

Maximize your Partnership Points

BENEFIT GUIDE





**PARTNERSHIP
POINTS**
TURNING DAILY PURCHASES
INTO LASTING VALUE



The golf industry needs technologies that can propel the sport into the future. The challenge becomes how do we invest in tomorrow while we pay for today? The answer to this pivotal question is Partnership Points. Partnership Points were designed to turn daily purchases into lasting value.

SynaTek's Partnership Points Program allows Ride Agro participants to utilize their purchases to access technologies offered through Ecotronics. Ecotronics has technologies that range from labor tracking software to control panel technology that allow your course to manage water and nutrient applications through irrigation. Please contact your SynaTek relationship manager for a list of Ecotronics technology products available for your course.

A minimum Early Order purchase commitment of \$15,000 is required for participants to be eligible to earn Partnership Points from SynaTek.

Calcium Enhancement Technology



The importance of increasing calcium levels into a golf course's soil is not a new concept. Lime and gypsum products have long been the "go to" products for this practice. These products though can take time to solubilize or break down, be high in application rates and will likely get caught up in your equipment.

SynaTek's line of calcium enhancement products incorporates the latest in calcium technology production making them as much as 5 times more soluble and 4 times more available than traditional calcium products.

KEY PRODUCT FEATURES

- Highly Soluble
- Naturally Derived
- Little To No effect on pH

By utilizing both soil and water samples from your course, SynaTek's agronomists work with golf courses to develop calcium protocols specific to your golf course's needs.

If you are curious about how to change up your current calcium program or you are looking to incorporate a brand new calcium enhancement strategy into your course, SynaTek's Regional Agronomists want to help!

Contact SynaTek to learn more!



ABOUT SYNATEK

Headquartered in Souderton, Pennsylvania, SynaTek Solutions develops and manufactures products and technologies that serve the golf, lawn and landscape, agriculture and ice melt industries. Through its equipment technology arm, Ecotronics®, its partnership with Branch Creek® Organics and long-standing relationships with top-selling amendment manufacturers, SynaTek can offer customers the most complete line of products and services designed to minimize environmental impact and maximize profit.



Ca++TM

CALCIUM SOIL AMENDMENT



FIND YOUR BALANCE

Start improving the long term balance of your soil today with SynaTek's Ca++ Soil Enhancer. A proprietary blend of Xcaliber® and PhysioCal® products to make calcium in the soil more available.

4X More Available Than Gypsum Based Products

PRODUCT HIGHLIGHTS

- Fully derived from calcified seaweed and calcite
- Will not impact your soils pH
- 70 SGN sizing making the product ideal for greens and tees
- Strengthens the plants resistance to disease
- Proprietary biological blend added to promote dust control and improve handleability

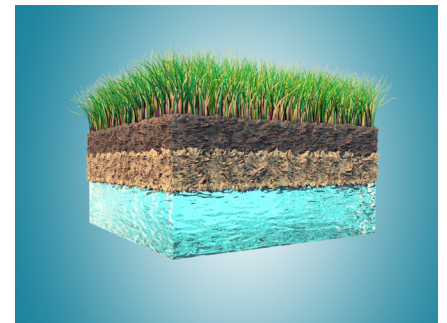
RECOMMENDED RATES

100 Lbs per 1,000 sq. ft. annually.

PACKAGING OPTIONS

- 50 Lb Bag
- 500 Lb Speed Bag
- 2,000 Lb Super Sack

*PhysioCal is a registered trademark of Timac USA, Inc.





PhysioCal® contains a naturally soft and porous marine calcium source called Calcimer. This unique porosity and surface area allows PhysioCal® to be 5 times more soluble and 4 times more available than other liming materials, saving time and money. Further, PhysioCal® is different from traditional lime based soil conditioners in that it contains the biostimulant Humistim. Together, the Calcimer and Humistim work to stimulate soil microbes to breakdown organic material into plant available nutrients, with an enhanced micro pH, and more complete nutrition with additional N, Ca, S, and Mg.

