

PROBIOTICS
& INOCULANTS

FERTILIZERS
& AMENDMENTS

WORM CASTINGS,
SOILS & MEDIAS

GROWTH
ENHANCERS

WEED KILLERS
(HERBICIDES)

TICK, MOSQUITO
& FLEA CONTROL

BEETLE & GRUB
CONTROL

ANT, BUG &
SLUG CONTROL

PEST INSECT
CONTROL

DISEASE
CONTROL

ANIMAL
REPELLENTS

SOIL pH
CONTROL

STICKERS, SPREADERS,
STERILIZERS, MISC.

ECO- & PET-
FRIENDLY ICE MELTERS



GREEN EARTH
Ag&Turf®
LLC

2024 CATALOG

PROVEN & EASY **ORGANIC PRODUCTS**

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GREEN EARTH Ag & Turf®

For Wholesale Account Sign-ups & Bulk Pricing:
Scan the QR, Call/E-Mail Us or See Our Website

<http://www.GreenEarthAgAndTurf.com/pages/ws-account-login>

Welcome to the *Final* Printed **2024** **GREEN EARTH Ag & Turf** Catalog!

Letter From President Joe Magazzi

Dear Friends and Colleagues,

I'm thrilled to unveil our 2024 catalog, marking a special moment as it represents the culmination of our printed catalog series. What makes this release even more exciting? We've undergone a transformation of our wholesale website, ensuring a seamless transition for you to access new products with real-time, updated pricing.

On our revamped website, you can now request a login to explore our entire product range, discover personalized pricing, and effortlessly place orders online. Scan the QR code to the right or go to www.GreenEarthAgAndTurf.com/pages/ws-account-login to apply for an account. While we embrace the convenience of the digital platform, please know that our dedication to exceptional customer and technical service remains unwavering; please reach out to us via phone or email as we still provide the top customer and technical service in the industry.



Looking forward, our 2024 catalog showcases an array of exciting products, also readily available on our website. From innovative nutrients and fertilizers to advanced disease and pest control solutions, and our expanded offerings for indoor growing. For home lawn, garden and indoor growing, we've not only introduced new products but also made comprehensive information on both old and new items much more easy to access.

We remain committed to delivering industry-leading products and service, and promise to work hard to continue to innovate and lead in the fields of landscape, agriculture, horticulture, and arbor care.

Best Wishes for a Happy, Healthy and Successful 2024!

Joe Magazzi, MS
President, Founder & Owner

GREEN EARTH Ag & Turf
GROWITNATURALLY.com

A handwritten signature in blue ink, reading "Joe Magazzi", with a stylized flourish at the end.



What We Do For You



GREEN EARTH Ag & Turf is a family owned and operated wholesale company specializing in eco-friendly and organic products for plants, trees and turf. Our mission is to cultivate the widespread use of eco-friendly growing practices that reduce the use of harmful or toxic chemicals. We help our customers achieve their goals through practices that build plant and soil health by utilizing biologicals, organic fertilizers and a large selection of proven organic products.

We Serve All Green Industry Markets

Landscape • Turf • Golf • Agriculture • Horticulture • Indoor Growing



The Best Prices With The Top Customer & Technical Support In The Industry

As scientists and product experts, we can help you with every aspect of implementing hybrid or full organic treatment programs. This catalog is the culmination of over twelve years of product research and implementation; it only contains products that are scalable, stable and easy to use. It does not contain products that require time-consuming brewing or lots of preparation. These products were chosen to help you significantly reduce inputs and costs while improving your end results.



GREEN EARTH Ag & Turf
Your *R&D Department*

Our Story & History



GREEN EARTH
Ag&Turf
LLC

Once Upon a Time...

Back in 2009, Emily and Joe Magazzi were both living happy lives as research scientists in the biotech industry, developing cures for a host of human diseases such as cancer and bird flu. Emily was 8 months pregnant with their only child (soon to be Marcus) and was planning on staying home after he was born; Joe planned on continuing as a project manager developing novel human medicines that were entering clinical trials. In one day, all of that changed. The markets crashed in 2009, and the company Joe worked for lost funding for his research projects. Emily came home that day, less than a month away from having a child, to find out that her husband was laid off. With no jobs available, Joe was now a stay-at-home parent and Emily went back to work.

A month after Marcus was born, a friend contacted Joe to see if he would want to sell a biological product for plants, trees and turf because of his extensive background in microbiology. Without any type of background in business or sales, Joe thought "Sure, it sounds like a good idea." It is said that ignorance is bliss ...thankfully ignorance paid off. And thus **GREEN EARTH Ag & Turf** was born with just one case of a novel product (Quantum Growth) and no idea what was to come...and we have not stopped growing, expanding products and working for you ever since!

Now...

From the dream of a scientist with no business background, we have now grown into the U.S. leaders in organics with national distribution, two on line stores and an ever-expanding catalogue of the top products with a full crew to help you achieve your goals.

THE LITTLE COMPANY THAT COULD - AND DID!



Passion combined with scientific expertise and an honest approach has led to client successes never before seen in the green industries.

**ORGANICS ARE NO
LONGER A COMPROMISE**

The GREEN EARTH Ag & Turf Team

Joe Magazzi

President, Founder, Owner



Since 2009, Joe Magazzi has been the president, owner and co-founder of **GREEN EARTH Ag & Turf**. Joe also promotes and teaches about the use of organic or natural products in the green industries. Joe is a frequent invited speaker, radio interviewee and writer for on-line publications and trade magazines (such as Turf Magazine); as well as a former adjunct professor in the SUNY University System. Joe has a Master's Degree in genetics (with a microbiology focus) and spent 20 years as a research scientist with work published in multiple scientific journals including *The New England Journal of Medicine*.



Vin Amendola

Operations Manager



Renee Bobko

Logistics Assistant



Jeremy Demetrio

Logistics Assistant



Marcus Magazzi

Boss Man In-Training

Our Pledge To You, Our Valued Customers

- 👁️ We offer natural and organic products that are the *best available* options in their class in terms of efficacy with the *least toxicity* to people, animals, the environment and beneficial organisms.
- 👁️ We focus on the best solutions for *your success* and will offer *honest* assessments and real expectations of product performance.
- 👁️ We offer the most competitive pricing in the green industries.
- 👁️ We back our products with *the industry's best* customer & technical support.

**We Treat You Like Our Own Family and Provide
THE BEST Customer & Technical Service in the Industry!**

Our Products & Programs



THE TOP PRODUCTS

GREEN EARTH Ag & Turf is the leading distributor of organic products to professionals across the United States: *THE TOP* landscapers, sports turf managers, farmers, greenhouse or indoor growers, golf course superintendents and retailers all benefit from using our products. Our partner on line stores, GROWITNATURALLY.com & GROWITINDOORS.com, now carry the same great professional products in more convenient sizes for home lawn & garden and indoor growing enthusiasts. Now everyone has access to the best organic products available.

Our wholesale price sheet can be scanned from the front of this catalog. Call or e-mail us to request updated pricing, quotes or a change to your discount structure as your business changes and grows. We now offer **“Dealer”** pricing for those that resell and **“Front and Back”** pricing for operations that both sell to retail customers (in the Front) and grow themselves (in the Back).



TOP TURNKEY PROGRAMS

In addition to our individual products, **Green Earth Ag & Turf** has turnkey programs that have been developed in partnership with the top organic applicators throughout the country. Tested and implemented for more than a decade, these programs are easy (four simple applications), economical, profitable and proven to be effective time and again by the leaders in the organic industries. We take the time to individualize programs specifically for your needs and company; all of our programs are adaptable and are easily modified for use as hybrid programs with some synthetic inputs. Call or e-mail us and we will take the time to develop your program!

Green Earth Program

Standard Program

Our Expertise & Experience for You... Real Science from Real Scientists

Probiotics & Soil Inoculants

The Quantum Growth® series

What is Quantum Growth? Why Are Soil Probiotics Important?

Soil contains nutrients, water, air and organics (microbes). Traditionally, growers address the first three components through fertilization, irrigation and aeration. However, the most vital component of soil, the living part, is often neglected and sometimes even destroyed with pesticides. **Quantum Growth** (or Microbe Life) contains live microbes (probiotics) to specifically address this critical part of soil that other treatments cannot. The tremendous benefits of probiotics for our own digestive health are well known. Plants are even more dependent on a strong and diverse microbial population for their nutritional and health needs than we are.

Quantum Growth is the original liquid probiotic for plants, trees and turf. In fact, Ecological Laboratories, the company and technology behind these products, has been the leader in fermentation for over 40 years. This consortium of beneficial microbes has been validated through scientific literature and field trials. These studies prove that Quantum Growth provides plants, trees and turf with numerous benefits including: better health, better yields and better aesthetics. In addition, applications of **Quantum Growth** will allow for reductions in fertilizer use, plants' increased resistance to physical damage, better drought tolerance and a reduction in the need for watering.



Quantum Growth and Microbe Life supplement and rebuild biology in ways that no other product can even come close to, and we have tested many others.

Of all the product lines in this catalog, **Quantum Growth**, and its sister brand Microbe Life, remain the "game changers" that make all other products more effective!



SCIENTIFICALLY PROVEN TO INCREASE HEALTH AND YIELDS WHILE REDUCING INPUT COSTS.

Yield Increases



Healthier Growth



Best Practice Quantum Growth

Best Practice Quantum Growth

Root Growth



Input Reductions



Best Practice Quantum Growth

Best Practice Quantum Growth

Quantum Growth vs. Compost Tea

Quantum Growth is not a compost tea; in fact, it takes all the positives that you would try to get from a compost tea without the many negatives and without any of the precious time needed to produce them. Quantum Growth is a *controlled* biological (that is, it is made with known natural strains and is not dependent on random biology) which is supported by guaranteed counts and analysis from third-party labs – so you know exactly what is in every bottle. Each batch is also tested for pathogens, so you know exactly what is *not* in every bottle.

Stable, Concentrated, Cost Effective

Quantum Growth is stabilized with naturally produced gases; no chemical inhibitors are added. One gallon of Quantum Growth covers an entire acre at about \$1.00 per 1,000 square feet, and is shelf stable for over 3 years with no refrigeration or special storage required!

Proven Over 40+ Years and in Trials

Quantum Growth is wholly produced in the USA and is extensively proven with over 40 years of results and R&D. Quantum is applied on leading properties and pro turfs such as Disney, the Milwaukee Brewers, Miami Dolphins, Jacksonville Jaguars and multiple PGA courses. Quantum is also the choice of trend-setting farmers and landscape professionals. Multiple university studies validate this technology - all available on our website.

No other product on the market meets such stringent safety, quality & performance criteria.

Probiotics & Soil Inoculants

Turf
Agriculture
Horticulture

The Quantum Growth[®] Series

GAME CHANGER



Quantum-Organic Total[™]



The All-Purpose or "Total" product in the Quantum Growth series for full-spectrum use. Total is for indoor and outdoor use or in hydroponic systems, can be used as a foliar spray or a drench, and can be applied on plants, turf and trees. Quantum-Total contains the widest variety of bacteria for a perfectly balanced microbial consortium plus organic humates.

8 Ounce (Makes 8 Gallons / Covers 2,750 sq. ft.)

1 Quart (Makes 32 Gallons / Covers 11,000 sq. ft.)

1 Gallon (Makes 128 Gallons / Covers 1 Acre)

Bulk: 2.5, 5, 30, 55 & 275 Gallon Bulk Sizes Also Available



Quantum-Organic Light[™] & VSC[®]



These products represent the original in the Quantum Growth Organic series. They contain varying mixtures of the core photosynthetic, nitrogen-fixing microbe *Rhodopseudomonas palustris* that is unique to the Quantum Growth series as well as additional *Bacillus* strains and a humic acid component (VSC only) to allow for use in heavier foliar sprays as well as drenches. For those who need certified organic products, Quantum-Organic Light and VSC are OMRI Listed.

1 Gallon (Makes 128 Gallons / Covers 1 Acre)

Bulk: 5, 30, 55 & 275 Gallon Bulk Sizes Also Available



Quantum-Orchid[™]



Uses a similar formulation as Quantum-Total, specifically for use on orchids. Performs multiple key functions to enhance orchid growth, blooms, vigor and health.

8 Ounce (Makes 8 Gallons / Covers 2,750 sq. ft.)

1 Quart (Makes 32 Gallons / Covers 11,000 sq. ft.)



MICROBE-LIFT®

Hydroponics
Aquaponics
Home Use

Photosynthesis Plus

FOR HOME USE



Contains the same core technology as Quantum-Organic Light, but adapted for indoor applications, hydroponics or aquaponics. With the same photosynthetic, nitrogen-fixing microbes as Quantum-Organic Light, Photosynthesis Plus enhances plant functions in both soil and soil-less substrates. Enhanced photosynthesis allows the capture and utilization of energy more efficiently, speeds uptake and distribution of essential nutrients, promote plant vigor and reduces input costs with higher yields and quality.

1 Pint (Covers 3,000 sq. ft.) • **1 Quart** (12,000 sq. ft.) • **1 Gallon** (1 Acre)
2.5 Gallon (2.5 Acre) • **Bulk Sizes: 30, 50 and 275 Gallon Sizes**

Foliar Spray & Root Dip

FOR HOME USE



Very similar technology to Quantum-Total but adapted for smaller applications and hydroponics/aquaponics. Takes the photosynthetic cultures of Photosynthesis Plus/Quantum-Organic Light and adds organic humates plus a wider array of microbial cultures. Great flexibility as a foliar or drench.

1 Pint (Covers 3,000 sq. ft.) • **1 Quart** (12,000 sq. ft.) • **1 Gallon** (1 Acre)
5 Gallon (5 Acre) • **Bulk Sizes: 30, 50 and 275 Gallon Sizes**

Vegetable & Fruit Yield Enhancer

FOR HOME USE



Same core technology as Quantum-Total, but designed specifically to enhance the yield of vegetable and fruit by aiding a plant's ability to absorb nutrients more efficiently. Speeds seed germination, root development and shoot outgrowth.

