



The Best Thing That Happened To Earth

Soil Secrets LLC develops products which instigate the natural biochemical process required for healthy soils and proper plant nutrition. This process is referred to as the 'Soil Food Web'. All products of Soil Secrets meet the benchmark of the USDA National Organic Program and with Certifier approval can be used on Organic Certified farms. The products are also safe for use on home gardens and lawns, without fear of damaging the environment or exposing our bodies to hazardous chemicals. The nutrients of Soil Secrets products are natural and productive for soil health, without the soil damaging effects of high analysis fertilizers. Can be used on the landscape construction and maintenance of USGBC LEED Certified buildings as the products of Soil Secrets provide a multitude of benefits, from conserving water by improving the drought tolerance of plants and improving the storage of water in soils, increasing the amount of Phytoremediation (bioremediation using plants) by maximizing efficiency of photosynthesis, improving sequestering of atmospheric CO₂ into plant liquid energy instigating the flow of liquid carbon into the soil thereby providing a nutrient source for beneficial soil microbes. Using Soil Secrets flagship products instigates, primes and supports Pedogenesis, the accumulation of soil carbon and development of top soil.

The foundation of the Soil Secrets protocol is based on Mycorrhizal fungi for inoculating plants, fixing the biochemistry of soils using Supramolecular Soil Carbon molecules essential for a healthy and productive soil, and our exclusive organic nitrogen protein product, ideal for fortifying the Soil Food Web.

Soil Amendment Products include:

TerraPro® *What's the Benefit of this product? It's Soil Carbon.* Soil Carbon is all about function of the soil, where it encourages microbial activity at the root zone, making trace elements and water more available to the plant. This improves plant nutrition and health. A healthy plant is more "Nutrient Dense" (vitamins and minerals) when it can get proper transfer of trace elements from the soil into the plant. Not all carbon soil amendments are equal as the molecular carbon active ingredient found in **TerraPro®** can be used in the remediation of corrosive, toxic and salty soils, in situations where compost and other carbon soil amendments fail. It also plays an essential role in the structure of a healthy and productive soil. **TerraPro®** is available in industrial, home-owner and agriculture grades. **If your goal is to build a healthier top soil, TerraPro® can be added to your soil to speed up the process!**

Supra-H Complex® H is for Humic Acids the generic name for the Supramolecular humic molecules of soil. While TerraPro is a dry formulation Supra-H is a liquid containing the essential soil carbons of nature made liquid for easy application in foliar, drip or hydroponic systems. Not as concentrated in the molecular carbons as TerraPro, Supra-H is not appropriate for packing the soil structure with the maximum amount of these powerful biologic carbon molecules if your trying to fix problem soils!

Protein Crumbles® Nitrogen is needed by all plants and soil microbes. Protein contains Amino Acids and Amino Acids contain Nitrogen. Protein feeds the soil's micro-organisms and slowly provides nitrogen to the landscape of plants without damaging the environment or surface and ground water with Nitrate leaching. Our protein has no salt index and supports the mycorrhizal plant relationship, therefore its the best way to provide the nitrogen that all crops and all landscape plants need. Not all protein sources are equal or contain the highest percentage of Nitrogen per pound of protein. Soil Secrets developed this product from selected vegetable proteins, to provide the highest **'Protein Efficiency Rating'** possible including all the essential amino acids.

The better the quality of protein, the more Nitrogen per gram of protein.

Mycorrhizal Products:

Mycorrhizae are a beneficial plant root fungus that are known to help plants uptake Phosphorus and other mineral nutrients (trace elements). In food crops this helps the farmer grow "Nutrient Dense" food. They help plant roots penetrate further into the soil, accessing water and minerals the plant could otherwise not get. This improves the health and the drought tolerance of the plant. Mycorrhizae are also a critical part of soil building by adding carbon and organic nitrogen to the soil.

“Developing agricultural practices using the fungus as an inoculum could help bring back low-input agriculture and enable cultivation of arid or semi-arid lands because the fungus promotes drought resistance in the plants it colonizes” said Peter Lammers of New Mexico State University in 2003. When a plant has that fungus association it is called being Mycorrhizal. The size of the mycorrhizal network of hyphae (the roots of the fungus) as compared to its host plant can be tenfold larger. This can be significant when looking at the total amount of organic matter cycling in the soil each year with an annual crop. It’s also a huge benefit to the host plant as it allows the Mycorrhizae to penetrate much deeper and wider into the soil, finding water and minerals such as Phosphorus that the host plant cannot reach or uptake on its own. The fungus can solubilize minerals that are tied up by using chemistry that a plant does not have the ability to produce. **Therefore more water and more minerals get into the plant when it has help from the mycorrhizal relationship!**

EndoMaxima® - White Lightning® - MycoMaxima Professional®

EndoMaxima professional quality concentrate, applicable to farming and industrial use. Using a generalist species called *Glomus intraradices* that associates with grasses, herbaceous plants, most short season crops and most fruit trees. This product is applicable to farming as the spore count per pound is concentrated enough that the product can be used with sophisticated planters while lower spore count products plug up the equipment with debris. EndoMaxima is used in agriculture, mine reclamation, hydroseeding, highway revegetation and by home owners wanting green organic landscapes.

White Lightning is a blend of both Endo (arbuscular mycorrhizal fungus) and Ecto mycorrhizal fungus applicable to diverse landscapes of trees, shrubs, grass etc. Used by greenhouse tree growers, container growers of short season crops and home owners planting a diversity of plants that can use both types of mycorrhizal fungi.

MycoMaxima Professional Landscaping, Mine Reclamation and Erosion Control. This product is for professionals charged with the responsibility of installation plant material such as trees, shrubs, annuals and perennials into engineered projects. It contains a broad spectrum of mycorrhizal species of both Endo (arbuscular mycorrhizal fungus) and Ecto, blended into Soil Secrets TerraPro formulation, providing a nice combo of mycorrhizal and humic soil amendment benefits all in one step.

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