	PhysioCal®	PhysioCal Zero®	Gypsum®	Verde-Cal G®
Analysis	4-0-0	0-0-0	0-0-0	0-0-0
Calcium %	23%	23%	20%	22.5%
SGN	250 SGN, 125 SGN	70 SGN	250 SGN, 100 SGN	85 SGN & 185 SGN
Sieve Analysis Before Granulation	100% Passing 400 Mesh	100% Passing 400 Mesh	55% Passing 200 Mesh 80% Passing 50 Mesh 100% Passing 8 Mesh	75% Passing 40 Mesh 90% Passing 10 Mesh 100% Passing 4 Mesh
Active Ingredient	Calcified Seaweed	Calcified Seaweed	Calcium	Calcium
Micro Nutrients	Mg, S, B, Cu, Zn, Cl, Fe Na	Mg, S, B, Cu, Zn, Cl, Fe Na	S	S
Bio-Stimulants	Cytokinin, Gibberllins, Auxin, Humistart	Cytokinin, Gibberllins, Auxin, Humistart	Not on the label	Trihydroxycarboxylic Acid

APPLICATION RATES

Maintenance Rate:
Apply 50-100 Lb/Acre

PACKAGING OPTIONS

- 50 Lb Bag
- 500 Lb Speed Bag
- 1,000 Lb Super Sack

*PhysioCal is a naturally derived product and has calcium variations between 20-23%

*PhysioCal is a registered trademark of Timac USA, Inc.

*Verde-Cal G is a registered trademark of Aqua-Aid Inc.



ELECTRIFY YOUR SOIL

- Increases Cation Exchange Capacity
- Improves the Soil Structure
- Acts as a Long Term Calcium Insurance
- Safe for Season Long Applications
- 4 Times More Available than Traditional Liming Products

TYPICAL PROPERTIES

Specific Gravity.....	2.7
Hardness (Mohns' Scale).....	3.0
Bulk Density (Packed) Lbs./cu. Ft.....	89.0
Bulk Density (Loose) Lbs./cu. Ft.....	86.0

RECOMMENDED RATES

Monthly Rate:
5.5 Lbs per 1,000 sq. ft.
Aerification Rate:
11 Lbs per 1,000 sq. ft.

PACKAGING OPTIONS

- 50 Lb bag
- 500 Lb speed bag
- 2,000 Lb super sack

TYPICAL CHEMICAL ANALYSIS

Calcium Carbonate.....	90.0%
(As) Calcium Oxide.....	50.4%
(As) Calcium Element.....	36.0%
Magnesium Carbonate.....	7.0%
(As) Magnesium Oxide.....	3.3%
(As) Magnesium Element.....	2.0%
Acid Insolubles.....	2.0%
Iron Oxide (Fe ₂ O ₃).....	0.2%

TYPICAL PHYSICAL ANALYSIS


U.S. Standard Mesh	% Passing
10.....	100
20.....	100
60.....	8.0
200.....	2.0

*Xcaliber is a registered trademark of SynaTek LP.





Calcium Enhancement Technology

Product	Unit of Measure	Package Price	Purchase Increment	
Xcaliber (80 SGN)	50 Pounds	15.75	40	2
Xcaliber (80 SGN)	500 Pound Speed Bag	157.50	4	20
Ca++ (80 SGN)	50 Pounds	39.00	40	2
Ca++ (80 SGN)	500 Pound Speed Bag	390.00	4	20
PhysioCal Zero (70 SGN)	55.125 Pounds	70.00	40	3
PhysioCal (150 SGN)	50 Pounds	28.50	40	1
PhysioCal (150 SGN)	500 Pound Speed Bag	285.00	4	10
PhysioCal (250 SGN)	40 Pounds	16.80	40	1
PhysioCal (250 SGN)	500 Pound Speed Bag	210.00	4	7

Organic Products

BENEFIT GUIDE





PALEO

Early Earth Organics



GUARANTEED ANALYSIS

Soluble Potash (K ₂ O).....	5%
Humic Acid.....	16%
Fulvic Acid.....	9%
Ulmic Acid.....	3%
Total other ingredients (inert)...	67%