1 Pint (Covers 3,000 sq. ft.) • **1 Quart** (12,000 sq. ft.) • **1 Gallon** (1 Acre)

AQUAPONICS
SAFE



Nite-Out II™

Specifically for AQUAPONICS

Specifically formulated for use in aquaponics, this highly-specialized microbial consortium of nitrifying bacterial cultures is unique for eliminating toxic ammonia in tanks via the natural biological process of nitrification. Nite-Out II contains select strains of *Nitrosomonas*, *Nitrospira* and *Nitrobacter*. Speed up tank cycling and avoid dye-offs with this unique product line!

8 Ounce (475 Gall.) • **1 Pint** (Treats 950 Gall.) • **1 Quart** (1,900 Gall.)
64 Ounce (3,800 Gall.) • **1 Gallon** (7,600 Gall.) • **5 Gallon** (38,000 Gall.)

Probiotics - Indoor Inoculants

Hydroponics
& Home Use



MAMMOTH

NEW
BRAND

NEW
PRODUCT



Mammoth Myco

FOR
HOME
USE

A mycorrhizal amendment that promotes the development of strong root systems, enhancing nutrient uptake and increasing overall plant mass.

Ingredients: rhizosphere microbes, dextrose, zeolite.



4 oz. • 8 oz. • 16 oz. • 32 oz.

NEW
PRODUCT



Mammoth Silica

FOR
HOME
USE

An elemental-silicon additive that will fortify the cellular structure of your plants and foster healthy and strong stem growth.

Ingredients: calcium nitrate, sodium molybdate, and potassium silicate.



MAMMOTH SI



CONTROL

250 ml • 500 ml • 1000 ml

NEW
PRODUCT



Mammoth P Nutrient Liberator

FOR
HOME
USE

A microbial enhancer that improves phosphorus availability in soil. Containing a proprietary blend of soil microorganisms, Mammoth P Nutrient Liberator will boost the phosphorus cycle, leading to a more bountiful yield.

120ml • 250ml • 500ml • 1000ml • 1 Gallon

Fertilizers & Amendments

LIQUID FERTILIZERS



Neptune's Harvest fertilizers are formulated from fresh North Atlantic Fish and Kelp and processed with a unique cold process that protects the vitamins, amino acids, enzymes and growth factors that naturally occur in sea life.



Fish & Seaweed Blend, Nept. Harvest (2-3-1)



An organic fertilizer made from a perfect blend of fish hydrolysate and seaweed (kelp) for a complete and effective organic fertilizer providing the best of both products. Growers using our Fish-Seaweed Blend fertilizer on a regular basis have reported increased marketable yields, improved shelf life on fruits and vegetables, and better quality plants and turf.

1 Pint (Covers 2,500 sq. ft.) • **1 Quart** (5,000 sq. ft.) • **1 Gallon** (1/2 Acre)
5 Gallon (2.5 Acres) • **Bulk Sizes: 55 Gallon Drum & 275 Gallon Tote**



Seaweed Plant Food, Nept. Harvest (0-0-1)



An organic source of over 60 naturally occurring major and minor nutrients and amino acids. Seaweed has been found to increase plant hardiness and resistance to adverse environmental conditions. The naturally occurring growth-promoting substances (Auxins, Cytokinins, Gibberellins) enhance plant development, color and vigor. When used as a seed inoculant, seaweed increases and accelerates germination and enhances rapid root development.

1 Pint (Covers 2,500 sq. ft.) • **1 Quart** (5,000 sq. ft.) • **1 Gallon** (1/2 Acre)
5 Gallon (2.5 Acres) • **Bulk Sizes: 55 Gallon Drum & 275 Gallon Tote**



Fish Hydrolysate Fertilizer, Nept. Harvest (2-4-1)



Neptune's hydrolyzed fish is processed by the same standard cold process to retain valuable nutrients in a form that is readily available for plants' intake. Unlike fish emulsions, Neptune's Harvest's fish hydrolysate retains the natural fish proteins and oils and has no unpleasant odor.

1 Pint (Covers 2,500 sq. ft.) • **1 Quart** (5,000 sq. ft.) • **1 Gallon** (1/2 Acre)
5 Gallon (2.5 Acres) • **Bulk Sizes: 55 Gallon Drum & 275 Gallon Tote**

Liquid Turf Fertilizers: For Optimal Results Use With Quantum Growth - Ask About Our Full Programs!

No Phos.



Turf Formula, Nept. Harvest (2-0-2)

An environmentally-friendly fertilizer containing the perfect blend of nutrients for all turf types and soil replenishment. Specifically designed for areas where phosphorus is prohibited by law or not wanted. This product is a storehouse of over 60 major and minor chelated nutrients plus amino acids.

Ingredients: Hydrolyzed North Atlantic Fish, Phosphoric Acid, Seaweed (A.Nodosum), Potassium Hydroxide, Molasses, Humic Acid, Yucca Extract.

1 Gallon (Covers 1/2 Acre) • **5 Gallon** (Covers 2.5 Acres)

Bulk Sizes: 55 Gallon & 275 Gallon Tote



Lawn Starter, Nept. Harvest (2-3-2)

Developed specifically for turf care professionals looking to build healthy turf with a wide range of macro- and micro-nutrients, growth factors and organic matter. Contains phosphorus to help establish newly seeded lawns.

Ingredients: Hydrolyzed North Atlantic Fish, Phosphoric Acid, Seaweed (A.Nodosum), Potassium Hydroxide, Molasses, Humic Acid, Yucca Extract.

1 Gallon (Covers 1/2 Acre) • **5 Gallon** (Covers 2.5 Acres)

Bulk Sizes: 55 Gallon & 275 Gallon Tote

No Phos.



Influence, Org. Appr. (Similar to NH. Turf Formula w/o Fish)

An environmentally-friendly fertilizer containing a perfectly balanced mix of nutrients for all your turf, plant and tree needs. For use with No-Phos laws.

Ingredients: Humic acids, seaweed extract, yucca extract, iron sulfate, copper sulfate, zinc sulfate, manganese sulfate, cobalt sulfate, boric acid, sodium molybdate, lactic acid cultures and organic sulfate of potash.

1 Quart (Covers 1/2 Acre) • **1 Gal.** (1 Acre) • **2.5 Gal.** (2.5 Acres)

Bulk Sizes: 30 & 55 Gallon Drums & 275 Gallon Tote

***NOW Also Available as a Soluble Powder as OA HyphalLink Nourish.**

**ORGANIC
APPROACH**

No Phos.



Influence w/ 1% Iron, Org. Appr. (Influence + Greening Iron)

An environmentally-friendly fertilizer containing a perfectly balanced mix of nutrients for all your turf, plant and tree needs. For use with No-Phos laws.

Ingredients: 1% Iron + Humic acids, seaweed extract, yucca extract, iron sulfate, copper sulfate, zinc sulfate, manganese sulfate, cobalt sulfate, boric acid, sodium molybdate, lactic acid cultures and organic sulfate of potash.

1 Quart (Covers 1/2 Acre) • **1 Gal.** (1 Acre) • **2.5 Gal.** (2.5 Acres)

Bulk Sizes: 30 & 55 Gallon Drums & 275 Gallon Tote

**NEW
PRODUCT**

Fertilizers & Amendments

LIQUID FERTILIZERS & AMENDMENTS



Tomato & Vegetable Formula, Nept. Harvest (2-4-4)



Developed specifically for tomatoes and vegetables, this formula is balanced with fish and seaweed plus additional calcium, phosphorous and a natural sticking agent for healthy plant growth. Tomato & Vegetable Formula increases nutrient efficiency, water retention and organic matter while stimulating beneficial microbial activity to build health and root mass.

Ingredients: Hydrolyzed North Atlantic Fish, Phosphoric Acid, Seaweed (*A.Nodosum*), Potassium Hydroxide, Molasses, Humic Acid, Yucca Extract.

1 Pint (Covers 2,500 sq. ft.) • **1 Quart** (5,000 sq. ft.) • **1 Gallon** (1/2 Acre)
5 Gallon (2.5 Acres) • **Bulk Sizes: 55 Gallon Drum & 275 Gallon Tote**

Rose & Flowering Formula, Nept. Harvest (2-6-4)



A formula specifically designed with the extra phosphorous necessary for roses and flowering plants; but can be used on trees, shrubs, house plants and vegetables when extra phosphorous is needed. Increases nutrient efficiency, helps soil retain water, and builds root mass and organic matter.

Ingredients: Hydrolyzed North Atlantic Fish, Phosphoric Acid, Seaweed (*A.Nodosum*), Potassium Hydroxide, Molasses, Humic Acid, Yucca Extract.

1 Pint (Covers 2,500 sq. ft.) • **1 Quart** (5,000 sq. ft.) • **1 Gallon** (1/2 Acre)
5 Gallon (2.5 Acres) • **Bulk Sizes: 55 Gallon Drum & 275 Gallon Tote**

No Phos.



Lobster & Crab Shell Liquid, Nept. Harvest (2-0-2)

Lobster & Crab Shell liquid 2-0-2 option for applicators looking for an alternative to the existing granular formulation. Neptune's Harvest crafts their lobster & crab shell liquid from lobsters and crabs sourced from cold, clean, dark, mineral-rich North Atlantic Ocean waters near New England.

Ingredients: Derived from Crab & Lobster Shell Meal.

1 Pint (Covers 500 sq. ft.) • **1 Quart** (Covers 1,000 sq. ft.)
1 Gallon (Covers 4,000 sq. ft.)



No Phos.



ON-Gard® Liquid Fertilizer, BioWorks (5-0-0)



ON-Gard is an innovative fertilizer that is 100% plant-derived, 100% water soluble, and consistent in composition. The novel Low Salinity Index eliminates the chances of foliar burning at labeled rates.

Ingredient: Soy Protein Hydrolysate. 100% Plant Derived Nutrients.

2.5 Gallon (Covers 2.5 Acres)

30 Gallon (Treats 30 Acres)

No Phos.



Verdanta® PL-2 Fertilizer, BioWorks (2-0-6)



Verdanta PL-2 is derived from 100% organic ingredients and can be used as an organic liquid feed to supplement potassium for any crop type. The Low Salinity Index eliminates the chances of foliar burning at labeled rates.

Ingredients: Fermented Sugar Beet and Sugar Cane Molasses. 100% Plant Derived Nutrients.

1 Gallon (Makes 800 Gallons)

• **2.5 Gallon** (Makes 2,000 Gallons)

30 Gallon (Makes 24,000 Gallons)

• **211 Gallon** (Makes 168,800 Gallons)

No Phos.



Chilean Nitrate Liquid, Organic Appr. (5-0-0)

For a hit of Nitrogen for quick growth or greening, OA 5-0-0 is a convenient liquid form of OMRI-Listed Chilean Nitrates. No more need to buy bags of Chilean Nitrates and mix; the work is done for you and the time won't be spent measuring out and dissolving powdery products.

Ingredient: Organic Nitrate of Soda.

1 Quart (Makes 32 Gallons)

• **1 Gallon** (Makes 128 Gallons)

2.5 Gallon (Makes 320 Gallons)

• **Bulk Sizes: 30, 55 & 275 Gallon**

No Phos.



Chilean Nitrate & Potash Liquid, Organic Appr. (5-0-3)

For a quick-hit of Nitrogen and Potassium, 5-0-3 is a convenient liquid mixture of OMRI-Listed Chilean Nitrates and OMRI-Listed Potash. This quick acting 5-0-3 liquid mixture give you the convenience of not having to pre-dissolve multiple messy powders!

Ingredients: Organic Nitrate of Soda, Organic Sulfate of Potash.

1 Quart (Makes 32 Gallons)

• **1 Gallon** (Makes 128 Gallons)

2.5 Gallon (Makes 320 Gallons)

• **Bulk Sizes: 30, 55 & 275 Gallon**

No Phos.

Quantum-12® (Concentrated Liquid Humic Acid)



Quantum-12 is an advancement in carbon and mineral enhancement in the Quantum Growth series. Quantum-12 contains natural humus, bio-available organic carbon, minerals and essential elements. These inputs have been removed from our soil due to the over-use of chemical fertilizers and pesticides that kill biology that sequesters carbon; Quantum-12 helps to replenish the organic matter that is so vital for healthy plant growth and high yields.

Ingredient: Humic Acid (derived from Sub-bituminous Humate), 12%.

1 Gallon (Makes 2,560 Gallons / Covers 0.25 Acre) • **Bulk:** 5, 30, 55 & 275

No Phos.

Nourish-L (Liquid Humic Acid & Fulvic Acid)



A unique liquid soil conditioner derived from a highly decomposed organic humus deposit containing natural carbon compounds. This *is not* Leonardite and is unparalleled by other humates. Nourish-L contains a perfect blend of food for beneficial microbes and enhances nutrient absorption and water-binding capabilities.

Ingredient: Humic Acid (Decomposed Plant Residue), 0.25%.

1 Pint (Makes 16 Gallons) • **1 Quart** (Makes 32 Gallons)

1 Gallon (Makes 128 Gallons) • **5 Gallon** (Makes 640 Gallons)

Bulk Sizes: 30, 55 & 275 Gallon

No Phos.



Molasses, Unsulphured Blackstrap, Biogreux (1-0-5)

Biogreux Blackstrap Molasses is an all-natural, unsulphured organic fertilizer and potassium booster made from the byproduct of Louisiana sugarcane processing. Not only is Molasses an excellent fertilizer because of the nutrients it provides, it also has substantial benefits for the health of your soil as well as acting as an energy source for microbes.

1 Quart (Makes 32 Gallons) • **1 Gallon** (Makes 128 Gallons)
5 Gallon (Makes 640 Gallons) • **55 Gallon** (Makes 7,040 Gallons)
250 Gallon (Makes 32,000 Gallons)

No Phos.

Molasses, Unsulfured Blackstrap, Organic Appr.



Conventional Food Grade Molasses for your agricultural needs. Won't clog spray tips like lower grade molasses does. Molasses is a microbial food substrate (pre-biotic) and can add much needed micronutrients to deficient soils. The brix content of this product is an amazing 79.50!

1 Gallon (Makes 128 Gallons) • **5 Gallon** (Makes 640 Gallons)

Fertilizers & Amendments

GRANULAR FERTILIZERS & AMENDMENTS



Organic Approach manufactures multiple lines of granular and liquid fertilizers comprised of a wide variety of outstanding organic ingredients. Organic Approach's top-quality granular fertilizers are homogeneously blended and pelleted (prilled) to create unique consistency with low dust. Organic Approach products do not contain any manures and are free from offensive odors.



