

Discover Verdanta[®]



Biofertilizers



BioWorks[®]

BioWorks Inc. Mission Statement

BioWorks proudly serves growers across North America and the throughout world.

For more than 20 years BioWorks has been helping our customers in the horticulture, agriculture and turf markets develop effective and efficient custom programs using products that are safe and proven. We are continuously reinventing the way our customers work by providing biologically-based, integrated, safe solutions and programs.

Our experts are here to work with your individual growing needs while being mindful of the safety of your workers and the environment. With products for disease control, insect control and plant nutrition we'll develop programs with you to keep your plants healthy and strong from start to finish.

Ensure the quality and integrity of the crops your customers enjoy – incorporate the BioWorks family of products into your crop protection program today.

For the full line of BioWorks products, **visit www.bioworksinc.com**.



Exclusive MINIGRAN Technology

All granular products feature the proprietary MINIGRAN® Technology. Developed in 2001 by DCM Corp. of Belgium, this unique formulation process delivers user-friendly, low odor, low dust, microgranules. Each tiny granule contains uniform nutrient content for better controlled nutrient delivery. Because the release of nutrients matches the demand of the plant for up to three months, there is little to no leaching into the environment.

MINIGRAN's unique structure offers many advantages compared to pelleted or crumbled fertilizers:

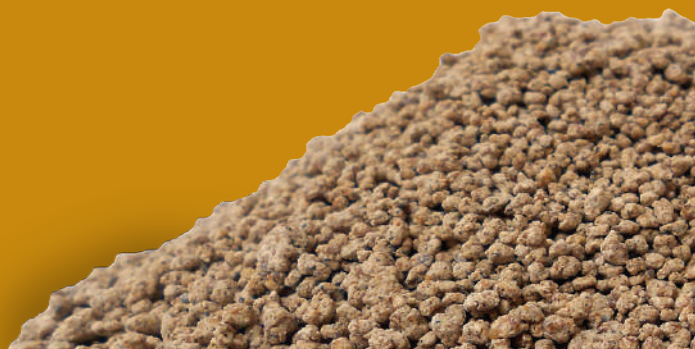
- Low-odor
- Better controlled nutrient delivery
- Dust-free
- Ensures efficiency
- Homogeneous microgranules
- Minimal nutrient leaching

Due to their distinctive structure and small size, Verdanta MINIGRAN biofertilizers can be spread evenly on fruit and vegetable crops, and as a top dressing on ornamental pots. Their very small size allows for excellent distribution in or on the soil for consistent feeding.



Benefits of Organic Ingredients

An advantage to the blend of organic and mineral fertilizer sources are the release characteristics of the granule. For example, phosphorus from purely mineral sources, such as superphosphate, triple superphosphate, or ammonium phosphate is tied up quickly in high pH soil or readily leached from peat-based potting mixes. The presence of organic nutrient sources in Verdanta MINIGRAN products adds slowly released nutrients that attracts a diversity of beneficial microorganisms. These microorganisms, reduce the pH around the granule while they break down and feed on the organic sources. The pH drop immediately around the granule makes the nutrients more available to plant roots.



Growing Strong

Verdanta® liquid and granular biofertilizers are developed to enable growers to cultivate stronger, healthier crops while being respectful of the environment. Utilizing years of expertise and testing, these innovative products are specially formulated to ensure your ornamentals, fruits and vegetables get the precise amount of nutrition they require. Use Verdanta to grow better quality plants, and save time and money while providing worker and environmental benefits.

Meticulously selected, high-quality ingredients

Our superior formulations are carefully selected from high quality raw materials to ensure gradual, long-lasting nutrient release, enhancing plant growth and quality.

Grow in a dynamic and healthy environment

Verdanta biofertilizers enrich the soil environment, increasing the amount of organic matter to boost the activity of microorganisms, thus enabling the best possible root growth for your plants. With **up to four times less leaching**, your plants will get the most out of the nutrition available, with minimal effect on the environment.