OTHER INGREDIENTS

Sulfur, Magnesium, Calcium,
Sodium, Iron, Manganese,
Copper, Zinc

10 MICRONUTRIENTS (PPM)

Sulfur (S) 2000
Magnesium (Mg) 2000
Calcium (C) 300
Sodium (Na) 300
Iron (Fe) 974
Manganese (Mn) 34
Copper (Cu) 4.0
Zinc (Zn) 9
Boron (B) 0.8
Molybdenum (Mo) 0.9

WHAT IS PALEO?

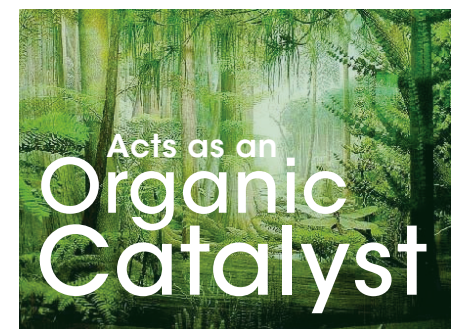
Paleo is a blend of Humic, Fulvic and Ulmic acid that acts as an organic chelator and microbial stimulator. It has a unique carbon matrix which includes a high concentration of trace minerals and organic acids. Humic acid enhances the plant's ability to take in essential nutrients and improves soil structure.

HUMIC ACID BENEFITS

- Increases soil carbon
- Improves plant health
- Improves germination and viability of seeds
- Chelates macro and micro nutrients to increase availability to the plant for a longer period of time
- Increases cation exchange capacity (CEC)
- Improves soil structure for better aeration and water movement

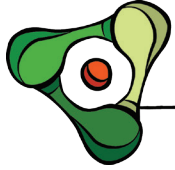
PALEO BENEFITS

- Humates feed the soil microbes which in turn release the nutrients such as nitrogen, phosphates and other trace elements
- **Humic acids** - enable the plants to extract nutrients from the soil
- **Ulmic acids** - stimulate and increase root formation and growth
- **Fulvic acids** - give plants strength to withstand stresses caused by pest, drought and mowing
- Natural chelating and complexing agent to help magnify nutrient absorption



HUMATE TRACE MINERAL CONTENT (PPM)

Aluminum 10	Nickel 2.0	Bismuth 0.5	Vanadium 0.5
Chlorine 8.0	Samarium 0.9	Erbium 0.8	Cadmium 4.2
Hafnium 0.9	Thorium 5.0	Palladium 0.5	Gadolinium 0.5
Rubidium 4.0	Barium 0.5	Silicon 60	Lithium 16
Terbium 1.0	Iodine 0.1	Titanium 0.1	Potassium 1000
Antimony 0.3	Niobium 1.0	Europium 0.9	Strontium 4.0
Chromium 0.3	Scandium 0.9	Lanthanum 1.0	Ytterbium 0.1
Holmium 0.5	Thulium 0.5	Phosphorus 30	Gallium 1.0
Neodymium 10	Beryllium 0.1	Silver 0.2	Lutetium 0.1
Ruthenium 0.5	Dysprosium 0.9	Tungsten 5.0	Praseodymium 10
Thallium 5.0	Iridium 0.9	Bromine 0.2	Yttrium 0.1
Arsenic 0.8	Osmium 1.0	Fluorine 5.0	Cerium 4.2
Cobalt 0.9	Selenium 1.0	Lead 0.6	Germanium 0.5
Indium 0.5	Tin 0.3	Platinum 0.5	Rhenium 0.5



Complete Nucleus
Advanced Soil Probiotics



GUARANTEED ANALYSIS

Soluble Potash (K₂O).....12%
Derived from: Molasses

NON-PLANT FOOD INGREDIENTS

Active Ingredients:
Azotobacter vinelandii
300,000 CFU/ml. minimum
Clostridium pasteurianum
300,000 CFU/ml. minimum

APPLICATION RATES SHAKE / AGITATE before use

Apply during growing season when soil temperatures are above 45 degrees. Mix with water at no less than 1 quart per 1000 sq. ft. or 11 gallons per acre.

