERATION - POTENTIATED RESEARCH BACKED

Excalibur™ is a new, proprietary, unique, high-performance coactive chemistry that features Potentiated Hydrophobe Technology-PHT Technology™. Excalibur is a great tank mix partner with your current agronomic program to target mitigation of varying environmental factors and place synergistic chemistries in the correct zone of the soil profile for maximum effectiveness. Targeting these zones within the soil profile makes excellent plant health achievable. 85 percent of plant weight is water. If a plant is not properly hydrated, plant health starts to decline. Excalibur can be placed in any agronomic program to allow the turf manager better water management control.

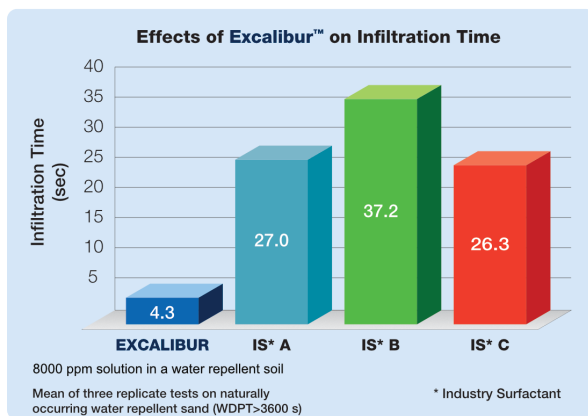
WHAT IS POTENTIATED HYDROPHOBE TECHNOLOGY?

Potentiated Hydrophobe Technology is comprised of a molecule with a strongly drophobic chain that permits a more powerful affinity to attach to soil particle surfaces allowing for supreme infiltration and longevity. PHT Technology allows for the water to wet quicker than any other product on the market, allowing for supreme infiltration.

WHAT DOES EXCALIBUR DO?

Excalibur is a next generation rapid response soil surfactant that delivers rapid infiltration and consistent dry-down. Excalibur helps achieve consistent hydration as well as superior rehydration. The unique infiltration-rehydration characteristics of Excalibur will provide unparalleled soil moisture responsiveness. When used as directed, Excalibur is safe to turf and can be applied at any time of the year to substantially improve turf grass quality and resistance to stress. Excalibur is easy to apply through standard spray application equipment to all turf grass areas.

HOW DOES EXCALIBUR STACK UP?



- Excalibur improves infiltration of water 6x better than the competition
- Excalibur is highly effective at managing water repellency in both laboratory and field trials
- Excalibur surpasses the performance of competitors in managing water repellency - a major cause of turf stress
- Excalibur produced excellent playing conditions with resilient, high quality turf grass even under severe environmental stress

Accomplished with significantly LOWER rates than competing products

AQUA-AID WETTING AGENT PRODUCTS

Product	Description	Unit Size
Excalibur	Alkoxylated ethylene oxide-propylene oxide adducts	9.46 L
PBS 150	Polyoxyalkylene Polymers	9.46 L
Oars PS	Hexahydroxy polyoxyalkylene polymers with Organic Acids	9.46 L
Oars HS	Octahydroxy polyoxyalkylene polymers with Organic Acids	9.46 L

ENHANCED GREENS PROGRAMS

The OARS HS, OARS PS and Excalibur solutions provide superior moisture management control for putting greens. Utilizing these chemistries during key times of the growing season and your agronomic practices ensures your rootzone receives proper hydration and mitigation of LDS casual agents for a resilient, high-quality, consistent turfgrass system.