Discover Verdanta... **Unique, premium quality fertilizers**

- Uniform growth and color
- Long term nutrient availability
- Increased root mass/density

Discover the results for yourself – robust, healthy, beautiful plants with uniform growth. **Grow strong with Verdanta!**





Provides foliar iron and improves greening up of leaves

Verdanta® OFE

Water Soluble Liquid • Foliar Iron Fertilizer with Seaweed Extract

OFE chelated iron foliar spray (3-0-0 + 3% iron) is derived from both organic and mineral sources. It contains urea to help move iron into the plant leaf tissue and contributes to greening up leaves. OFE also contains 3% seaweed extract which is an excellent foliar feed producing better greening and growth of all plants.

Advantages and Uses

OFE is a true foliar feed that supplies chelated iron from both DTPA and Iron Citrate. It offers rapid and better iron absorption when applied to leaves, resulting in better greening. OFE leaves no residue and is easily applied so there is lower risk of leaf injury. It also corrects foliar chlorosis, caused by soil pH or high heat. OFE is best used as an iron deficiency preventative.

Size: 1 gal, 2.5 gal containers, 30 gal drum



Discover the Verdanta difference.

Always read and follow label directions. Contact BioWorks for additional recommendations or advice.



Stimulates rooting and enhances flowering

Verdanta® RM-1

Homogeneous • Granular • Compound Fertilizer

RM-1 is a high phosphorus mixture (4-30-0) of organic and mineral nutrient sources that provide nitrogen and phosphorus to plants. RM-1 stimulates rooting, enhances flowering in short-term crops with initial application, or on longer crops with a second top-dressed application. Its easily absorbable phosphorus source remains available to the plant for several months.

Advantages and Uses

Because RM-1 has better phosphorus availability, it can be used with many fertilizer programs to provide a base level of phosphorus suitable for any crop, and especially those that have high P demands. It is especially useful in high pH soils, and in cold temperatures. RM-1 is also beneficial when used in seed or vegetative propagation for enhancing root growth. Incorporate RM-1 into any potting medium to complement your nutrition program where added phosphorus can be of benefit.

The MINIGRAN technology in RM-1 means every granule contains the same amount of N and P, providing better nutrient distribution and availability.

Longevity: Approximately 3 months at 60° F/ 15° C.

Size: 40 lb bags packed 60 bags/ pallet (2400 lb/pallet)





Excellent general purpose mixture

Verdanta® GM-2

Homogeneous - Granular - Compound Organic-based Fertilizer

GM-2 is a general purpose mixture (7-6-12 + 2.3% magnesium) containing a diversity of organic and mineral nutrient sources. It is an excellent overall feed for most crops grown in field soil or potting mixes including herbs, vegetables, annuals, and perennials.

Like the other granular Verdanta products, GM-2 is not a blend of separate particles of each ingredient. Instead, every MINIGRAN® microgranule contains the same amount of N, P, K and Mg for superior nutrient distribution.

Advantages and Uses

This all-purpose mix provides early plant response in cool temperatures and continued nutrient release. The variety of organic, non-composted nutrient sources attracts a broader array of microorganisms. This microbial activity and the resulting nutrient release increases the “biology” of your soil or potting mix.

Recent BioWorks’ trials with GM-2 have generated interest with growers looking for a slow release fertilizer that doesn’t have the added risks of a temperature-dependent coating when temperatures spike. When combined with a suitable micronutrient package and used alone or in a constant liquid feed system as a base feed, GM-2 provides an excellent evening-out of nutrient availability.

GM-2 has also shown good plant growth and color response in woody ornamentals when applied as a summer top-dress in the Upper Midwest when excessive late season, freeze susceptible growth is unwanted.

Combine GM-2 with other Verdanta products such as RM-1, K-Vita, PL-2 and OFE to provide a variety of nutritional programs for ornamentals and vegetables.

Longevity: Approximately 3 months at 60° F/ 15° C.
Size: 40 lb bags packed 60 bags/ pallet (2400 lb/pallet)



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Provides supplemental potassium. Great in combination with nitrogen-based fertilizer.