Turf (Golf) Tees and Greens:

- Initial Application: 2 oz. per 1,000 sq. ft. (2.75 quarts acre)
- Maintenance: 1 oz. per 1,000 sq. ft. (1.4 quarts acre) every 21-30 days

Turf (Residential, Commercial + Fairways):

- Initial Application: 1.5 oz. per 1,000 sqft (2.0 quarts acre)
- Maintenance: .75 oz. per 1,000 sq. ft. (1 quart acre) every 30-45 days

WHAT IS NUCLEUS COMPLETE?

Nucleus Complete is produced by a fermentation process utilizing a consortium of microbes that promotes a highly productive microbial system in the soil.

**Promotes
the Absorption of
Nitrogen**

Nucleus Complete can be used in conjunction with fertilizer to promote the absorption of nitrogen and critical minerals in order to increase the level of bioavailable nutrients to the root system. Nucleus Complete provides several unique advantages including, industry leading shelf-life stability and efficacy across many soil and environments.

BENEFITS OF NUCLEUS COMPLETE

- Supports root biomass formation resulting in a more vigorous root system.
- Contains a unique, complex and multifunctional microbial ecosystem to support a healthy soil microbiome
- Application to plants tips the rhizosphere microbiome in favor of beneficial microbes
- Creating a rhizosphere with robust beneficial microbes enhances the plants' ability to overcome stresses
- Includes microbes from different microbial families – including aerobic and anaerobic microbes – to deliver a broad range of benefits
- Proprietary co-fermentation process of the consortium results in very stable product





GUARANTEED ANALYSIS

Bacillus Mucilaginosus.....	1.5x10 ¹⁰ cfu/Lb
Bacillus Subtilis.....	1.6x10 ¹⁰ cfu/Lb
Bacillus Megaterium.....	8.0x10 ¹⁰ cfu/Lb
Bacillus Licheniformis.....	8.0x10 ¹⁰ cfu/Lb
Bacillus Simplex.....	8.0x10 ¹⁰ cfu/Lb
Glomus Intraradices	
Endomycorhizae.....	25,000 propagules/Lb
Humic Acid.....	12%
Fulvic Acid.....	4%
Amino Acids.....	7%

APPLICATION RATES SHAKE / AGITATE before use

In depleted or sandy soils with low CEC we recommend pairing Nucleus Diversity with Paleo Humic Acid. Apply product when soil temperature is above 50°F.

Turf (Golf) Tees and Greens:

- Thatch Reduction: 5.1 oz per acre, apply every 21-30 days
- Maintenance: 3.4 oz per acre, apply every 21-30 days

Ornamentals New Installation:

- Initial Application 6.8 oz. per 200 gallons of water. Drench soil to saturation or 1 gallon of finished product per 1 inch DBH.
- Follow up application (4-6 weeks after initial) 3.4 oz. per 200 gallons of water. Drench soil to saturation or 1 gallon of product per 1 inch DBH.

WHAT IS NUCLEUS DIVERSITY?

Nucleus Diversity is a complex of microbes and known soil plant amending ingredients combined with critical enzymes and the most effective microbe food sources available. The combination of these ingredients will make indigenous beneficial microbes explode in numbers in the soil. This will improve organic matter in the soil, growth patterns in plants, and fruit quality.

There are **NO** Fillers

100% of the ingredients have an active purpose for your soil and plants.


BENEFITS OF NUCLEUS COMPLETE

- Inoculates soil with diverse populations of bacteria and fungi beneficial to soil and plant life.
- Stimulates the growth and reproduction of indigenous microorganisms.
- Invigorates root growth.
- Builds higher protein and sugar levels in plants.
- Improves photosynthetic performance.
- Enhances resistance to drought, pests, and disease.
- Excellent for organic applications.
- Contains Aerobic Bacteria to help diminish black layering in greens.
- Beneficial microbes feed on carbon sources decreasing thatch issues.
- Contains Endomycorhizae to stimulate increased root mass and depth.
- SP technology for broad efficacy over various soil structures and geographic regions.