OARS HS

- Removes humic coatings from hydrophobic soil particles
- Controls soil water repellency
- Improves water management efficiency
- Increases number of hydrating sites to improve moisture retention
- Reduces drought stress

OARS PS

- Removes humic coatings from hydrophobic soil particles
- Controls soil water repellency
- Increased length of activity in soil
- Improves water management efficiency
- Provides firm fast surface



- Enhanced adsorption to hydrophobic particles provides consistent dry-down and soil hydration
- Radically increases the infiltration of water
- Potentiated chemistry sets a NEW standard for management of environmental stresses
- Provides resilient, high-quality, consistent turfgrass
- Effective at significantly lower use rates than competing products

Application rates and timing:

- Apply OARS HS or OARS PS at 5 oz per 1000 sqft
- Apply immediately following cultural practices to “cleanse the sand” of hydrophobic elements
- Early season and mid-summer applications to mitigate onset of LDS conditions
- Begin making applications of Excalibur 30 days after OARS HS or OARS PS application
- Apply throughout your growing season
- Refer to label or table above for Excalibur rates and timing

ENHANCED FAIRWAYS, TEES, AND ROUGHS PROGRAM

The PBS150 and Excalibur solutions provide superior moisture management control for turfgrass managers. Utilizing these chemistries during key times of the growing season ensures your rootzone receives proper hydration for a resilient, high-quality, consistent turfgrass system



- Reduces hydrophobic conditions on a sustainable basis
- Encourages a pattern of hydration and re-hydration that improves the amount of available water in the soil profile to meet the metabolic demands of the plant
- Restores the uniform movement of water into and through the soil matrix
- Improves stress tolerance



- Enhanced adsorption to hydrophobic particles provides consistent dry-down and soil hydration
- Radically increases the infiltration of water
- Potentiated chemistry sets a NEW standard for management of environmental stresses
- Provides resilient, high-quality, consistent turfgrass
- Effective at significantly lower use rates than competing products

Application rates and timing:

- Apply PBS150 at 5 oz per 1000 sqft
- Apply early Spring (March / April) to mitigate LDS and soil water repellency issues throughout the growing season
- Reapply in mid to late Summer (August / September)
- Begin making applications of Excalibur 60 days after PBS150 application
- Apply throughout your growing season
- Refer to label or table above for Excalibur rates and timing



INNOVATIVE SOLUTIONS FOR ENHANCED TURF PERFORMANCE

Growing Golf through Science and Education

Our commitment to the golf industry goes far deeper than the products we manufacture. We take great pride in empowering turf management professionals through our science and educational initiatives. We also provide customized agronomic solutions in addition to an excellent product portfolio to achieve quality playing conditions.

FUNGICIDES



GROWTH REGULATORS



INSECTICIDES



SYNGENTA PLANT PROTECTION PRODUCTS

Product	Active Ingredient	FRAC	Mobility	Unit Size
Ascernity	Difenoconazole/Solatenol	3/7	Systemic	3.78 L
Banner Maxx	Propiconazole	3	Systemic	22.7 kg
Civitas + Harmonizer	Mineral Oil	N/C	ISR	18.9 L
Daconil 2787F	Chlorothalonil	M	Contact	10 L
Heritage Maxx	Azoxystrobin	11	Systemic	3.78 L
Instrata	Propiconazole/Fludioxonil/ Chlorothalonil	3/12/M	Contact/Systemic	7.1 L
Instrata II	Solatenol/Fludioxonil	12/7	Contact/Systemic	8.1 L (7.2 L+0.9L)
Medallion	Fludioxonil	12	Contact	3.78 L
Secure	Fluazinam	29	Contact	3.78 L
Subdue Maxx	Metalaxyl	4	Systemic	1 L
Velista	Penthiopyrad	7	Systemic	624 gr
Posterity	Pydiflumetofen	7	Systemic	3.1 L

SYNGENTA GROWTH REGULATION PRODUCTS

Product	Active Ingredient	Unit Size
Primo Maxx	Trinexapac-ethyl	3.78 L

SYNGENTA INSECTICIDE PRODUCTS

Product	Active Ingredient	Unit Size
Acelepryn	Chlorantraniliprole	1.89 L
Acelepryn Granular	Chlorantraniliprole	10 kg bag



TOGETHER WE BUILT A LEGACY, NOW LET'S BUILD THE FUTURE.