Axis Premium Biol. Fert., Organic Appr. (5-2-4)



Axis Premium Biological Fertilizer (5-2-4) is a certifiable organic fertilizer with 13 different ingredients comprising a perfect biological substrate for soil microbes. The unique formulation contains a majority of water insoluble nitrogen so burning is nearly impossible. Acts equivalently to a standard 10-10-10.

Ingredients: Soybean Meal, Cottonseed Meal, Alfalfa Meal, Meat and Bone Meal, Bone Char, Blood Meal, Fermented Corn Solubles, Vegetative Ash, Azomite, Soluble Seaweed and Humate Extracts.

No Phos.

N-Trust Slow Release, Organic Appr. (9-0-4)



9-0-4 is a 100% organic slow-release fertilizer ideal to feed soil biology for better turf, plant and tree health. No-Phosphorous formulation allows for compliance with local fertilizer laws.

Ingredients: Feather Meal, Soybean Meal, Cottonseed Meal, Alfalfa Meal and Vegetative Ash.

No Phos.

Sequest Deep Green, Organic Appr. (10-0-5)



Sequest 10-0-5 Deep-Greening Extended-Releases the only homogeneous fertilizer on the market to contain natural nitrate of soda and 5% soluble humates to act as both a quick release and extended release for both immediate and sustained greening.

Ingredients: Feather Meal, Soybean Meal, Wheat Meal, Nitrate of Soda and Sulfate of Potash.

Axis, N-Trust & Sequest Are Available in
50 lb. Bags or Pallets of 40x 50 lb. Bags.

GRANULAR FERTILIZERS & AMENDMENTS

NEW
BRAND



**MCGEARY ORGANICS GRANULAR FERTILIZERS & AMENDMENTS:
BRINGING YOU ONLY WHOLESOME INGREDIENTS - SINCE 1952!**

Organic Low Phosphate, McGeary Org. (6-0-4)



NEW
PRODUCT



The perfect organic grass fertilizer in areas with phosphorus restrictions, this low phosphorus fertilizer is also an excellent general purpose fertilizer for gardens and farm crops where fertilizers have been overused. Contains no manure or foul odor, will not burn plants and is a natural, slow release fertilizer.

Ingredients: Soybean Meal, Gypsum, Non-Bovine Blood Meal, Compost, Langbeinite.

NEW
PRODUCT



Organic General Purpose, McGeary Org. (5-3-4)



The most popular McGeary blend among farmers, landscapers and home gardeners; this rapid-response organic fertilizer performs well in a variety of applications and is the best organic grass fertilizer for a lush, green lawn. No manure or foul odor, will not burn and is a natural, slow release fertilizer.

Ingredients: Soybean Meal, Colloidal Phosphate, Langbeinite, Gypsum, Non-Bovine Blood Meal, Compost, Steamed Bone Meal.

NEW
PRODUCT



Green-Up & Side Dress, McGeary Org. (8-1-1)



Developed for turf and crops that require higher nitrogen. This high nitrogen fertilizer can be used as a mid-season side dress for row crops and also to correct nitrogen deficiencies in a lawn or garden. Contains no manure or foul odor, will not burn plants and is a natural, slow release fertilizer.

Ingredients: Soybean Meal, Non-Bovine Blood Meal, Colloidal Phosphate, Compost.

NEW
PRODUCT



Corn Gluten Meal, McGeary Org. (8-0-0)



McGeary Corn Gluten is made from only Non-GMO corn gluten. Corn Gluten is amongst the highest natural nitrogen source and provides a great green-up when applied to lawns in the spring, optimizing turf growth over weed growth.

Ingredient: Non-GMO Corn Gluten Meal.

NEW
PRODUCT



Flower & Plant Starter, McGeary Org. (3-5-3)



This organic phosphorus fertilizer provides the ideal phosphorus level for starting seeds. Organic phosphorus fertilizer also encourages flowering, which makes it an especially effective organic garden fertilizer for flowers and bulbs. Contains no manure, will not burn plants and is a natural, slow release fertilizer.

Ingredients: Colloidal Phosphate, Soybean Meal, Gypsum, Langbeinite, Non-Bovine Blood Meal, Compost, Steamed Bone Meal.

No Phos.

Chilean Nitrates, Allganic® (15-0-2)



Chilean Nitrates (Nitrate of Soda) is one of the only non-synthetic mineral sources of nitrogen. This product contains 15% Nitrate Nitrogen plus 2% Potassium derived from natural Potash. This unique product comes as a consistent prill that can be applied directly in the granular form or, as a 100% soluble pellet, can also be dissolved and applied as a liquid spray.

50 lb. Bag (Covers 15,000 sq. ft.) • **Pallet of 56x 50 lb. Bags**

No Phos.

Potassium Potash, Org. Appr. Granl. (0-0-50) Powder (0-0-52)



Potash provides vital Potassium (50% or 52%) and Sulfur (17%) to strengthen cell walls and increase plant and turf vigor. This natural, NOP-Compliant supplement can be applied as a granular or the powder is 100% soluble and can be applied as a liquid.

50 lb. Bag (Covers 10,000 sq. ft.) • **Pallet of 50x 50 lb. Bags**

Now available in both Granular & Powdered forms.

Bone Meal, Org. Appr. (2-11-0 + 24% Ca)



Steamed Bone Meal is a great natural source of phosphorus, calcium, and other important trace minerals. By breaking down rapidly in the presence of soil and microbial activity to aid healthy top and root growth in plants. A special steam process eliminates most of the fats, resulting in an oily dust that is much easier to work with.

50 lb. Bag (Coverage Varies with Soil Test) • **Pallet of 40x 50 lb. Bags**

No Phos.

Blood Meal, Org. Appr. (13.6-0-0)



Blood Meal Fertilizer Powder (13.6-0-0) is a great choice to add an organic nitrogen source to plants, trees or turf. As a 100% water soluble powder, Blood Meal provides ideal nitrogen for soil biology and helps promote vigorous plant health.

50 lb. Bag (Coverage Varies with Soil Test) • **Pallet of 40x 50 lb. Bags**

Available in both Micronized Powder & Granular forms.



Azomite® Trace Minerals Soil Amendment



Azomite is a natural mineral that serves as a unique re-mineralizer and anti-caking agent for soils. The complex mixture of naturally occurring minerals maximizes germination and helps plants grow to their full potential by aiding photosynthesis. Azomite also improves the Brix content, is OMRI listed and contains no synthetics or fillers.

44 lb. Bag (Covers 7,000 sq. ft.) • **Pallets of 50x 44 lb. Bags**

No Phos.

Encourage, Org. Appr. (11-0-4)

Encourage is a great way to naturally boost nitrogen for plants, turf, and trees when needed for stronger, faster growth. Encourage contains a natural complex of Amino Acids, Nitrogen, and Potash combined with powerful plant and soil stimulants.

- 1 lb. Bag** (Covers 1,970 sq. ft.) • **3 lb. Bag** (Covers 5,910 sq. ft.)
- 10 lb. Bag** (Covers 19,700 sq. ft.) • **18 lb. Bag** (Covers 35,640 sq. ft.)
- 44 lb. Bag** (Covers 86,680 sq. ft.)

No Phos.

Feather Meal, Fertrell (13-0-0)



Feather Meal is a great choice for crops that need steady, long lasting nitrogen. Due to its low water solubility, leaching is almost nonexistent with feathermeal and the nitrogen becomes available to plants through microbial activity.

- 50 lb. Bag** (Covers 10,000 sq. ft.)

HyphaLink Nourish, Org. Appr.



HyphaLink Nourish is a plant-balanced mixture of soluble humate, soluble seaweed extract, beneficial bacteria, and essential plant vitamins, designed to be an effective biological food substrate for use on all types of plants and in all types of soils.

- 1 lb. Bag** (Covers 1 Acre) • **2 lb. Bag** (Covers 2 Acre)
- 50 lb. Box** (Covers 50 Acre)

No Phos.

Green Sand, Fertl Soil



Green Sand is a natural soil amendment for vegetables, fruit, herbs, lawns, ornamentals, and all types of trees and shrubs. Occuring naturally in marine sedimentary deposits, Green Sand is great for nutrient dense and regenerative growers.

- 10 lb. Bag** (Covers 1,000 sq. ft.)

Epsom Salts (Magnesium Sulfate)



Epsom Salts are a quick acting Magnesium and Sulfur amendment or fertilizer. Epsom Salts can be used for a foliar application and can be mixed with other liquid fertilizers, amendments or pesticides.

- 50 lb. Bag** (Covers 20,000 sq. ft.)

Fertilizers & Amendments

GRANULAR & POWDERED FERTS. & AMENDMENTS



Crab & Lobster Shell Flour, N.H. (7-2-1) Crab & Lobster Shell Pieces. N.H. (5-3-0)



Neptune's Harvest Organic Crab Shell is an excellent dry organic source of Nitrogen, Phosphorous and Potassium (NPK) plus a great source of Calcium and Magnesium for pH control. Can be spread or worked into the soil

Pieces: 4 lb. (130 sq.ft.) • **12 lb.** (390 sq.ft.) • **44 lb.** (1,667sq.ft.)

Flour: 44 lb. Bag (10,000 sq.ft.) • **Pallets of 50x 44 lb. Bags**



Flour



Pieces



Crab Meal (Flour & Coarse 4-4-0 + 18% Ca), Biogreaux



Biogreaux Crab meal is an all-natural fertilizer and soil amendment made from byproducts of blue crab processing. Besides being eco-friendly, crab meal is a natural time release and rich in organic nitrogen, phosphorus, calcium and other macro and micro-nutrients critical for plant growth and reproduction.

Ingredient: Derived From Crab Shells.

5 lb. (500 sq. ft.) • **20 lb.** (2,000 sq. ft.)

40 lb. (4,000 sq. ft.) & **Pall. of 50x 40 lb.** • **2,000 lb. Tote** (4.6 Acres)



Power Blend (5-3-1 + 16% Ca), Biogreaux



Biogreaux Power Blend is a premium all-natural fertilizer and soil amendment made from a mix of our Crab Shell, Shrimp Shell and Blackstrap Molasses. Power Blend is naturally time released and is rich in organic nitrogen, phosphorus, potassium, calcium and numerous other macro and micro-nutrients critical for plant growth and reproduction.

Ingredients: Derived From: Crab, Shrimp, Molasses

5 lb. (500 sq. ft.) • **20 lb.** (2,000 sq. ft.)

40 lb. (4,000 sq. ft.) & **Pall. of 50x 40 lb.** • **2,000 lb. Tote** (4.6 Acres)

SEAWEEDS & HUMATES

No Phos.

**Kelp Meal, Neptune's Harvest & O.A. (1-0-2)**

Neptune's Harvest Organic Kelp Meal is made with the northern seaweed *Ascophyllum Nodosum*, widely recognized as one of the finest nutrient sources available. With 60+ micronutrients and natural growth factors, kelp is one of the best supplements for any treatment program.

4 lb. Bag (Covers 750 sq. ft.) • **12 lb. Pail** (2,500 sq. ft.)
50 lb. Bag* (10,500 sq. ft.) • **Pallet of 50x 50 lb. Bags***

*Note: 50 lb. Bags are Organic Approach Brand.

No Phos.

**Soluble Seaweed Extract Nature's Essence SEP, O.A.**

A soluble extract powder derived from raw seaweed. Its growth promoting substances (Auxins, Cytokinins, Gibberellins) enhance plant development, color and vigor. Seaweed has also been found to increase plant hardiness and resistance to adverse environmental conditions.

1 lb. (14,500 sq. ft.) • **3 lb.** (1/2 Acre) • **20 lb.** (9 Acres) • **44 lb.** (19.8 Acres)

Hum-Amend MAX, TeraVita®

From TeraVita, another great soil restoration amendment that provides high levels of organic carbon and stable humus for soil better cation exchange capacity (CEC) and to feed and stimulate soil biology growth.

Ingredients: Raw Leonardite, Soluble Humate Extract, Raw Kelp Meal & Soluble Seaweed Extract.

15 lb. Bag (Covers 3,000 sq. ft.) • **50 lb. Bag** (Covers 10,000 sq. ft.)
 • **Pallet of 50x 50 lb. Bags**

Humate Conc. Powder, TeraVita® SP-90

This specially processed humate blend from TeraVita is a dried product containing guaranteed 90% (SP-90) humic acids. Humates are a great, cost-effective way to build soil organic matter to help with retention of soil nutrients (fertilizers) and water for better plant, tree and turf availability. Humates also help to reduce environmentally harmful run-off.

1 lb. (1/2 Acre) • **3 lb.** (1.5 Acres) • **18 lb.** (9 Acres) • **55 lb.** (27.5 Acres)



Seaweed & Kelp

Humates

INDOOR GROWING: FERTILIZERS & AMENDMENTS



Vitamins & Aminos

All-In-One

Terps Plus



Formulated Especially
for Indoor Growing

**Grow Big
(6-4-4)**



**Tiger Bloom
(2-8-4)**



**Big Bloom
(0-0.5-0.7)**



**Bush Doctor Cal-Mag
(1-0-1)**



All FoxFarm Products Available in 4 Sizes

1 Pint • 1 Quart • 1 Gallon • 2.5 Gallon



The Finest for
Indoor Growing Use

**Gaia Mania
(1-5-1)**



**Medusa's Magic
(2-5-2)**



**Zeus Juice
(Humic Acid & Kelp)**



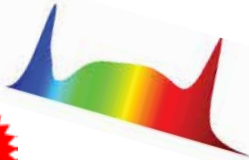
**Triton's Trawl
(0.5-4-0)**



All Nectar For The Gods Products Available in 4 Sizes

1 Quart • 1 Gallon • 2.5 Gallon • 5 Gallon

**NEW
PRODUCT**



Iluminar HYPERmol

Cost-effective, efficient, full spectrum LED lighting solution, trimmed down to the essentials. A reliable, easy to clean fixture that can be assembled and disassembled in seconds.

720 Watt, 100-277V, 1944 $\mu\text{mol/s}$

**NEW
BRAND**



**NEW
PRODUCT**



Iluminar CMH SE 315W 120V

Single-ended fixture that delivers a low frequency and utilizes square wave technology. Designed to dissipate heat quickly without the need for cooling systems. Can be used as a standalone or supplemental light source.