Organic Products

Product	Unit of Measure	Gallon Price	Package Price	Purchase Increment	
Paleo	1 Gallon	45.00	45.00	4	4
Nucleus Complete	2.5 Gallons	183.78	459.46	2	37
Nucleus Diversity	5.3 Pounds	-	1,546.25	1	120



Wetting Agents

BENEFIT GUIDE



Healthy soil requires fewer inputs and less watering, lowering costs without jeopardizing the quality of playing surfaces. Healthy soil also reduces the “see problem, spray problem” approach which treats the symptoms, without addressing the cause of the problem.

Working alongside the industry’s leading scientists and formulators, SynaTek introduced its line of sustainable water solutions, Volution™. Designed to promote healthy turf with fewer inputs, turf managers can expect better efficiency from their most valuable resource; water, all while increasing the quality of their turf.

*Volution is a registered trademark of SynaTek LP

SynaTek believes that what is in your water directly affects the quality and health of your soil.

If you are curious about how to promote healthy soil with fewer inputs SynaTek’s Regional Agronomists want to help.

Contact SynaTek to learn more!





VOLUTION™ MAXX

PENETRANT/HOLDER



APPLICATION RATES

- Apply Volution Maxx at 4 oz. per 1,000 sq. ft. for performance up to 30 days.
- Apply Volution Maxx at 6 oz. per 1,000 sq. ft. for performance up to 45 days.
- Apply Volution Maxx at 8 oz. per 1,000 sq. ft. for performance up to 60 days.
- Apply Volution Maxx at 8 oz. per 1,000 sq. ft. in split applications, 2 weeks apart (for a total of 16 oz.), for performance up to 90 days.

PACKAGING

2 x 2.5 Gallons per Case
275 Gallon Tote

WHAT IS VOLUTION MAXX?

Volution Maxx is a flexible soil surfactant blend that allows turf managers to customize their water management and irrigation programs. Volution Maxx increases the infiltration of water into the soil while uniformly holding it in the rootzone over time. Volution Maxx provides performance across a variety of turf and soil types.

VOLUTION MAXX IS DESIGNED FOR USE ON GOLF COURSES, ATHLETIC FIELDS AND RESIDENTIAL OR COMMERCIAL TURF, UNDER THE SUPERVISION OF GOLF COURSE SUPERINTENDENTS, SPORTS TURF MANAGERS OR PROFESSIONAL LANDSCAPE CONTRACTORS.

COMPETITIVE PRODUCTS

Sixteen 90*, Conduit 90*, Fleet*, Soaker Plus*.

*Sixteen 90 is a registered trademark of Aquatrols

*Conduit 90 is a registered trademark of AQUA-AID, INC.

*Fleet is a registered trademark of Harrell's

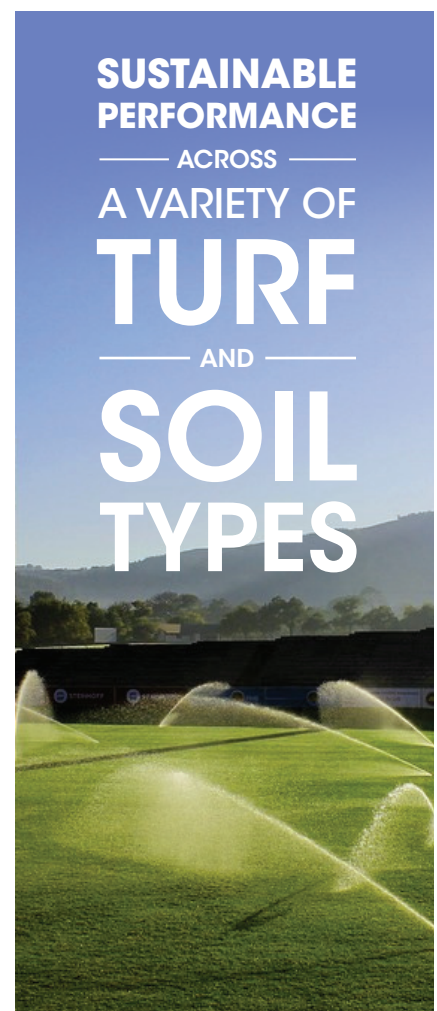
*Soaker Plus is a registered trademark of Helena Holding Company