We'll meet you there with innovative turf solutions.

Give your customers quality playing surfaces by incorporating Envu's trusted plant protection products into your turf management program.

FUNGICIDES

 **BANOL**[®]  **COMPASS**[®]
50 WG  **DEDICATE**[®]
⊕ Stressgard[®]

 **EXTERIS**[®]  **MIRAGE**[®]  **SIGNATURE**[™] XTRA
⊕ Stressgard[®] ⊕ Stressgard[®] ⊕ Stressgard[®]

INSECTICIDES

 **SUSPEND**[®]  **TETRINO**[®]
PolyZone[®]



ENVU PLANT PROTECTION PRODUCTS

Product	Active Ingredient	FRAC	Mobility	Unit Size
Signature XTRA	Fosetyl-al	U	Systemic	2.5 kg
Banol	Propamocarb	28	Systemic	3.78 L
Dedicate STRESSGARD	Tebuconazole/ Trifloxystrobin	3/11	Systemic	5 L
Exteris STRESSGARD	Fluopyram / Trifloxystrobin	7/11	Systemic	10 L
Rhapsody ASO	Bacillus subtilis	2	Contact	9.46 L
Mirage STRESSGARD	Tebuconazole	3	Systemic	5 L

ENVU INSECTICIDE PRODUCTS

Product	Active Ingredients	FRAC	Mobility	Unit Size
Tetrino	Tetraniliprole	28	Systemic	4 x 2 L
NEW Suspend	Deltramethrin	28	Contact	900 ml / 4 L



Loveland Products offer a complete line of high performance input products. Loveland Products is constantly bringing new, unique chemistries to the marketplace to provide innovative solutions to problems across the agricultural and professional non-crop industries.

LOVELAND PRODUCTS

Product	Active Ingredient	Unit Size
Premium 3-Way	2,4-D/mecoprop/dicamba	10 L
StartUp	Glyphosate	10 L
SST Silica	28% Available Silicon	9.46 L
SST Calcium	8% Calcium, 2% Silica	9.46 L
All Clear	Tank Decontaminator	1L
Li 700	Non-ionic penetrating surfactant that reduces off-target spray drift and reduces spray water pH	10 L
Valid	Premium drift reduction agent to enhance deposition, control droplet size and defoam spray solutions	10 L
Radiate	Plant growth hormone with IBA & Kinetin for root growth	3.6 L

NUFARM PRODUCTS

Product	Active Ingredient	FRAC	Mobility	Unit Size
Affirm WDG	Polyoxin D zinc salt	19	Systemic	3 x 1.9 kg
Velocity	Bispyribac sodium	2	Systemic	5 x 56.7 kg
Aneuw PGR	Prohexadine calcium	N/A	Systemic	4 x 1.5 lb

VALENT PRODUCTS









Product	Active Ingredient	Unit Size
NEW Vectobac Biological Larvicide	Bacillus thuringiensis	5 kg

CORTEVA PRODUCTS

Product	Active Ingredient	Unit Size
Dimension 2EW	Dithiopyr, Group 3 Herbicide	1 L