Verdanta PL-2

Liquid Suspension • Compound Organic Fertilizer

PL-2 is derived from 100% organic ingredients (2-0-6). It can be used as an organic liquid feed to supplement potassium for any crop. Its low salt index means lower ECs in the growing medium.



Advantages and Uses

This organic compound liquid fertilizer is appropriate for use in organic production and it stimulates the existing microbial populations in soils or potting media. PL-2 is designed to provide supplemental potassium. As a liquid suspension it is suitable for fertigation, and can therefore be applied with sprinklers or drip systems. For best results combine PL-2 with a nitrogen-containing base fertilizer. Use PL-2 on greenhouse and nursery ornamentals, vegetables, herbs, and fruits.

Size: 1 gal, 2.5 gal containers, 30 gal drum; 211 gal tote





Organic general purpose mixture. Promotes fast rooting.

Verdanta® EcoVita®

Homogeneous - Granular - Compound Organic Fertilizer



EcoVita is a general purpose mix derived from 100% organic sources (7-5-10) including organic phosphorus to promote fast rooting. EcoVita is not a blend of separate particles of each nutrient source. Instead, the MINIGRAN Technology creates a uniform composition in each granule, consisting of the same amount of N, P and K for precise nutrient distribution and availability to plants.

Advantages and Uses

EcoVita's organic blend is ideal for diverse applications, thanks to its gentle release. Nutrients are gradually released by soil microbes and production of humus for better rooting and less leaching. EcoVita provides long-lasting and continuous nutrient availability for up to 100 days. It is well suited for potting mixes, leafy vegetables, top dressing for fruiting vegetables, and all ornamentals.

Longevity: Approximately 3 months at 60° F/ 15° C.

Size: 40 lb bags packed 60 bags/ pallet (2400 lb/pallet)



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Extra potassium to produce sturdier plants

Verdanta® K-Vita®

Homogeneous - Granular - Compound Organic Fertilizer

K-Vita is derived from 100% organic sources (2-0-20) and provides extra potassium to assist in producing stockier, more robust plants with shorter internodes. Its MINIGRAN formulation ensures the same amount of N and K is in every granule, giving plants optimal nutrient distribution.



Advantages and Uses

The high potassium content (20% K_2O) in K-Vita provides slow, but continuous release of nutrition to ornamental or vegetable crops. Nutrients are gradually released by microbial activity which produces humus for better rooting and less leaching. K-Vita is useful to harden ornamental or nursery plants, when little nitrogen is needed.

K-Vita can be used with many fertilizer programs to provide a base level of potassium for vegetables and other crops that benefit from a continuous source of available K. Adequate potassium nutrition leads to increased stem strength and stress tolerance. K-Vita has been used by cabbage growers to improve survival and growth of field transplants.

Longevity: Approximately 3 months at 60° F.

Size: 40 lb bags packed 60 bags/ pallet (2400 lb/pallet)





Organic high nitrogen product excellent for many crops

Verdanta® N-Vita™

Homogeneous - Granular - Compound Organic Fertilizer

N-Vita is a higher nitrogen mix derived from 100% organic sources (9-4-3). The increased nitrogen promotes foliar growth in some crops. N-Vita is not a blend of separate particles of each nutrient source. Instead, the MINIGRAN Technology creates a uniform composition in each granule, consisting of the same amount of N, P and K for precise nutrient distribution and availability to plants.

Advantages and Uses

N-Vita's organic blend is ideal for diverse applications, thanks to its gentle release. Nutrients are gradually released by soil microbes and production of humus for better rooting and less leaching. N-Vita provides long-lasting and continuous nutrient availability for up to 100 days. It is well suited for potting mixes, leafy vegetables, top dressing for fruiting vegetables, and all ornamentals.

Longevity: Approximately 3 months at 60° F.

Size: 35 lb bags packed 60 bags/ pallet (2100 lb/pallet)



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Verdanta®

For more product details and technical sheets,
visit www.bioworksinc.com or **call 800-877-9443**
to speak to a BioWorks Technical Expert.



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