120V AC Power Cable (Included)

**NEW
PRODUCT**



Iluminar HPS DE 750/600W 120V

A double-ended, all-in-one fixture designed for smaller environments. Delivers optimal light output, uniformity, and deeper canopy penetration.

120V AC Power Cable (Included)

**NEW
PRODUCT**



CMH SE Lamp 4K

A lighter, smaller and cooler option that can be used through all stages of the growth cycle.



750W DE HPS LAMP

1350 $\mu\text{mol/s}$ and enhanced PAR maintenance over 10,000-hour lifetime, experience deeper oils, resins, and terpenes.

Tents & Grow Kits



MEG Grow Tents

MEG Grow Tents create the best possible growing environment for your plants, maximizing the quality and yield of your harvests. Grow Tents help you closely control the growing environment and are light proof, durable, strong, safe and discrete.

3'x3'x6' • 4'x 4'x6' • 5'x5'x6.5'

Sunblaster LED Grow Light & Grow Light Micro Gardens

LED lights with an estimated 11.4 year lifespan, these lights adjust in height as your plants grow. Easy starter kits.



Blueelab



pH Pen

A compact and durable pH meter that is an essential part of any hydroponic grower's toolkit. Measures in increments of 0.1 pH and fully temperature compensated.



Conductivity Pen

A handheld meter used to measure electrical conductivity in a hydroponic nutrient solution.



EC/MC Meter

Accurately measures electrical conductivity, moisture, and temperature with a single click. Measures in hydroponic solutions and soil. **Big space in the title is weird**



Combo Meter

A three-in-one portable meter that will measure pH, conductivity, and temperature.

Water & Air Pumps

Supreme HYDRO

HYDRO-MAG Recirculating Water Pumps



Hydro Mag Available Sizes
350GPH • 700 GPH • 1800 GPH



Submersible Cloning Pumps



155 GPH with
Tube and Spray
Head



Oxy-Flo Low and High Volume Air Pumps



Oxy-Flo Available Sizes
8W • 20W • 40W

Worm Castings Soils & Medias

WORM POWER
The Only Worm Casting Manually
Heated for **NO WEED SEEDS!**



Worm Power Worm Castings



An easy-to-apply granular soil supplement that has been proven effective by Penn State, Cornell, and Cal-Poly Universities. Worm castings improve seed germination, reduce transplant shock and improve plant growth. Worm Power reduces the need for synthetic fertilizers and is OMRI Listed for Organic Production. Perfect moisture level of live castings allows for use in standard spreaders.

3 lb. Bag (Covers 150 sq. ft.) • **15 lb. Bag** (750 sq. ft.)
40 lb. Bag (2,000 sq. ft.) • **Pallets of 25x or 40x 40 lb. Bags**
Bulk Sizes Also Available: 1 & 2 Cubic Yard Sacks



Worm Power Liquid Extract



The liquid extract version of the standard in vermicompost, Worm Power! A convenient liquid that is proven, stable and reliable with over 1,000,000 gallons sold; now for easy use in soil, soil-less media and hydroponic growth environments.

1 Gallon (8,700 sq.ft.) • **2.5 Gallon** (1/2 Acre) • **Bulk: 55 Gallon & 275 Gallon**



Finesse GVH (Granular Vermi-Humus)



Organic Approach's GVH is a premium, high-biology soil supplement derived from homogeneously mixing and granulating earthworm compost, raw Leonardite humates and soluble humates. GVH will vastly increase biological activity in soil naturally. Convenient and easy granular formula works with standard spreaders and avoids the intense manual labor needed with other standard worm castings!

50 lb. Bags (Covers 5,000 sq. ft.) • **Pallets of 40x 50 lb. Bags**



FibreDust Coco Coir



Coco coir is an ideal substrate for novice and expert growers alike due to its water retention and drainage capabilities as well as its ease of use. FibreDust offers a range of coir/perlite blends and sizes tailored to your needs as a cultivator.



650 g Bricks
(Expands to 2 Gallons)



Coco Discs Seed Starters



5 KG Blocks
(Expands to 2.5 cu. ft.)



4"x4"x4" Grow Cubes



3 & 5 Gallon Grow Bags



5 KG 100x Block Pallets



Mammoth Starter Plugs

A 50/50 mix of coco coir and sphagnum peat moss propagation plugs. Compatible with any type of growing media.

50-Cell Tray.
Bulk Orders Available.



Grodan A-OK 2"x2" Rockwool Starter Plugs

50-plug sheets designed for seed and cutting propagation.



FoxFarm Ocean Forest

FoxFarm's premium ready-to-use organic and natural soil blend.

Ingredients: Aged forest products, sphagnum peat moss, perlite, sandy loam and fertilizer.



FoxFarm Happy Frog

A potting soil designed for container planting, amended with soil microbes.

Ingredients: Earthworm castings, bat guano, and aged forest products.

All FoxFarm Soils Available in convenient 12 Quart Bags



1 Liter / 33.8 oz. (Treats 2.5 Acres)

4 Liter (Treats 10 Acres)

2.5 Gallon (Treats 25 Acres)

Vitazyme® and BioShot give you the best *Return On Investment (ROI)* of all the products we carry. With proven yield increases and improved quality parameters, you get higher market prices for products or services. Organic and made from naturally fermentation ingredients, Vitazyme & BioShot are thoroughly tested, proven with multiple studies and very cost effective!

Bio Shot is a new concentrated formulation with 10-times more active ingredients than found in Vitazyme. Bio Shot delivers a more potent, cost effective way to dramatically increase yields, plant health and blooms.



1 Liter / 33.8 oz. (Treats 22.5 Acres)

KeyPlex is a unique mixture of the micronutrients most often found deficient in commercial crops and trees. Uniquely contains alpha-keto acids, which facilitate utilization of micronutrients, and increase resistance to environmental stress. This combination, found only in KeyPlex, fuels the energy requirements for defense, growth, and reproduction necessary in plant production and stabilization.



KeyPlex® 350 DP

KeyPlex 350 DP is the core KeyPlex formulation of *micronutrients, amino acids, and humic/fulvic acids* that are very often found deficient in commercial crops and trees. This combination adds vital nutrients and organic matter to plants and soils for healthier and stronger growth.



KeyPlex® 350 OR

KeyPlex 350 OR will elicit production of defensive proteins in certain plants. EPA Registered and OMRI Listed, KeyPlex 350 OR is the choice for disease control and organic certifications.



All KeyPlex products available in 2.5 Gallon containers. Bulk sizes available. All other KeyPlex formulations not listed here are also available upon request.

Weed Killers (Herbicides)

NON-SELECTIVE WEED KILLERS



Fatty Acid-Based (Caprylic & Capric Acid) formulations are the most potent organic non-selectives available. These products work by removing the waxy plant cuticle, causing dehydration and the most thorough plant death. Use where synthetic weed killers such as Roundup® are banned or not desired.

The Top Non-Selectives
Available - Fatty Acids (Soaps)



Finalsan® Non-Selective



A less expensive and more effective Non-Selective for professionals - Finalsan® Herbicide is a fast-acting weed, grass and algae killer and a Roundup® alternative. Using a specially formulated, non-staining, ammonium soap of fatty acids, Finalsan is a non-selective herbicide that controls or suppresses many common annual, biennial, and perennial weeds.

Active Ingredient: Ammoniated soap of fatty acids, 20%.

2.5 Gallon (Covers 12,500 sq. ft.) • **250 Gallon** (Covers 43 Acres)



HomePlate® (Similar to Finalsan but Labeled for Ag. Crops)



Unique mode of action that kills only plant leaves and shuts down photosynthesis. High solubility and formulation stability allow for better spreading and knockdown; rain-fast in three hours. Can be used for vegetation burn-down, directed and shielded sprays, pre-plant application, post-harvest spray, sucker control, harvest aid, pruning and trimming etc.

Active Ingredients: Caprylic Acid (44%) and Capric Acid (36%).

2.5 Gallon (Covers 1 Acre) • **250 Gallon** (Covers 100 Acres)



Bonide Captain Jack's Deadweed Brew



Exact formulation as HomePlate but for retail; Bonide Captain Jack's Deadweed Brew is a fast-acting non-selective weed killer for use around small fruits, vines and fruit trees or on buildings, sidewalks and fences.

Active Ingredients Concentrate: Caprylic Acid (44%) and Capric Acid (36%).

1 Quart RTU (As Needed) • **1 Gallon RTU** (As Needed)
1 Pint Conc. (Covers 1,600 sq. ft.) • **1 Quart Conc.** (3,200 sq. ft.)

SELECTIVE & PRE-EMERGENT WEED CONTROLS


Fiesta® Selective Liquid Weed Killer **Professional Size**

Fiesta Lawn Weed Killer is a selective, broadleaf weed killer that leaves lawns healthy and weed-free using a specially formulated iron chelate solution. Same-day results even in cold weather and no unpleasant odor during or after application.

Active Ingredient: Iron HEDTA (FeHEDTA), 26.52%.

1 Gallon (Covers 10,000 sq. ft.) • **2.5 Gallon** (25,000 sq. ft.)
200 Gallon (Covers 47 Acres)


Bonide Captain Jack's Lawnweed Brew Liq.


Same formulation as Fiesta now in smaller, more convenient sizes for home use!

1 Quart RTU • 1 Gallon RTU • 1 Gallon HES • 1 Pint Conc. • 1 Quart Conc.

Pre-Emergent Weed Killers


Branch Creek® Weed Prevention w/ Lawn Food (10-0-2)

Combine Fertilizer and Weed Control in one application! Weed Prevention 10-0-2 is a granular fertilizer with a pre-emergent activity that gives superior turf greening and also provides control of crabgrass and other weeds. The 10-0-2 is processed using a novel corn gluten steep processing and contains no toxic synthetic compounds.

Active Ingredient: Corn Gluten Meal (Steep Processed), 85%.

Minimum Risk
25(b) Exempt

40 lb. Bag (Covers 10,000 sq. ft.) • **Pallets of 50x 40 lb. Bags**


Corn Gluten, O.A. (9-0-0)

Same Corn Gluten but without an herbicide claim; labeled only as a standard fertilizer.


Branch Creek® Crabgrass Shield (Liquid)

Minimum Risk
25(b) Exempt

Crabgrass Shield is a unique liquid pre-emergent for control of crabgrass, broadleaves and other weeds. By burning seed hairs found only on weed seeds, but not on turf seeds, weed germination is disrupted without affecting established turf or turf seeds.

Active Ingredient: Soybean Oil, 10%.

2.5 Gallon (Covers 10,000 sq. ft.)

Combo Pre-Emergent & Selective Post-Emergent


Tenacity® or Torocity™ (Generic)

Tenacity herbicide can be used for pre- and post-emergent control of more than 46 broadleaf weed and grass species, and is *one of the only post-emergent crabgrass solutions*. Tenacity is one of the few synthetics we carry since as there is not an organic crabgrass option available. Mesotrione is based on a natural compound produced by the bottlebrush plant that inhibits photosynthesis in weeds and Tenacity has reduced-risk status by the EPA due to a low toxicity profile.

Active Ingredient: Mesotrione, 40%.

8 oz. Conc. (Covers 1.5 Acres)

Tick, Mosquito & Flea Control



Tick



Mosquito



Flea

Tick Killz™

Minimum Risk
25(b) Exempt

The choice of organic professionals, Tick Killz is an all natural tick control made with organic ingredients that offers strong control against ticks and also some control against mosquitoes, fleas and gnats. Tick Killz uses a unique double mechanism of action: It kills on contact, then dries in an hour and becomes a strong repellent. Lasts an average of 4 weeks.

Active Ingredients: Cedar Oil, 2-Phenethyl Propionate (Based on Guava Version) and Peppermint Oil.



8 oz. Hose-End Sprayer (Covers 10,000 sq. ft.) • **8 oz. Conc.** (Covers 40,000 sq. ft.)
32 oz. Conc. (Covers 3.75 Acres) • **64 oz. Conc.** (Covers 7.5 Acres)
2.5 Gallon Conc. (Covers 37.5 Acres) • **Bulk Sizes: 30 Gallon Drum & 270 Gallon Tote**



I Must Garden® Mosquito, Tick & Flea Control

FOR HOME USE

Minimum Risk
25(b) Exempt

This product, designed for homeowner use, combines garlic and other natural essential oils to provide moderate control against mosquitoes, ticks and fleas without specializing in either pest.

Active Ingredients: Cedarwood Oil, Lemongrass Oil, Thyme Oil, Garlic, Citronella, Oil, Geraniol, Peppermint Oil, Rosemary Oil.

32 oz. RTU (Covers 250 sq. ft.) • **1 Gall. RTU** (1,000 sq. ft.) • **32 oz. Conc.** (4,000 sq. ft.)



MosquitoCure™

Minimum Risk
25(b) Exempt

MosquitoCure contains plant based extracts that directly affect a mosquito's nervous system for fast knockdown and control of mosquitoes and some effect on ticks and other pests. Repellent action gives up to 4 weeks of residual control.

Active Ingredients: Lemongrass Oil, Citronella Oil, Cedarwood Oil, Rosemary Oil, Garlic Oil, Red Thyme Oil.

1 Gallon Conc. (Covers 11 Acres)



Mosquito Barrier® Garlic

Minimum Risk
25(b) Exempt

Mosquito Barrier is a concentrated liquid garlic made from potent garlic cloves. Garlic has natural sulfur which repels insects such as mosquitoes, ticks and fleas. Garlic Barrier imparts no garlic taste on any crops or plants that are sprayed and the odor disappears from the air in 20 minutes.

Active Ingredients: Garlic Juice, 99.3%.

1 Quart (Covers 1.25 Acres) • **1 Gallon** (Covers 5 Acres)
55 Gallon (Covers 275 Acres)



Bonide Mosquito Beater® (Pell. & Spray)



Minimum Risk
25(b) Exempt

A pleasant smelling mosquito repellent for your yard, the natural oils in Mosquito Beater will deter & repel mosquitoes for up to 3 weeks.

Active Ingredients: Citronella Oil, Garlic, Geranium Oil, Cedarwood Oil, Lemongrass Oil.

1.3 lb. WSP (Covers 4,000 sq. ft.) • **1 Quart HES** (Covers 5,000 sq. ft.)