COMPOSITION

100% Proprietary Blend of Polymeric Surfactants

USES

- Prevent or cure localized dry spot
- Manage water in coarse-textured soils
- Help plants survive drought
- Improved irrigation efficiency





VOLUTION™ P/C

PENETRANT/CONDITIONER



USE RATES & INTERVALS

As a soil penetrant, apply Volution P/C throughout the growing season, starting prior to plant stress. As a water conditioner, used in a sprayer or Ecotronics Mix Transfer System, Volution P/C improves the performance of herbicides, plant growth regulators, fungicides, insecticides and liquid fertilizers, affected by pH or water quality.

WHAT IS VOLUTION P/C?

Managing water in the root zone of turf and ornamental plants represents a challenge for turfgrass managers, ornamental growers and landscape contractors. Volution P/C reduces the interfacial tension between water and the plant and soil surface, allowing water to spread on the plant leaf blade and improving the penetration of irrigation and rainfall into and throughout the plant root zone.

DESIGNED BY SYNATEK, FOR APPLICATION THROUGH AN ECOTRONICS® INJECTION SYSTEM, VOLUTION P/C IS A UNIQUE FORMULATION OF SURFACTANT CHEMISTRIES AND WATER CONDITIONERS FOR USE ON GOLF COURSES, RESIDENTIAL OR COMMERCIAL SITES, SPORTS COMPLEXES, AS WELL AS LANDSCAPES, NURSERIES AND ORNAMENTAL PLANTINGS.

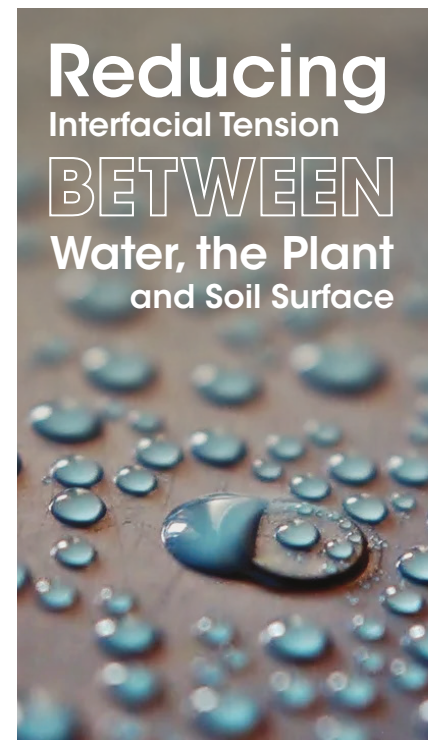
FEATURES AND BENEFITS

- Injected through Ecotronics® Injection System – accurate and easy to apply
- Reduces water’s surface tension – reduces runoff and improves plant health & vigor
- Conditions hard water – Improves performance of water and soil active chemistries
- Labeled for use on turf and ornamentals – flexible

ECOTRONICS INJECTION SYSTEM

	Ounces Per Acre	Micrometer Setting
Low	20	49%
Medium	30	73%
High	40	98%

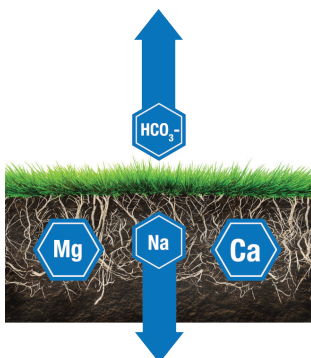
*Inject Volution P/C prior to the onset of plant stress and make subsequent applications at 21 to 30 day intervals, or as environmental conditions warrant.