ADJUVANTS REFERENCE CHART

Product	Description*	Rate*/ 100 L	Properties	Benefits
	<ul style="list-style-type: none"> 80% Non-ionic formulated with Leci- Tech, pH reducing Penetrant, Acidifier Deposition Aid & Drift Agent with Defoamer Component 	250 ml to 500 ml per 100 liters	<ul style="list-style-type: none"> Acidifier (pH reduction) Deposition Aid/ Sticker Drift Control Penetrant Spreader 	<ul style="list-style-type: none"> Reduced Drift by reducing production of small droplets Lowers water pH ensuring pesticide efficiency Spreading and adhesion properties ensure the pesticides stays on leaf Penetrates through waxy leaf cuticles
	<ul style="list-style-type: none"> Leci-Tech anti-form/de-form non-ionic surfactant with drift control Used as a drift control adjuvant to enhance deposition, retention and control spray droplet size of agricultural and industrial chemicals 	250 ml to 500 ml per 100L of spray solution	<ul style="list-style-type: none"> Anitfoam/ Defoam Deposition Aid/ Sticker Drift Control 	<ul style="list-style-type: none"> Drift control adjuvant to enhance deposition, retention and control spray droplet size of agricultural and industrial chemicals Non-ionic, non-foaming, and shear tolerant drift control agent containing suspended antifoam/ defoamer
	All tank mixes requiring defoamer / anti-foamer	10-45 ml per 100 L Defoamer: Add as needed to achieve desired results	<ul style="list-style-type: none"> Dual component antifoam/de-foamer Quick knock down on foam 	<ul style="list-style-type: none"> Controls foam in water, oil, fertilizer and pesticide spray mixtures Reduces mixing time by facilitating faster and more accurate filling
	<ul style="list-style-type: none"> Premium, ammonia free Every Spray Tank requiring a cleanout 	250 ml to 500 ml per 100 liters	Tank Cleaner	<ul style="list-style-type: none"> Dual modes of action; Surfactant to physically remove residues & Degradant to chemically break down residues Ammonia free formulation
	Can be tank mixed with most spray applications that, in addition to turf color enhancement, also provides a clear visual spray pattern indicator for the applicator	10 ml/100 m ² One gallon of Ambient Plus will treat up to 8 acres of turf.	Highly effective dark green pigment concentrate designed to enhance turf color	Can be tank mixed with any spray application including fertilizers, plant growth regulators, wetting agents, fungicides, insecticides, and selective herbicides
	Used as a direct addition to liquid fertilizers when a stable mixture of pesticide and liquid fertilizer is required	13 to 25 ml /100 litres of solution	Compatibility Agent	<ul style="list-style-type: none"> Highly concentrated compatibility agent For direct addition when a stable mixture of pesticides and liquid fertilizer is to be applied in combination.
	Concentrated fragrance used to mask objectionable odors	8 to 24 ml / Liter of spray solution	Odor Eliminator	Concentrated fragrance used to mask objectionable odors
	<ul style="list-style-type: none"> Lake and pond colorant Apply to bodies of water to transform pale or off colored to deep blue 	One package per acre foot	Water colorant	<ul style="list-style-type: none"> Pre-measured New low dust formulation Safe and non-toxic

*ALWAYS READ AND FOLLOW ALL LABEL DIRECTIONS

ORGANIC WEED CONTROL

Product	Active Ingredient	Unit Size
Bio Link EC	Caprylic Acid & Capric Acid	10 L
AXXE Herbicide	Ammonium Nonanoate	9.45 L
Fiesta Herbicide	FeHEDTA 4.43%	9.45 L

SPRAY APPLICATION SUPPLEMENTS

Product	Description	Unit Size
Tyvek Suit	Spray protection suit	M-XXXL
Fighter F Anti Foam	Tank solution anti-foam agent	.95 L
All Clear Tank Cleaner	Tank decontaminator	3.78 L
Concentrated Indicator Blue	Spray indicator	.95 L
Concentrated Indicator Green	Spray indicator	.95 L
Ambient Plus	Dark green pigment concentrate	3.78 L
NEW E-Z Mix	Compatibility agent for liquid fertilizer and pesticide mixtures	3.78 L
NEW Odour Mask	Reduce offensive smells in pest management applications	1 L
NEW Aqua Biotic Extreme	Pond algae cleaner	5 kg

SMITH PERFORMANCE SPRAYERS R200 HANDHELD SPRAYER, 2-GALLON CAPACITY

Each handheld compression sprayer is equipped with a high-efficiency pump, a 25 PSI pressure regulator, a pressure relief valve, and Viton® seals throughout the pump and shut-off. Additional features include a 21" poly-lined stainless steel wand, a drip-free wand holder, a 50" chemical-resistant poly hose, and a nylon shoulder strap. Includes adjustable brass nozzle, high foaming nozzle, wide flat fan nozzle, and narrow flat fan nozzle. Sprayer accepts TeeJet® nozzles.