Microbe Lift® BMC

Specially Formulated for Hydroponics, Aquaponics and Decorative Water Features or any areas where standing water exists - kills developing mosquito larvae before they become breeding, biting adults. BMC can be applied to areas that contain aquatic life, fish, birds or animals.

Active Ingredient: *Bacillus thuringiensis* subspecies *israelensis*, 8%.

2 oz. (Treats 20,000 Gall.) • **6 oz.** (Treats 60,000 Gall.) • **1 Gallon** (Treats 1,280,000 Gall.)



Bonide Mosquito Beater® WSP



Mosquito Beater WSP is a mosquito larvicide made from the natural bacterium *Bacillus thuringiensis israelensis*. Completely water soluble, Mosquito Beater WSP can be applied to standing water where mosquitoes breed, targeting larvae to prevent them from developing into adults.

Active Ingredient: *Bacillus thuringiensis* subspecies *israelensis*, 1.7%.

24x Pack of 0.2 oz. Pouches

Personal Insect Repellents



Best Yet™ Biting Insect Spray

Minimum Risk
25(b) Exempt

Best Yet from Neptune's Harvest is a natural personal insect repellent effective against Mosquitoes, Fleas, Flies, Ticks, Green Heads, Chiggers, No-See-Ums and Gnats. It can be applied over clothing or directly to skin and is resistant to sweat.

Active Ingredient: Cedar Oil, 10%.

2.5 oz. Sprayer • **32 oz. Refill**

Beetle & Grub Control

BEETLE CONTROL

GAME CHANGER



FOR ORGANIC PRODUCTION

beetleGONE!® tlc



Wettable Powder

**Now Also Labeled
FOR GRUBS**

The first *B.t.g.* (*Bacillus thuringiensis galleriae*) bio-insecticide to control adult beetles at a level of efficacy equivalent to chemical standards but without the side effects or off-target damage to beneficial insects, such as bees, butterflies and other pollinators.

beetleGONE! is the top effective control product that is approved for organic growers and not only kills adult beetles, but is now also approved as a liquid spray for grub (larval beetle) control!

beetleGONE! works against a broad range of scarab (pest) beetles without harm to beneficials:

Effective Against: Japanese, Asiatic, June and Oriental Beetles; European, Cupreous, Southern and Northern Masked Chafers.

Active Ingredient: *Bacillus thuringiensis galleriae*, Strain SDS-502.

1 lb. Foil Bag

Beetles: Covers 17,500 sq. ft.

Grubs: Covers 4,000 sq. ft.

2 lb. Foil Bag

Beetles: Covers 35,000 sq. ft.

Grubs: Covers 8,000 sq. ft.

5 lb. Foil Bag

Beetles: Covers 2 Acres

Grubs: Covers 20,000 sq. ft.



Ecotrol® Plus

Minimum Risk
25(b) Exempt



Ecotrol attacks a beetle's octopamine neuroreceptors, a key insect receptor that regulates movement, heart rate, behavior and metabolism. Ecotrol's blockage of this insect receptor results in insect nerve excitation, immobilization, paralysis and ultimately death.
Active Ingredients: Rosemary Oil, Geraniol, Peppermint Oil.

1 Gallon (Covers 2-8 Acres)

2.5 Gallon (Covers 5-20 Acres)

GRUB CONTROL

GAME CHANGER



**BEE &
POLLINATOR
SAFE**

grubGONE!®G

Granular

The first organic control for turf grubs to confer control at a level of efficacy equivalent to or better than chemical standards. grubGONE! controls white grubs (scarab beetles) without the side effects or off-target damage to beneficial insects (bees, butterflies and other pollinators, for example) or natural grub enemies such as beneficial nematodes. grubGONE! is also very unique as an effective control of the larger, later 2nd- and 3rd-instar grub and can therefore be used as both a curative as well as a preventative treatment - something even most synthetics can't be used for!

grubGONE! works against a broad range of scarab beetles including:

Japanese Beetle, Oriental Beetle, Asiatic Garden Beetle, European Chafer, Green June Beetle, May or June Beetle, Northern Masked Chafer, Southern Masked Chafer etc....

10 lb. Bag (Covers 5,000 sq. ft.)



40 lb. Bag (Covers 20,000 sq. ft.)



Branch Creek Grub Shield™

**Minimum Risk
25(b) Exempt**

Grub Shield contains botanical oils that coat or damage the protective coat of grubs thus smothering and dehydrating them, as well as driving them away from root zones and deeper into the soil. Grub Shield also contains oyster and clam shells that induce chitinase, enzymes that break down grub exoskeletons.

Active Ingredients: Eugenol, Soybean, Rosemary, Cinnamon & Sesame Oils.

1 Gallon (Covers 4 Acres)

Ant, Bug & Slug Control



ANTIXX® Plus Granular Ant Bait

ANTIXX Plus is an OMRI listed granular product that kills several species of ants, earwigs, cutworms, sowbugs, pillbugs, crickets, slugs, and snails. Its dual mode of action kills both protein and carbohydrate feeders and has an excellent safety profile. 1 lb. covers up to 4,000 linear feet and people and pets can enter the area after bait is applied.

Active ingredient: Spinosad (0.07%) & Iron Phosphate (0.97%).

5 lb. (Broadcast: Covers 10,000 sq. ft. / Perimeter: 20,000 linear ft.)

25 lb. (Broadcast: Covers 50,000 sq. ft. / Perimeter: 100,000 linear ft.)



ANTIXX® Fire Ant Bait

ANTIXX Fire Ant Bait is a deadly attractant for foraging red imported fire ants (*Solenopsis invicta*) and harvester ants and is readily taken back into the nest as food for the colony. The active ingredient in the bait is distributed throughout the colony, killing the entire ant colony, including the queen.

Active ingredient: Spinosad, 0.015%.

2 lb. (Covers 34,000 sq. ft.)

10 lb. & 20 lb. Bags Also Available as Full Pallets Only



Antack™ Liquid Ant Bait (Exact Replacement for ANTIXX Liquid)

Antack Liquid Ant Bait is the new name for ANTIXX with the exact same formulation. Antack kills multiple ant species within 48 hours. Ideal for residential and industrial needs, and can be used both indoors and outdoors. Antack contains an effective attractant that kills the colony and queen while remaining effective for up to 4 weeks.

Active ingredient: Spinosad, 0.015%.

1 Pint (As Needed)

Disposable Bait Stations Sold Separately



Ant & Insect Control RTUs, IMG



Minimum Risk
25(b) Exempt

Both contact killers, these products are both Ready-To-Use sprays to directly spray on ants and insects for a quick kill. Ant Control is Great for killing indoor ants and for entryways, Insect Control can be sprayed directly on plants.

Active Ingredients (Ant Control): Peppermint Oil, Soybean Oil, Garlic, Vinegar, Molasses, Garlic, Potassium Sorbate, Xanthan Gum.

Active Ingredients (Insect Control): Peppermint Oil, Thyme Oil, Garlic, Rosemary Oil, Wintergreen Oil, Canola Oil, Garlic, Fish Oil, Potassium Sorbate, Xanthan Gum.

1 Quart RTU Spray (Ant & Insect Control) • 1 Gallon RTU (Ant Control Only)



Bonide Bug Beater® Stink Bug Traps



Minimum Risk
25(b) Exempt

Bonide Stink Bug Traps can be used to protect homes from the recent population explosion of stink bugs. This kit uses a dual action pheromone lure to capture brown marmorated and green stink bugs from up to 50 feet away. Traps are odorless, suitable for indoor use and work for up to 4 weeks.

Active Ingredient: Pheromone Attractants.

Contains 1x Dual Action Lure and 3x Disposable Traps

Slug Control (Iron Based)



FERROXX® Slug & Snail Bait

Ferroxx is an iron-based bait that is effective against a wide variety of slug and snail species and is exempt from the requirement for a tolerance when on all food commodities. Can be used to protect crops, nursery stock, berries, lawns, gardens, greenhouses. Ferroxx can be used in areas where pets and wildlife protection are a concern.

Active ingredient: Sodium Ferric EDTA, 5%.

50 lb. Bag (Covers up to 10 Acres) • Pallet of 40x 50 lb. Bags

Sluggo® (Slug Bait) & Sluggo® Plus (Ant Bait)



Sluggo kills both snails and slugs. Sluggo Plus is the "next level" formulation of Sluggo with Spinosad added for synergistic efficacy and expanded use against more insects including earwigs, sowbugs, cutworm, pillbugs and crickets. Both products are OMRI listed, can be used around pets and wildlife, remain effective after rain and can be applied up until the day of harvest.

Active Ingredient (Sluggo): Iron Phosphate, 1%.

Active Ingredients (Sluggo Plus): Spinosad (0.07%) & Iron Phosphate (0.97%).

Sluggo: 1 lb. Shaker • 2.5 lb. Shaker • 10 lb. Bag • 50 lb. Bag

Sluggo Plus: 1 lb. Shaker • 2.5 lb. Shaker



Pest Insect Control

BIOLOGICAL PEST INSECT CONTROL



BEE SAFE



Grandevo® WDG Biological Insecticide



Grandevo WDG is a microbial-based insecticide that works to repel, stop feeding, reduce reproduction and induce mortality in damaging populations of insect larvae. Grandevo provides performance and flexibility for control of white grubs, chinch bugs, sod webworms, chafers, cutworms and other damaging pests.

Active Ingredient: Chromobacterium subtsugae Strain PRAA4-1, 30%.

6 lb. Bag (Covers 2.4 Acres as a Foliar or 24,000 sq. ft for Turf)

BotaniGard® ES & BoteGHA® ES



BoteGHA ES is a unique biological insecticides that is effective against a broad range of insects including white grubs, surface feeders, weevils, chinch bugs, and mole crickets. The mode of action of this product is unlike any other conventional insecticide. Spores of the beneficial microbe *Beauveria bassiana* adhere to the host, germinate, and produce enzymes that attack and dissolve the insect's cuticle. The microbe then penetrates the insect and grows into its body, leading to death.

Active Ingredients: Beauveria bassiana strain GHA, 11.3%.

1 Quart as BotaniGard (1 Acres) • **1 Gallon as BoteGHA** (4 Acres)

NemaShield® Beneficial Nematodes

Minimum Risk
25(b) Exempt



A live nematode insecticide that can be used to boost biological activity in soil. The nematode species in NemaShield actively search out, infect and kill insect larvae such as thrips and fungus gnats.

Active Ingredient: Steinernema feltiae nematodes.

100 Million (Covers 3,000 sq. ft.) • **250 Million** (Covers 7,500 sq. ft.)



B.t. kurstaki for Caterpillars & Worms Such as Gypsy Moths, Armyworms, Cutworms etc.



Javelin® WG (*B.t. kurstaki* Strain SA-11)



Javelin WG contains the proven *B.t.k.* beneficial bacterium that offers broad spectrum control of pest caterpillar or worm populations in trees and crops. Javelin is a great solution for pests such as Armyworms, Gypsy Moths, Peach Twig Borers, Leafrollers, Codling Moth, Cutworms and Cabbageworm.

Active Ingredient: *Bacillus thuringiensis kurstaki* Strain SA-11, 85%.

5 lb. Bag (Covers 10 Acres)



Monterey B.t. (*B.t. kurstaki* Strain SA-12)



Monterey B.t. is made from a natural bacterium that controls worms and caterpillars on fruits, vegetables, ornamentals and shade trees. A natural solution proven for decades, *B.t.* provides non-toxic control of devastating pests that is effective without off-target or environmental damage.

Active Ingredient: *Bacillus thuringiensis kurstaki* Strain SA-12. 9.83% & 98.35%.

1 Quart RTU (As Needed) • **1 Pint Conc.** (Covers 8,000 sq. ft.)
1 Quart Conc (16,000 sq. ft.) • **1 Gallon Conc.** (Covers 64,000 sq. ft.)



Crymax® WG (*B.t. kurstaki* Strain EG7841)

Crymax is a genetically engineered strain of *B.t.* containing toxins from both *B.t. kurstaki* and *B.t. aizawai* strains for use against caterpillar larvae, which stop eating within an hour of ingestion and die within several days. Agree WG is most effective against small, newly hatched larvae, an early scouting program to determine early infestations is recommended.

Active Ingredient: *Bacillus thuringiensis kurstaki* Strain EG7841, 40%.

5 lb. Bag (Covers 10 Acres)



Agree® WG (*B.t. aizawai* Strain GC-91)



Agree WG is a biological insecticide for use against caterpillar larvae, which stop eating within an hour of ingestion but may remain on the foliage until they die, usually within several days. Agree WG is most effective against small, newly hatched larvae, an early scouting program to determine early infestations is recommended.

Active Ingredient: *Bacillus thuringiensis aizawai* Strain GC-91, 50%.

5 lb. Bag (Covers 10 Acres)

B.t. aizawai



Bonide Diatomaceous Earth

Bonide Diatomaceous Earth is an indoor and outdoor crawling insect killer that controls multiple insects. Applied as a dust or slurry, Diatomaceous Earth kills insects on contact or by ingestion within 48 hours and can be safely applied to growing crops, livestock, food and feed establishments.

Active Ingredient: Diatomaceous Earth Consisting of Silicon Dioxide, 85%.

1.3 lb. Shaker (Covers 808 sq. ft.) • **5 lb. Bag** (Covers 3,111 sq. ft.)



Ecotrol® Plus

Minimum Risk
25(b) Exempt



Ecotrol attacks an insect's octopamine neuroreceptors, a key mite and insect receptor that regulates movement, heart rate, behavior and metabolism. Ecotrol's blockage of this insect receptor results in insect nerve excitation, immobilization, paralysis and ultimately death. Ecotrol is formulated to deliver maximum performance with minimal environmental impact.

Active Ingredients: Rosemary Oil, Geraniol, Peppermint Oil.

1 Gallon (Covers 2-8 Acres) • **2.5 Gallon** (Covers 5-20 Acres)



Molt-X® (Azadirachtin from Neem Trees)



Molt-X is an emulsifiable concentrate formulation containing 3% of the active ingredient azadirachtin, the most potent of the insect-active compounds from the neem tree, but without the drawbacks of neem oil. Molt-X has multiple modes of action: An Insect Growth Regulator that disrupts molting in insects, a repellent, an anti-feedant and ovipositional deterrent.

Active Ingredient: Azadirachtin, 3% (Derived from Neem Seed).