SOIL RESTORATION

In many cases, soil issues start with irrigation water. Volution Affect can be used as a key tool to restore the ratio of Ca, Mg, and Na in the soil. Excess sodium can degrade the soil structure and displace other key elements from the soil particle. Volution Affect will assist in flushing out undesirable Na and will "burn off" bicarbonates.

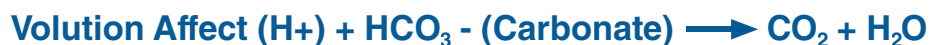


WHAT IS VOLUTION AFFECT?

Volution Affect (15-0-0 16% S) is a urea-sulfuric reaction product, produced in our state-of-the-art, controlled reaction facility. Volution Affect is designed as a spray equipment cleaner, soil conditioner, water treatment product and irrigation system cleaner. It is also a supplemental supply of urea-based nitrogen and sulfur. Volution Affect contains 15% urea nitrogen and 16% sulfur while providing a safer alternative to pure acid products.

Poor quality irrigation water?
 Poor cation exchange?
 Not getting efficiency out of Mg and Ca amendments?
 Reduced porosity and drainage?
 High sodium and/or bicarbonates?

VOLUTION AFFECT IS YOUR ANSWER!




FEATURES AND BENEFITS

- Neutralize the negative effects of high bicarbonate and carbonate levels in irrigation water and the soil solution
- Lower pH of irrigation water and soil water
- Maintain the solubility of Ca and Mg in irrigation and soil water
- Dissolve calcium carbonate and magnesium carbonate salts on the surface (crusts) and in the soil profile
- Improve the ability of soil-applied Ca-based amendments to produce soluble Ca
- Flocculate dispersed colloidal-sized clay particles
- Improve percolation and infiltration characteristics of the soil profile
- Clean and remediate clogged irrigation lines and emitters