SMITH PERFORMANCE SPRAYERS NL400, NO-LEAK BACKPACK SPRAYER

Designed for reliable, worry-free operation, this 4-gallon sprayer features an internal No Leak piston pump that will not leak chemicals onto your back and pressurizes up to 150 psi. The built-in agitator can handle liquids, powders, and water-soluble solutions, and the agitator keeps them mixed, in solution, and ready to spray.



SMITH BACKPACK SPRAYER, 4 GAL - BATTERY POWERED

Designed for professional use and made to last!

The Smith Multi-Use 4 Gallon Lithium-Ion Powered Backpack Sprayer is the ideal applicator that provides consistent, repeatable performance. Spraying up to 50 gallons on one charge of the 18V lithium-ion battery, this sprayer has completely eliminated the need to ever pump again, saving time, energy...and money!



WHAT DOES IT TAKE TO CLASSIFY AS A MEMBER OF THE SUPER BENTS™?

Only an advanced generation, highly refined bentgrass variety, bred for genetically enhanced disease resistance and scientifically designed for use on closely maintained golf greens, fairways and tees can obtain classification as “One of the SUPER BENTS™.”

The elite, environmentally-friendly turf performance of SUPER BENTS™ are the result of meticulous testing by Seed Research of Oregon and DLF Pickseed that exceeds all industry standards and removes undesirable weeds and crop like Poa annua and Poa trivialis.

CURRENT SUPER BENTS™ CLASS:



BENTGRASS SEED

Product	Description	Unit Size
007	An advanced generation creeping bentgrass	11.3 kg
NEW 007XL	Newest Generation of the 007 line	11.3 kg
777 - Triple Seven	Higher turf density	11.3 kg
Flagstick	Creeping bentgrass for greens, tees, fairways	11.3 kg
Mackenzie	High density with cool season growth	11.3 kg
Macdonald	Developed for high resistance to many diseases	11.3 kg



SEED RESEARCH BLENDS

Product	Description	Unit Size
Champion GQ	Perennial Ryegrass Blend with POA Free tag	22.7 kg
Defiance XRE	Blend of rhizomatous turf type tall fescues	22.7 kg

TURF GRASS SEED BLENDS AND MIXES

Product	Description	Unit Size
3-way Kentucky Blue Fescue Blend	A blend of 3 varieties of Kentucky Bluegrass	25 kg
Fescue Blend	A blend of 4 varieties of Fescue grasses	25 kg
British Columbia Blends and Mixes		
Boulevard Blend	A low maintenance blend with 75% Fescue varieties	25 kg
Interior Park Blend	45% Perennial Ryegrass, 40% Kentucky Bluegrass, 15% Creeping Red Fescue	25 kg
Interior Tee Blend	80% Perennial Ryegrass, 20% Kentucky Bluegrass	25 kg
Interior Fairway Blend	60% Kentucky Bluegrass, 40% Perennial Ryegrass	25 kg
Shady Blend	40% Perennial Rye 30% Chewing Fescue 30% Creeping Red Fescue	25 kg
Park Blend	70% Perennial Rye 20% Chewing Fescue 10% Kentucky Bluegrass	25 kg
Alberta Blends and Mixes		
All Purpose Lawn Mix	A utility grass seed blend for general purpose use with 80% Fescue varieties	25 kg
Urban A	A coarse, low maintenance blend for interface areas and slopes	25 kg
Urban B	45% Creeping Red Fescue, 40% Kentucky Bluegrass, 15% Perennial Ryegrass	25 kg
Urban C	55% Kentucky Bluegrass, 25% Creeping Red Fescue, 20% Chewing Fescue	25 kg
Fairway Mix	60% Kentucky Bluegrass, 20% Perennial Ryegrass, 20% Fescue varieties	25 kg
Tee Box Mix	75% Kentucky Bluegrass, 25% Perennial Ryegrass	25 kg