1 Quart (Covers 4 Acres) • **1 Gallon** (Covers 16 Acres)



PyGanic® EC 1.4 & PyGanic® EC 5.0



PyGanic is an OMRI-approved organic, broad-spectrum contact insecticide with botanically-derived active ingredients from Chrysanthemum flowers. PyGanic controls a broad-spectrum of insects on virtually every type of crop and requires no pre-harvest interval or restrictions on the number of applications that can be made per year.

Active Ingredient: Pyrethrins; EC1.4, 1.4% • EC5.0, 5.0%.

EC 1.4: 1 Quart (Covers 0.5-2 Acres) • **1 Gallon** (Covers 2-8 Acres)

EC 5.0: 1 Quart (Covers 1.75-7 Acres) • **1 Gallon** (Covers 7-28 Acres)

Note: Due to potential bee & beneficial toxicity, PyGanic is only sold after consultation with our staff.

Spinosad is our **TOP CHOICE for Organic Pest Control**. From a naturally occurring soil bacterium, spinosad has very low toxicity against pollinators and is highly effective!

Conserve® SC & Entrust® SC



Spinosad is derived from a naturally occurring soil dwelling bacterium. Entrust SC & Conserve SC insecticides provide control of lepidopterous larvae (caterpillars & worms), leafminers, thrips and fire ants. Labeled for use on vegetable crops, fruit, turf, ornamentals etc. REI of 4 Hrs. Broad coverage.

Active Ingredient: Spinosad; Conserve, 11.6% • Entrust, 22.5%.

Conserve: 1 Quart (Covers 0.5-1 Acres) • **Entrust: 1 Quart** (Covers 21 Acres)

Seduce® (Professional Granular Bait)



Seduce is a spinosad soil-applied insecticidal bait that attracts and kills a wide variety of insects, including ants, earwigs and cutworms for up to four weeks.

Active Ingredient: Spinosad, 0.07%.

50 lb. Bag (Covers 1.5 - 2 Acres)

Bonide Captain Jack's Dead Bug Brew®



Captain Jack's Dead Bug Brew is an insecticide from Bonide that targets beetles, moths, mites, and others with its active ingredient, Spinosad. Available in convenient liquid concentrate and ready-to-use dust.

Active Ingredient: Spinosad - Conc. 0.5%; RTU 0.001%.

Dust: 1.5 lb. (1,500 sq.ft.) • **4 lb.** (4,000 sq.ft.)

RTU: 1 Qt. (As Needed) • **Conc: 1 Pt.** (2,666 sq.ft.) • **1 Qt.** (5,332 sq.ft.)

Bonide Insecticidal SUPER Soap/Spinosad



Insecticidal SUPER Soap combines the top organic insecticide Spinosad with insecticidal soap for the strongest, synergistic killing action! Insecticidal SUPER Soap RTU is a patented, fast-acting, ready-to-use formula that kills 30 insects, mites and powdery mildew on a variety of crops and container plants.

Active Ingredients: Potassium Salts of Fatty Acids (0.94%) & Spinosad (0.005%).

1 Quart RTU Spray (As Needed)

Bonide Colorado Potato Beetle Beater



Colorado Potato Beetle Beater is a unique insecticide from Bonide that controls the tough Colorado potato beetle larvae using **Spinosad**, which is derived from naturally occurring ingredients. It is labeled for use on a wide variety of crop types.

Active Ingredient: Spinosad, 0.5%.

1 Pint Conc. (Covers 8,000 sq.ft.)

21^{IN}

Pest Insect & Disease Control

PRODUCTS FOR DISEASE **PLUS** PEST INSECT CONTROL



Surround® WP Kaolin Clay

21^{IN}

Also Works as a Fungicide!



Surround is a versatile organic product that increases yields and crop value and also adds protection to plants by protecting against sunburn and heat stress damage. This results in promoting plant health and higher yields under extreme light and heat with added pest reduction and damage. *Active Ingredient:* Kaolin, 95%.

25 lb. Bag (Covers 0.5 - 1 Acres)



Trilogy Neem Oil®

21^{IN}

Also Works as a Fungicide!



Trilogy Neem Oil Fungicide/Nematicide/Insecticide is a broad spectrum fungicide, insecticide and miticide for control of many types of pests. Neem Oil can be used to kill eggs, larvae and adult insects and applied as a dormant or delayed dormant spray. Trilogy is a biorational pesticide that delivers consistent performance, excellent leaf coverage with low risk to people and non-target animals

Active Ingredient: Clarified Hydrophobic Extract of Neem Oil, 70%.

2.5 Gallon (Covers 10 Acres)

•

250 Gallon Tote (Covers 250 Acres)



Bonide Neem Oil



21^{IN}

Also Works as a Fungicide!



Bonide Neem Oil is a broad spectrum fungicide, insecticide and miticide for control of many types of pests. Neem Oil can be used to kill eggs, larvae and adult insects and applied as a dormant or delayed dormant spray. *Active Ingredient:* Neem Oil, Conc. (70%) • RTU (0.9%).

1 Qt. RTU (As Needed) • **1 Gall. RTU** (As Needed) • **1 Pt. Conc.** (4,000 sq.ft.)

Neem Oil for Pro & Home Use

21 IN



GREEN EARTH
Ag&Turf
LLC

GROW IT
NATURALLY.com

NEW
PRODUCT



DES-X® Insecticidal Soap

21 Also Works as
a Fungicide!



DES-X is a natural, soft, insecticide, miticide, and fungicide that provides excellent contact control of various soft bodied insects, mites, and powdery mildew throughout their life cycles. Approved for field and greenhouse applications. Exempt from tolerances, NOP compliant and OMRI certified.

Active Ingredient: Potassium salts of fatty acids, 47%.

2.5 Gallon (Covers 2 Acres) • **30 Gallon** (Covers 24 Acres)



Bonide Insecticidal Soap RTU

21 Also Works as
a Fungicide!



Insecticidal Soap RTU is a insecticide from Bonide that kills insects on contact. It is ideal for houseplants, vegetables, flowers and fruits and can be applied indoors or out. It uses a patented formula that does not persist in the environment and can be used up to the day of harvest.

Active Ingredient: Potassium Salts of Fatty Acids, 1%.

1 Quart RTU Sprayer (As Needed)



SuffOil-X® (Mineral Oil)

21 Also Works as
a Fungicide!



SuffOil-X is a unique concentrate of pre-emulsified, highly refined, high paraffinic, low aromatic oil for effective insect, mite and disease control. 50 micron oil droplets assure a thin, uniform coating of oil is applied to the plant for a broad-spectrum insecticide that is highly effective at smothering and killing pests while maintaining plant safety.

Active Ingredient: Mineral Oil, 80%.

2.5 Gallon (Covers 2.5 Acres) • **30 Gallon** (Covers 30 Acres)



Bonide All Seasons (Mineral Oil)

21 Also Works as
a Fungicide!



All Season is a superior type of paraffinic oil that can be applied as a growing season spray, dormant spray, or delayed dormant spray to control a broad spectrum of insects. The spray targets all stages of insects including eggs up to the day of harvest on trees, shrubs, ornamentals, etc.

Active Ingredient: Mineral Oil, 98%.

1 Pint (Covers 1,350 sq. ft.) • **1 Quart** (2,700 sq. ft.) • **1 Gallon** (10,800 sq. ft.)

1 Quart RTU (As Needed) • **1 Quart HES** (As Needed)

Insecticidal Soaps

Mineral Oils

21 IN

Novel New Product Also Increases Yields, gives Better Coloration and Thickens Skins for Increased Shelf-Life and Marketability!

Sil-Matrix® (Silicate Barrier Protectant Insecticide/Fungicide)



A preventive fungicide and a contact miticide/insecticide for dual control! Sil-Matrix controls diseases such as powdery mildew and gray mold; and pest insects such as mites that it comes in contact with. With a unique mechanism of action, Sil-Matrix forms a physical barrier within the leaf cuticle that prevents penetration. *Also increases yield, coloration, shelf-stability and cuticle thickness.* Active Ingredient: Potassium silicate, 29%.

2.5 Gallon (Covers 3.5 Acres)
250 Gallon Drum (Covers 350 Acres)

21 Also Works as a Fungicide!

Sulfur-Based Fungicides & Insecticides



Acoidal Sulfur, Micronized (Pro Sulfur Fungicide)



Sulfur has multi-site activity against fungi including inhibiting respiration, disrupting proteins, producing oxidation products etc. These multiple MOAs result in the inhibition of spore germination and hyphal growth. Fungicidal activity is thought to also be a direct result of the sulfur contact with fungal cells. Active Ingredient: Sulfur, 80%.

30 lb. Bag (Covers 1 Acre)

21 Also Works as a Fungicide!



Bonide Sulfur Fungicide (Home Sulfur Fungicide)



Sulfur Fungicide is a specially prepared micronized sulfur suitable for use as a dust or spray. The fine particle size gives better coverage, adhesion and disease control. This product controls a large number of diseases on fruits, vegetables and various ornamentals. Approved for organic gardening. Active Ingredient: Sulfur, 90%.

1 lb. Shaker (Covers 1,500 sq. ft.)

4 lb. Bag (Covers 6,000 sq. ft.)

21 Also Works as a Fungicide!



Disease Control

Fungal & Bacterial

BIOLOGICAL FUNGICIDES & BACTERICIDES

CERTIS USA
Leading Biopesticides



Double Nickel 55[®] WG

Double Nickel[®] LC (Pro Versions of *B.amyloliquefaciens*)



Double Nickel is a broad spectrum preventive biofungicide for control or suppression of fungal and bacterial plant diseases. This novel biological has shown efficacy on more than 90 different diseases. Double Nickel can be used as a foliar spray or for soil applications.

Active Ingredient: WG - *Bacillus amyloliquefaciens* strain D747, 25%.
LC - *Bacillus amyloliquefaciens* strain D747, 98.85%.

WG: 5 lb. Bag (Covers 10 Acres)

LC: 2.5 Gallon (Covers 8 Acres) • **250 Gallon Tote** (Covers 800 Acres)

Revitalize[®] (*B.amyloliquefaciens* for Home Use)



Bonide Revitalize Bio Fungicide is a high potency biofungicide/bactericide from Bonide that controls blight, molds, rots, spots and mildews. It's great for use on vegetables, fruits, nuts, and ornamentals grown inside and out using natural methods rooted in beneficial microbes.

Active Ingredient: RTU: *Bacillus amyloliquefaciens* strain D747, 9.88%.
Conc.: *Bacillus amyloliquefaciens* strain D747, 98.85%.

1 Quart RTU (As Needed) • **1 Pint Conc.** (Covers 25,000 sq. ft.)

LifeGard[®] WG (Pro Version of *Bacillus mycoides*)



LifeGard WG provides broad spectrum disease control while improving yields and crop quality. Easy to use WG formulation with broad tank mix compatibility. With LifeGard there is a very low risk of developing resistance.

Active Ingredient: *Bacillus mycoides* isolate J, 40%.

1 lb. Bag (Covers 5 Acres) • **2.5 lb. Bag** (Covers 12.5 Acres)

Novel *B.amyloliquefaciens*
for Biological Pest Control

RootShield® PLUS⁺



Naturally protect plants from soil-borne diseases with the next generation of RootShield, RootShield PLUS, with two active ingredients - *Trichoderma harzianum* strain T-22 and *Trichoderma virens* strain G-41. RootShield PLUS provides *three months* of preventative control of major root diseases including *Phytophthora*, *Rhizoctonia*, *Pythium*, *Fusarium*, *Thielaviopsis* and many more!



RootShield® PLUS⁺ Granules

10 lb. Bag
(Covers 10,000 sq. ft.)

40 lb. Bag
(Covers 1 Acre)



RootShield® PLUS⁺ Wettable Powder

1 lb. & 3 lb. Bags
(10,000 & 30,000 sq. ft.)

30 lb. Box
(Covers 7 Acres)



Actinovate® AG



Actinovate AG is a 100% water soluble, biological fungicide/bactericide for use in suppressing a broad range of diseases across multiple crops and diseases including Mildews, Pythium, Phytophthora, Fusarium, Rhizoctonia, Botrytis, Alternaria and other air- and soil-borne pathogens. *Active Ingredient: Streptomyces lydicus* WYEC 108, 0.037%.

18 oz. Pouch (Covers 4 Acres)



CEASE®



Based on a naturally occurring patented strain of *Bacillus subtilis*, CEASE provides effective control of a wide array of both fungal and bacterial pathogens (especially soil-borne) while providing outstanding plant, human and environmental safety. 4-hour REI and no pre-harvest interval. *Active Ingredient: Bacillus subtilis* (strain QST 713), 1.34%.

1 Gallon (Covers 1 Acre)

• **2.5 Gallon** (Covers 2.5 Acres)



BotryStop®



Developed specifically for the control of pathogens such as *Botrytis cinerea*, *Sclerotinia sclerotiorum* and *Monilinia* spp. BotryStop utilizes the natural and novel fungus, *Ulocladium oudemansii* Strain U3. BotryStop spores deposit on dead and senescent plant debris to germinate and colonize. *Active Ingredient: Ulocladium oudemansii* Strain U3, 45%.

12 lb. Bag (Covers 4 Acres)

• **30 lb. Bag** (Covers 10 Acres)



AGBIOME®



Green Earth Ag & Turf, the leader in biological solutions for plants, trees and turf, is proud to introduce new product lines from AgBiome for 2023! A unique company with novel technologies, AgBiome partners with the microbial world to benefit the planet using their ever-expanding microbial discovery platform. They start by isolating microbes from environmental samples from across the globe, then fully sequence each microbe's genome.



Howler®



Howler fungicide, from AgBiome, is a revolutionary fungicide that harnesses the power of the plant microbiome to create an efficacious fungicide with multiple modes of action that provide preventive, long-lasting activity on a broad spectrum of soilborne and foliar diseases. Howler fungicide can be used at every phase of production: pre-plant through harvest and applied by incorporation, drip or drench applications, chemigation, and foliar.

Ingredient: Pseudomonas chlororaphis strain AFS009, 50%.

5 lb. (Treats 1 Acre) • **25 lb.** (Treats 5 Acre) • **50 lb.** (Treats 10 Acres)



Theia®



Theia fungicide is a new solution from Agbiome that provides robust, broad-spectrum protection against a variety of foliar and soilborne diseases. Through multiple modes of action, Theia fungicide blocks fungal and bacterial pathogens and activates your crops' natural defenses. Theia offers excellent control on a variety of diseases.