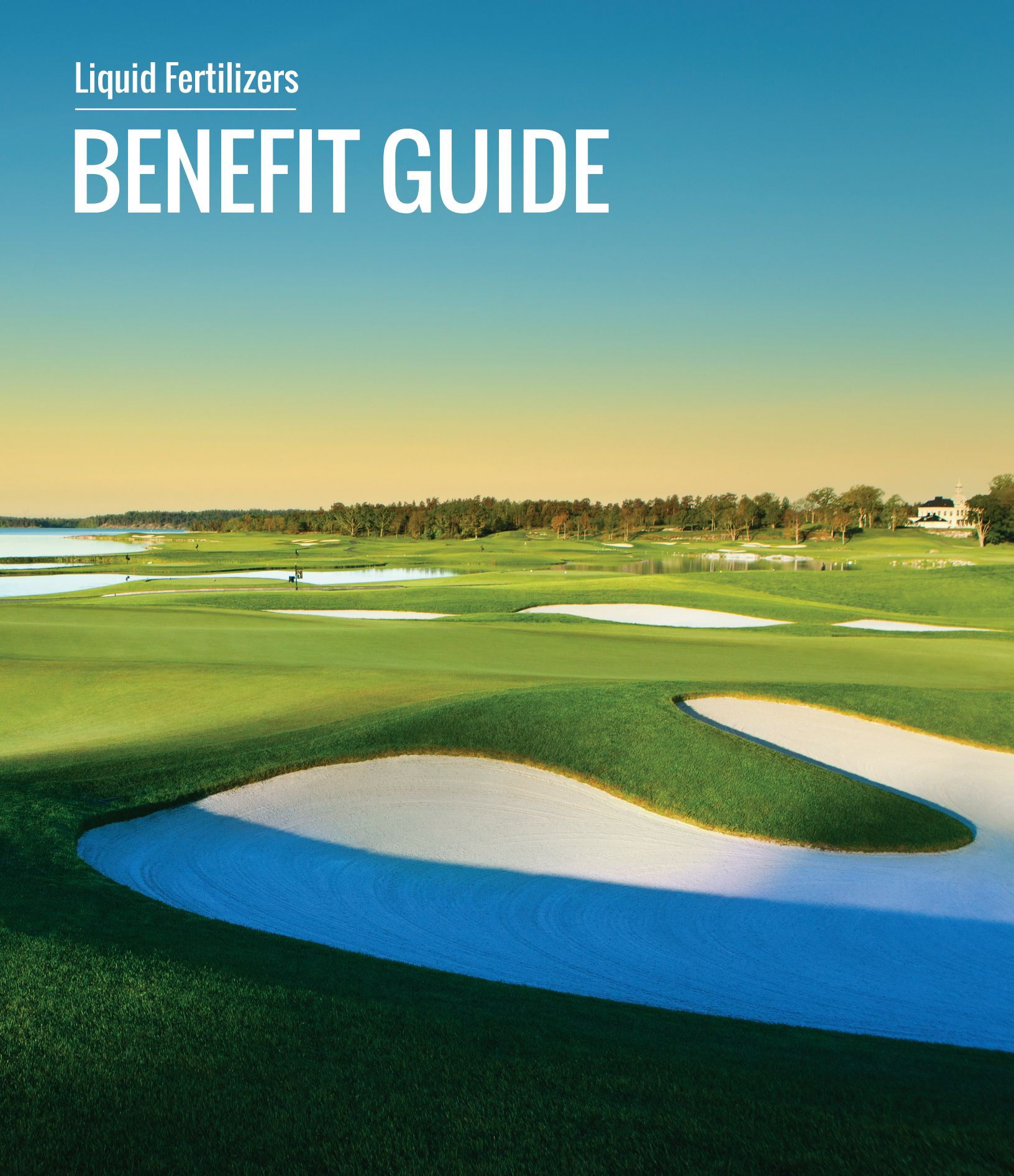


Wetting Agents

Product	Unit of Measure	Gallon Price	Package Price	Purchase Increment	
Volution P/C	2.5 Gallons	28.80	72.00	2	2
Volution P/C	20 Gallon Drum	27.10	542.00	1	29
Volution P/C	275 Gallon Tote	25.10	6,900.00	1	519
Volution Maxx	2.5 Gallons	40.00	100.00	2	5
Volution Maxx	20 Gallon Drum	38.85	777.00	1	35.50
Volution Maxx	275 Gallon Tote	37.96	10,438.00	1	480
Volution Affect	156 Gallon Tote	12.95	2,020.20	1	156


Liquid Fertilizers

BENEFIT GUIDE





Liquid Fertilizers

Product	Unit of Measure	Gallon Price	Package Price	Purchase Increment	
10-0-10 FertAminos (50% SCRN)	250 Gallon Tote	14.00	3,500.00	1	319
14-4-9 FertAminos (50% SCRN)	250 Gallon Tote	14.60	3,650.00	1	328
16-0-8 FertAminos (50% SCRN)	250 Gallon Tote	13.36	3,340.00	1	300
9-18-5 Turf Flo	250 Gallon Tote	8.00	2,000.00	1	156
16-3-3 Turf Flo (50% CRN)	250 Gallon Tote	12.71	3,177.50	1	280
17-0-5 Turf Flo Quick Release	250 Gallon Tote	4.75	1,187.00	1	95
19-0-4 Turf Flo (35% CRN) w/Nucleus Complete	250 Gallon Tote	8.15	2,037.50	1	168
20-0-3 Turf Flo (50% SCRN)	250 Gallon Tote	10.66	2,665.00	1	359
20-0-5 Turf Flo (35% CRN) (2% Fe)	250 Gallon Tote	12.66	3,165.00	1	299
28-0-0 Turf Flo (72% CRN) (100% NBN-X)	250 Gallon Tote	9.25	2,312.00	1	112

*Most products also available in 2.5 gallon jugs and 55 gallon drums

*FertAminos is a registered trademark of SynaTek LP.