EVERGRO HORTICULTURE SUPPLIERS

Product	Description	Analysis	Unit Size
Pro-Mix BX-Mycorrhizae	General purpose growing medium	N/A	3.8 CF
Pro-Mix HP-Mycorrhizae	High porosity growing medium	N/A	3.8 CF
Evergro Bulb Food	Bulb nutrients for blooming	3-15-8	2 kg
Smith Back Pack Sprayers	Assorted tank sizes	N/A	N/A
Felco Products	Assorted pruners and saws	N/A	N/A
Proflex Rakes	Assorted hard and flex rakes	N/A	N/A
Garant Equipment	Assorted shovels and rakes	N/A	N/A
Polygon NPK 14-14-14	Slow release fertilizer for ornamentals	14-14-14	20 kg
Polygon NPK 16-6-12	6 month slow release fertilizer for ornamentals	16-6-12	20 kg
Tree Fertilizer	Tree, Shrub and Hedge Fertilizer	18-4-8	10 kg



MAKE IT SAFE. MAKE IT CLEAR.

Ice melter should be used at the first sign of freezing rain or wet snow to prevent ice build-up. When applied in advance, ice melter is designed to prevent the formation of black ice. After snow accumulation, remove excess snow and apply ice melter to help remove ice or hard-packed snow.



AGRICO ICE MELTER

Premium formula for rapid ice & snow melting product with minimal residue. Safe to use on most surfaces use around lawns and gardens. Contains no traction compounds.

10 kg & 25 kg bags



EVERGRO ICE MELTER

Standard formula for safe and efficient melting to -7° while providing secure traction with natural minerals.

10 kg & 25 kg bags



BEAR TRACKS ICE MELTER

Value formula for easy application & efficient melting to -6° while providing secure traction with natural minerals.

10 kg & 25 kg bags

Nutrien Ag Solutions (Canada) Inc.
7430 Hopcott Rd. Delta BC V4G 1B6
800-663-2552



BRANCHES AND SALES ASSOCIATES

Delta Branch (Head Office)

7430 Hopcott Road Delta, BC
V4G

1B6 604.940.0290

Toll-free: 800.663.2552

Jerry Sihota

Sales Manager, Professional Turf
Division

Jerry.Sihota@nutrien.com

604.880.1492

Victoria Branch

630 Garbally Road Victoria, BC
V8T 2K2

250.381.2281

Toll-free: 866.381.2281

Chris Ainey

Technical Sales Representative,
Vancouver Island

Chris.Ainey@nutrien.com

250.418.1273

Kelowna Branch

260D Campion Street Kelowna,
BC V1X

7S8 250.765.0290

Toll-free: 866.765.0290

Ladd LeGeyt

Technical Sales Representative
Interior, West Kootenays

Ladd.LeGeyt@nutrien.com

250.215.4004

Calgary Branch

5018-68th Ave SE Calgary, AB
T2C 4N8

403.287.3988

Toll-free: 800.661.2991

Roy Hawkins

Technical Sales Representative,
Northern Alberta

Roy.Hawkins@nutrien.com

780.991.7322

Csaba Boros

TechnicalSalesRepresentative,
Central Alberta

Csaba.Boros@nutrien.com

403.669.9650

Trent Williamson

Technical Sales Representative,
Southern Alberta and East
Kootenays

Trent.Williamson@nutrien.com

403.540.5677

Abbotsford Branch

1454 Riverside Rd Abbotsford,
BC V2S 8J2

604.850.9500

Toll-free: 877.227.8222

Spencer Grundy

Technical Sales Representative
Lower Mainland, Fraser Valley &
Sea to Sky, Northern BC

Spencer.Grundy@nutrien.com

604.354.5363