Ingredient: Bacillus subtilis strain AFS032321, 100%.

15 lb. (Treats 5 Acre) • **45 lb.** (Treats 15 Acre)

Disease Control

Fungal & Bacterial

COPPER-BASED FUNGICIDES & BACTERICIDES

FEAT.
CATEGORY



Kocide® 2,000-O (Granular Professional Copper) Kocide® 3,000-O



Kocide 2000-O & 3000-O has a unique formulation that allows for more disease control per pound of copper than standard coppers; less applied copper has less detrimental affects on the environment and beneficials. Kocide delivers the highest bioavailability with optimum particle size and formulation excellence. Kocide is also labeled for Frost Injury Protection. Active Ingredient: Copper Hydroxide, 2,000-O (53.8%) • 3,000-O (46.1%).

Kocide 2,000-O: 15 lb. Bag (Covers 5 Acres) • **20 lb. Bag** (Covers 6.7 Acres)
Kocide 3,000-O: 4 lb. Bag (Covers 2 Acres) • **10 lb. Bag** (Covers 5 Acres)

Cueva® (Liquid Professional Copper)



Cueva is one of the few organic curative fungicides labeled for disease management control. Cueva is labeled for broad spectrum prevention of both bacterial and fungal diseases such as Mildews, Scabs, Leaf & Fruit Spots, Blights etc. Cueva is gentle enough to be used on copper-sensitive crops and has no recorded phytotoxicity on key indicator species.

Active Ingredient: Copper Octanoate (Copper Soap), 10%.

2.5 Gallon Jug (Covers 2.5 Acres) • **250 Gallon Tote** (Covers 250 Acres)

Bonide Captain Jack's Copper Fungicide



Bonide's Copper Fungicide is formulated to protect a wide variety of plants from diseases like blight, powdery mildew, black spot and others. Available in three varieties for your convenience, Copper Fungicide can be used to protect a wide variety of fruits, vegetables and ornamental plants.

Active Ingredient: Copper Octanoate, Concentrate (10%) • RTU (0.08%).
Dust: Basic Copper Sulfate, 7%.

1 Pint HES (As Needed) • **1 Quart HES** (As Needed) • **1 Quart RTU** (100 sq.ft.)
1 Pint Conc. (8,000 sq.ft.) • **1 lb. Dust** (500 sq.ft.) • **4 lb. Dust** (2,000 sq.ft.)

ORGANIC FUNGICIDES & BACTERICIDES

MilStop® SP



A foliar fungicide that kills powdery mildew on contact by pulling water from spores and their growing strands, providing 1-2 weeks of residual protection. Preventative control of foliar diseases including Alternaria blight, Anthracnose, black spot, Botrytis blight, Cercospora Leaf Spot, Downy Mildew, Phomopsis Blight, and Septoria Leaf Spot. *Active Ingredient:* Potassium Bicarbonate, 85%.

5 lb. Bag (Covers 1 Acre) • **25 lb. Bucket** (Covers 5 Acres)

Sporan® EC2

Minimum Risk
25(b) Exempt



Sporan EC2 is a broad spectrum fungicide for use in agriculture, fruits, nuts, vegetables, ornamentals, landscapes, turf, greenhouses, and nurseries. Sporan prevents fungal spore attacks on plant tissues and can be used for diseases such as black spot on roses, anthracnose, rust and powdery mildew.

Active Ingredients: Rosemary, Clove, Thyme and Peppermint Oils.

1 Gallon (Covers 4 Acres) • **2.5 Gallon** (Covers 10 Acres)

NOVEL
MOA

**Novel Product & Mechanism of Action -
SARs Stimulate a Plant's Natural Defenses.**



Regalia® & Regalia CG (SAR & ISR Stimulator)



Regalia Biofungicide delivers better yield and improved harvest quality by stimulating a plant's innate ability to fight diseases. This fungicide offers preventative activity and early control of yield-robbing diseases. Regalia's **novel modes of action**, Systemic Acquired Resistance (SAR) and Induced Systemic Resistance (ISR), offer a unique option to simplify and extend any program. Works alone or with other fungicides. *Active Ingredient:* Extract of *Reynoutria sachalinensis* (Knotweed), 5%.

1 Quart (Covers .5 Acres) • **1 Gallon** (Covers 2 Acres)
2.5 Gallon (Covers 5 Acres)

Disease Control

Fungal & Bacterial

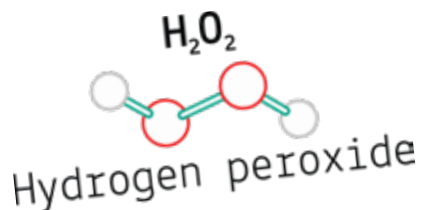
ORGANIC FUNGICIDES & BACTERICIDES

ALSO FOR STERILIZATION



PERpose PlusTM

Broad Spectrum Algaecide and Fungicide



PERpose PlusTM



A broad spectrum, specially formulated hydrogen peroxide (or hydrogen dioxide) that prevents and controls diseases and algae on turfgrass and landscape plants, hard surfaces, and potting media. PERpose Plus has been verified by the EPA to provide safe, biodegradable, and sustainable protection without harming the environment, plants, animals, or people. Dilution and application rates vary based on use. *Active Ingredient:* Hydrogen Peroxide/Hydrogen Dioxide, 33%.*

5 Gallon (Covers 3 Acres) • 15 Gallon (Covers 9 Acres)

Bulk Sizes: 55 & 275 Gallon

* Also available as a soil oxygen enhancer, but without an EPA registration number, as PERpose (without the Plus). This product has the same exact active ingredient at the same concentration but can be used and applied legally without the pesticide label or claims.

Animal Repellents



Please note: We switched our line of animal repellents from Epic's Animal SCRAM products to I Must Garden (IMG) repellents. At **GREEN EARTH Ag & Turf**, we are always looking for the best solution to our customers' needs. We have determined that I Must Garden's repellents have a higher concentration, better efficacy and a lower cost than the other natural alternatives!

Deer & General Animal Repellents



General Animal Repellent, IMG

Herbivores Such As Deer, Rabbits, Groundhogs etc.

Minimum Risk
25(b) Exempt

I Must Garden Granular Animal Repellent contains a complex blend of natural ingredients and botanical oils that form an odor barrier to protect plants from Deer, Rabbits, Groundhogs, Woodchucks and other herbivores. *Active Ingredients:* Dried Blood, Garlic, White Pepper, Peppermint Oil, Lemongrass Oil.

5 lb. Shaker (Covers 3,000 sq. ft.) • **20 lb. Pail** (Covers 12,000 sq. ft.)



Liquid Deer Repellent, IMG

Minimum Risk
25(b) Exempt

I Must Garden liquid deer repellents come in two scents both pleasant to humans but repulsive to deer. **Spice** has a cinnamon-clove scent while **Mint** has a mint-lemongrass scent. *Active Ingredients:* Peppermint, Rosemary, Cloves, Cinnamon, Lemongrass, Eggs, Fish Oil, Garlic, Kelp.

1 Quart (Covers 10,000 sq. ft.) • **1 Gallon** (Covers 40,000 sq. ft.)

MOLE AND OTHER ANIMAL REPELLENTS



Mole & Vole Granular Repellent, IMG

Minimum Risk
25(b) Exempt

I Must Garden Mole & Vole Repellent is used to rid moles and voles from lawns, gardens, flower beds etc. It works by making the food source of moles and voles smell and taste unpleasant causing the animals to leave the treated area. Super strong formula compared to other products with **15% Castor Oil!**
Active Ingredients: 20% Castor Oil, Mint Oil, Cedar Oil.

10 lb. Bag (Covers 10,000 sq. ft.) • **25 lb. Bag** (Covers 25,000 sq. ft.)



Mole & Vole Repellent Liquid, IMG

Minimum Risk
25(b) Exempt

I Must Garden liquid works just like the granular, coating the pest's food source with unpleasant tasting oil causing them to relocate without toxins, poisons or being killed or harmed. Ideal for large areas.
Active Ingredients: 97% Castor Oil, Peppermint, Cedarwood Oils.

1 Quart HES (Covers 10,000 sq. ft.) • **1 Gallon** (Covers 40,000 sq. ft.)



Dog & Cat Repellent, IMG

Minimum Risk
25(b) Exempt

I Must Garden Dog and Cat Repellent is an environmentally safe, harmless way to deter pets and stray animals from entering applied areas or burning lawns with pee. A naturally bad smell only to animals without harming them.
Active Ingredients: Garlic, Peppermint Oil, Citronella Oil, Lemongrass Oil etc.

1 Quart RTU (Covers 1,000 sq. ft.) • **1 Gallon RTU** (Covers 4,000 sq. ft.)
2 lb Granular (Covers 150 sq. ft.) • **20 lb Granular** (Covers 1,500 sq. ft.)



Groundhog Repellent, IMG

Minimum Risk
25(b) Exempt

An environmentally safe, humane, and effective way to deter groundhogs from eating plants, flowers and bark. This unique mixture of natural ingredients and botanical oils for maximum protection against groundhog damage.
Active Ingredients: Rosemary, Thyme, Mint, Fish Oil, Eggs, Wintergreen.

1 Quart Conc (Covers 10,000 sq. ft.) • **1 Quart RTU** (As Needed)



Snake Repellent, IMG

Minimum Risk
25(b) Exempt

I Must Garden Snake Repellent uses environmentally safe oils that confuse a snake's senses and encourages them to leave the area. As a granular repellent, it can be applied as a barrier around a property or sprinkled throughout an area to provide complete coverage.
Active Ingredients: Cedarwood Oil, Clove Oil, Cinnamon Oil.

4 lb. Shaker (Covers 400 sq. ft.)

Soil pH Control

NUTRITE =



NUTRITE

*Calcitic lime is **FOUR TIMES** more effective than standard limes.*

Nutrite allows for lower labor, storage & shipping costs with fewer refills!

Optimal soil pH is a major factor in nutrient availability, microbial activity, soil structure and overall turf vigor. Maintaining the correct soil pH allows for the most efficient use of applied and soil-stored nutrients. The Nutrite family of calcium and sulfur products allow you to quickly and efficiently address soil chemistry problems; quickly raising soil pH using $\frac{1}{4}$ of product of traditional limes. All Nutrite products are powered by Activated Humic Acid Technology, which has been shown to increase nutrient uptake. Most types available in both micro/greens grades and standard coarse grades.

The Nutrite family of calcium products allow applicators to quickly, efficiently and affordably address soil chemistry issues.

NOTE: Nutrite is a similar formulation and is applied at the same rates as Solu-Cal.

Products for LOWERING pH

FEATURED PRODUCT



Nutrite® EC+ with HUmoxy or Solu-Cal® Enhanced Lime

A quicker-acting lime equivalent: Nutrite EC+ with HUmoxy is a pelletized calcium carbonite that uses proprietary humic acid and fulvic acids to enhance a plant's ability to convert both applied and stored calcium into an immediately available form for plant uptake and soil pH adjustment. Nutrite applications can adjust soil pH in just 6-8 weeks!

50 lb. Bag (Covers 10,000 sq. ft.) • **Pallet of 40x 50 lb. Bags**



Nutrite® EC+ Gypsum or Solu-Cal® S **change images**

Nutrite EC+ Gypsum is an enhanced dihydrate gypsum that increases the aeration of soil to create pore space. It displaces sodium added by irrigation systems, dog urine, or other external sources. Nutrite EC+ contains 2% PCHA organic humic and fulvic acids to deliver maximum calcium and sulfur to the plants.

50 lb. Bag (Covers 10,000 sq. ft.) • **Pallet of 40x 50 lb. Bags**



Nutrite® Carbon + Humic or Solu-Cal® Humic Plus

Nutrite EC+ Carbon+ with HUMoxy is a phosphorus-free formulation that provides essential carbon forms for soil microbes. This product can be used to maximize the use of stored and applied nutrients such as nitrogen and phosphorus. It contains 6% activated humic and fulvic acids and 33% enhanced calcium.

50 lb. Bag (Covers 10,000 sq. ft.) • **Pallet of 40x 50 lb. Bags**



Nutrite® Reg Iron w/ Mag or Solu-Cal® Peak Iron

Nutrite 6-0-6 Reg Iron with Mag is a special formulation of Wolf Trax Iron, Magnesium, Nitrogen and Potash with soluble calcium from Solu-Cal containing polyhydroxycarboxylic acids (PHCA), which are derived from plant extracts in a patented process.

50 lb. Bag (Covers 10,000 sq. ft.) • **Pallet of 40x 50 lb. Bags**

Products for RAISING pH



Tiger 90CR® Elemental Sulfur

Soil pH may be lowered with application of TIGER 90CR Elemental Sulfur. Pure elemental sulfur is a vital secondary macro-nutrient that can be applied to deficient soils or around acid loving plants, where lower pH is necessary. When TIGER 90CR sulfur is soil applied and goes through an oxidation process, sulfuric acid and H⁺ ions are released, soil is acidified and pH is lowered.

50 lb. Bag (Covers 5,000 sq. ft.) • **Pallet of 40x 50 lb. Bags**

Stickers, Spreaders, Water Conditioners, Misc...



Yucca Extract Therm X[®]-70 (Spreader & Wetting Agent)

Therm X-70 is a concentrated extract from the yucca plant containing steroid saponin. Steroid saponin is a natural wetting agent that reduces surface tension. The superior surfactant property enhances water penetration in soil, relieves compaction and increases fertilizer and nutrient uptake.

- **1 Quart** (Treats 2 Acres)
- **1 Gallon** (Treats 8 Acres)
- **2.5 Gallon** (Treats 20 Acres)
- **55 Gallon** (Treats 440 Acres)



Nu-Film[®] P (Sticker)



Nu-Film P is a superior sticker and adjuvant with organic, non-ionic properties. It can be used in conjunction with pesticides to protect against the weather and is designed to increase their time of effectiveness.

- **1 Gallon** (Treats 12.8 Acres)



PERpose[™] (Soil Oxygen Enhancer)



PERpose[™] is a specially formulated 33% hydrogen peroxide that quickly breaks down to oxygen and water; this increase in oxygen levels in the soil reduces problems associated with anaerobic conditions and helps to stimulate and maintain healthy root development. Additional oxygen also helps to loosen compacted soil. This product has the exact same formulation as PERpose Plus but *without* the EPA Registration Number.

