



REBUILD. RESTORE. RENEW.

NEWS RELEASE

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Unlock Your Soil's True Potential with Nutra-Hume

Bio S.I.'s unique formula brings the power of humic acid to farmers and gardeners, alike

Justin, TX – April 2013 – In a March 2013 article written by Farm Journal's Conservation and Machinery editor, Darrell Smith, explains that a ratio of sixty percent water and forty percent air in a soil's pores creates the optimal conditions for plant root systems and the supporting microbial bacteria that are present.¹ This ratio is a sign of healthy soil. However, not all soils are created equal to start in the sense of how loose they are, or how well they retain water. Loose, healthy soil is characteristically comprised of a healthy humus layer, and the oft-overlooked key for unlocking a soil's ability to create a healthy humus layer is humic acid. Humic acid has only recently come into the spotlight for being popular among serious organic gardeners and farmers, with vast benefits to all soil types. While it is still not widely available in many gardening and agriculture outlets, Bio S.I. Technology (www.biositechnology.com) has developed their proprietary Nutra-Hume formula. As a leading manufacturer of microbial soil amendments, Bio S.I. developed this formula to bring the benefits of humic acid to different crops and soil types.

Humus content is comprised of a complex aggregate of brown and dark amorphous substances that are a result of the biodegradation of organic matter in the soil by microbial bacteria. Humic acid is one of the principle components of the humus layer, and the commercial term used to refer to the humic and fulvic acid content found in these naturally-occurring accumulations. It is one of the most bio-chemically active materials in soil, and humic acid comes from Leonardite which are compounded humified substances that are thousands of years old. Bio S.I.'s Nutra-Hume is a 12% humic acid that is specifically derived from Leonardite.

Nutra-Hume is especially useful for improving clay-based soils by breaking it apart to allow for better water penetration, and also extremely useful for sandy soils by adding the necessary carbon fraction of the soil to help retain nutrients and water which are vital to plant growth and root development. Humic acid aids in nutrient uptake by acting like a carrier of nutrients for plants and unlock previously unattainable nutrients. It also has the ability to stimulate microbial activity in soil by providing a carbon-based food source for microbes. These soil microbes are vital in helping plants obtain nutrients such as phosphorous and nitrogen, because they are responsible for making them available for plants. Soil microbes also improve the structure of soil by breaking down organic matter (plant debris) into humus which helps water and nutrient retention in the rhizosphere.

Nutra-Hume is not by any means a replacement for fertilizer, but is an additive for enhancing fertilizer programs and improving the efficiency of any fertilizer used. Humic acid additives have a

¹ http://www.agweb.com/article/soil_air_and_water_unite/



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powerful application in gardening and agriculture by promoting plant growth, and stimulating root systems, by improving a plant's resistance to root-based diseases and can improve yield potential when applied to total fertilizer and irrigation programs. Bio S.I.'s Nutra-Hume can be applied to row crops, lawns and gardens, flowerbeds, and wherever there is a need to improve soil health. Use one quart per acre for agriculture use for soils that need some help. For soils that are hard compacted and need more carbon use 2-3 quarts per acre twice a year and it should be diluted at a rate of one part Nutra-Hume to ten parts water. In Lawns and Garden use one ounce per gallon of water and use 6 ounces of this mixture per 1000 square feet.

About Bio S.I. Technology

Bio S.I. Technology, LLC is a USDA BioPreferred™ member and includes a team of experts who have over 20 years of experience producing microbial products. Bio S.I. produces a variety of microbial products including Bio S.I. Turf Formula, Turf Select, Lawn & Garden Formula, Lawn & Garden Select, Agriculture Formula, Pond Formula, Septic Cleanser Formula, Remediation Formula and JACKPOT, a new product which brings the naturally beneficial soil borne microbes found in nature to animals. For more information about Bio S.I. Technology, or to purchase their cutting-edge formulas, please visit www.biositechnology.com.

If you would like further information, images, or would like to schedule an interview with Wayne Tucker, CEO of Bio S.I. Technology, please contact Lindsey Beedle via email at lbeedle@christiecomm.com or by phone at 805-969-3744.