- **5 Gallon** (Treats 3 Acres)
- **15 Gallon** (Treats 9 Acres)

Stickers, Spreaders, Water Conditioners, Misc...



Yucca Extract Therm X[®]-15M (Spreader & Wetting Agent)

ThermX-15M is a powdered yucca extract that is an organic wetting agent, sticker and spreader. Made of concentrated plant extract containing the natural surfactant saponin. Yucca extract is a vital part of all liquid application programs, as it helps plants overcome stress conditions.

1 lb. (Covers 4,356 sq.ft.) • **5 lb.** (Covers 21,780 sq.ft.)

55 lb. (Covers 5.5 Acres)



Nu-Film[®] P (Sticker)



Nu-Film P is a superior **sticking-extending** aid and adjuvant with organic, non-ionic properties. It can be used in conjunction with pesticides to protect against the weather and is designed to increase their time of effectiveness.

1 Gallon (Treats 12.8 Acres)



PERpose[™] (Soil Oxygen Enhancer)



PERpose[™] is a specially formulated 33% hydrogen peroxide that quickly breaks down to oxygen and water; this increase in oxygen levels in the soil reduces problems associated with anaerobic conditions and helps to stimulate and maintain healthy root development. Additional oxygen also helps to loosen compacted soil. This product has the exact same formulation as PERpose Plus but *without* the EPA Registration Number.

5 Gallon (Treats 3 Acres) • **15 Gallon** (Treats 9 Acres)

**NEW
PRODUCT**



Wilt-Pruf® (Anti-Desiccant & Plant Protector)

Anti-transpirants are used to protect plants from drying out when under water stress such as cold drying winter winds and hot drying summer winds. Wilt-Pruf is a natural pine oil emulsion that is non-hazardous and biodegradable. Wilt-Pruf products spray dry to form a clear transparent and flexible protective coating without interfering with plant growth or materially affecting respiration, osmosis or photosynthesis.

Ready-To-Use: 1 Quart

Conc: 1 Pint • Quart • 1 Gallon • 2.5 Gallon

Water Conditioners for Hydroponics & Aquaponics

**AQUAPONICS
SAFE**



Dechlorinator Plus Water Conditioner, Microbe Life

Microbe Life Dechlorinator Plus *Instantly* detoxifies chlorine, chloramines and some heavy metals (such as copper) for worry-free growing! Highly concentrated, Dechlorinator Plus is a full-function water conditioner that will neutralize many harmful chemicals found in many water supplies. Adds essential electrolytes and acid neutralizing). Safe for plants, fish and corals.

1 Pint (Treats 960 Gallons) • **1 Quart** (1,920 Gallons) • **1 Gallon** (7,680 Gallons) • **2.5 Gallon** (19,200 Gallons)

**AQUAPONICS
SAFE**



pH Up Water Conditioner, Microbe Life

Microbe Life pH UP is formulated with R/O and UV sterilized water and combines two pH adjusters for more effective buffering capacity. pH UP contains three electrolytes to help maintain osmotic balance and pH control. Safe for both hydroponic and aquaponic uses and will never harm plants.

1 Pint (Treats 1,920 Gallons) • **1 Quart** (3,840 Gallons) • **1 Gallon** (15,360 Gallons)

**AQUAPONICS
SAFE**



pH Down Water Conditioner, Microbe Life

Microbe Life pH DOWN is formulated with R/O and UV sterilized water and combines two pH adjusters for more effective buffering capacity. pH Down contains three electrolytes to help maintain osmotic balance and pH control. Safe for both hydroponic and aquaponic use and will never harm plants.

1 Pint (Treats 1,920 Gallons) • **1 Quart** (3,840 Gallons) • **1 Gallon** (15,360 Gallons)

Eco- & Pet-Friendly Ice Melters



FEATURED PRODUCT



Groundworks Natural™ or Mountain Organic Natural™ Ice Melters

Our premium ice melter, made primarily from potassium salt and designed to powerfully melt down to -9°F (-23°C) while being eco-friendly, safe to handle and the safest for use around pets, plants, and children. Does not leave any oily residue, tracking, or soiling.



**10 lb. Bag • 12 lb. Jug • 22 lb. Bag
44 lb. Bag • 50 lb. Pail
One Metric Ton Tote (2,200 lb.)**

Arctic ECO Green® Ice Melter

A powerful all natural de-icer that is gentle on the environment, the surfaces it is applied to and harmless around children and pets. Unique uniformly-coated CMA formula is safer on concrete than standard rock salts. The green color helps prevent overspreading of the product. Effective down to -20°F (-29°C).



**10 lb. Bag • 12 lb. Jug • 22 lb. Bag
44 lb. Bag • 50 lb. Pail
One Metric Ton Tote (2,200 lb.)**

All Ice Melters should be applied at 10 lbs. per 1,000 sq. ft. unless otherwise noted.

LEED COMPLIANT

Winter Warrior Enviro LEADer Ice Melter™

Superior ECO de-icer, designed specifically to be used around all GREEN and LEED COMPLIANT buildings or properties where there are environmental or corrosion concerns. Does not result in tracking. WINTER WARRIOR can be applied in its solid granule form or dissolved in water and sprayed as a liquid. Effective to -6°F (-21°C).

CHLORIDE FREE! Apply 4 to 8 lbs. per 1,000 sq. ft.

44 lb. Bag (Pallets of 50x Bags)

One Metric Ton Tote (2,200 lbs.)



Winter Warrior Runway Control®

A special **chloride and urea free** ice melter formulation that is eco-friendly, biodegradable and non-corrosive. For use in highly sensitive areas such as airports, ferries, vehicles and other delicate commercial institutions. This safe to handle product is effective to -6°F (-21°C), results in no tracking, and is safe for plants and soil structure.

Apply 10 lbs. per 1,000 sq. ft.

55 lb. Bag (Pallets of 40x Bags)

One Metric Ton Tote (2,200 lbs.)



True North™ Ice Melter

A basic chloride blend containing no magnesium chloride or other dangerous chemicals so it will not chemically harm concrete. Due to its granule format, True North Ice Melter provides instant traction and fast melting to temperatures as low as 5°F.

22 lb. Bag • 44 lb. Bag • One Metric Ton Tote (2,200 lbs.)

Also available with blue dye - Arctic Blue™ Ice Melter



Arctic Orange™ Ice Melter

A powerful calcium chloride blend that melts to -24°F (-31°C) and generates heat on contact for faster melting.

22 lb. Bag • 44 lb. Bag • One Metric Ton Tote (2,200 lbs.)



All Ice Melters should be applied at 10 lbs. per 1,000 sq. ft. unless otherwise noted.

NON-CORROSIVE
UREA & CHLORIDE FREE

BASIC SALT BLENDS

Eco- & Pet-Friendly Ice Melters

ICE MELT PRODUCT COMPARISON CHART



	ECO-FRIENDLY PRODUCTS					GENERAL PRODUCTS				SPECIALTY PRODUCTS
	ALL PURPOSE		SPECIALTY							
	Mountain Organic Natural Icemelter	Arctic ECO Green Icemelter	Winter Warrior Enviro LEADER	Winter Warrior CMA	Winter Warrior Runway Control	Arctic Orange Icemelter	Arctic Blue Icemelter	True North Icemelter	Calcium Chloride	Arctic CLEAR Window & Mirror Deicer
Effective Melting temperature	-23°C (-9°F)	-29°C (-20°F)	-21°C (-6°F)	-12°C (10°F)	-21°C (-6°F)	-31°C (-24°F)	-15°C (+5°F)	-15°C (+5°F)	-31°C (-24°F)	-42°C (-44°F)
Colour	Beige	Green	Green	Off White	White	Orange	Blue	Off White	White	Clear
Effect on Environment	SAFE	GENTLE	SAFE	SAFE	SAFE	AVERAGE	AVERAGE	AVERAGE	SOME	SAFE
Effect on Flooring	SAFE	GENTLE	SAFE	SAFE	SAFE	AVERAGE	AVERAGE	AVERAGE	HARSH	SAFE
Effect on Vegetation / Landscaping	Nutrient for plants	Safe on plants	Safe on plants	Safe on plants	Safe on plants	Use with caution	Use with caution	Use with caution	Use with caution	Use with caution
Effect on Soil Structure	Repairs and improves soil structure	Gentle on soil structure	Safe on soil structure	Safe on soil structure	Safe on soil structure	Use with caution	Use with caution	Use with caution	Use with caution	Use with caution
Effect on Water table	Safe - more neutral pH balance	Gentler on water table	Safe on water table	Safe on water table	Safe on water table	Use with caution	Use with caution	Use with caution	Use with caution	Use with caution
Tracking & Soiling	NONE	VERY LITTLE	NONE	NONE	NONE	SOME	SOME	SOME	YES	NONE
Safe to Handle	SAFE	SAFE	SAFE	SAFE	SAFE	SAFE	SAFE	SAFE	CAUTION	SAFE
Extends Freeze Thaw	YES	YES	YES	YES	YES	SOME	YES	YES	NO	NO
Health Hazard	Safe - in fact, used in pet foods	SAFE	SAFE	SAFE	SAFE	AVERAGE	AVERAGE	AVERAGE	Dust should not be inhaled	Spray should not be inhaled
Safe around Children	Safe, will not harm skin	Safe, will not harm skin	Safe, will not harm skin	Safe, will not harm skin	Safe, will not harm skin	Use with caution, gloves must be worn	Safe, will not harm skin	Safe, will not harm skin	Will burn skin, gloves must be worn	Use with caution
Safe around Pets	SAFE, will not harm paws	SAFE	SAFE	SAFE	SAFE	Use with caution	AVERAGE	AVERAGE	Do not use around pets	Do not use around pets
Corrosion Inhibitor	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO
Shelf Life	VERY LONG	LONG	AVERAGE	AVERAGE	AVERAGE	AVERAGE	LONG	LONG	SHORT	AVERAGE
Caking (When exposed to humidity)	NO	VERY LITTLE	LITTLE	LITTLE	LITTLE	SOME	LITTLE	LITTLE	YES	NO
Completely Chloride and Urea Free	NO	NO	YES	YES	YES	NO	NO	NO	NO	YES
LEED Building Compliant	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO

MORE PRODUCTS
& SIZES AVAILABLE

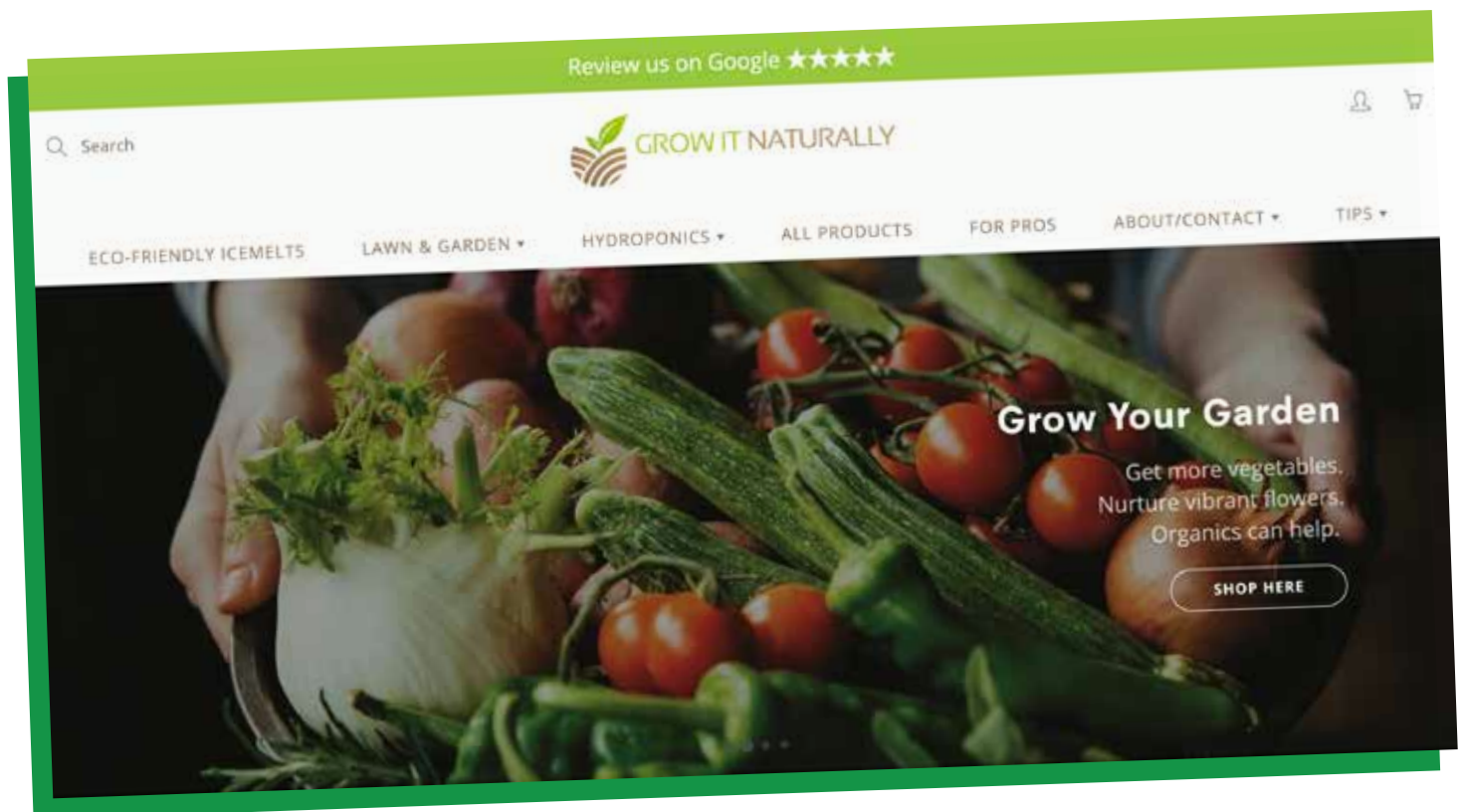
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2024 Catalog Credits

Thanks to our team of Vin and Pete for all the hard work completing the catalog every year.
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