

Mikronite™

Trace Nutrient Package

EARTHWORKS NATURAL ORGANIC PRODUCTS, INC.

Mikronite is a carbon based foliar trace nutrient package designed to help reduce plant stress and build a level of immunity against disease and insect pressure. Trace elements are typically very immobile in most turf environments. **Mikronite**, with its carbon base, not only provides a host of needed trace elements but the carbon allows for maximum uptake. Trace elements act as the “spark plugs” that fire the engine of enzyme production needed for photosynthesis, protein production and synthesis and translocation of carbohydrates. Trace elements are important in the creation of plant protective compounds known as “phytoalexins”, an antimicrobial family of secondary plant metabolites necessary for immunity against insect and diseases. **Mikronite** focuses on boron, copper, zinc, manganese, cobalt, and molybdenum and de-emphasizes iron because of the excessive amounts of iron found in most turf soils. A host of other trace elements are also found in **Mikronite** through the use of trace rich carbon products like Sea Water and Red Worm Tea Extracts. This complex carbon based formula is unique in the industry and incorporates all of the benefits of soluble nutrients and carbon activators to improve uptake.

The EarthWorks Process

Manufacturing of the EarthWorks liquid products starts first with excellent water. We use only reverse osmosis water so that no minerals can chemically react with the ingredients in our formulas. The result is water that is absent of total dissolved solids, alkalinity, carbonates and conductivity. The water is then further treated so that the water molecule can be expanded as far as possible to allow it to become fully saturated with the diversity of ingredients that go into the **Mikronite** formula. The recipe is then loaded through a process called “stacking”, a proper sequence of mixing that creates maximum saturation of the water by the nutrients, to allow for ingredient compatibility. Finally, the products are micro-screened in order to create a non-plugging filtrate for trouble free applications.

The EarthWorks Liquid Organics are the most complex formulas available. They are developed to work synergistically with each other and with other nutrient based products. Applied on a “small but frequent” basis, **Mikronite** will become a staple in any turf management program.

EarthWorks 
NATURAL ORGANIC PRODUCTS

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soilfirst.com



LIQUID
ORGANICS

*Foliar Trace
Nutrients*

Carbon Based

Fights Disease &

Insect Attack

Stimulates

Microbes

Reduces

Plant Stress

Multiple Forms

of Traces

Mikronite™ *Trace Nutrient Foliar Package*

Since most turf environments suffer from high amounts of physical pressure or heavy amounts of sand in their construction or root zone profile, soil biology suffers and trace nutrient mobility is typically very weak. The lack of available trace elements affect the plant's ability to fight off disease and insect attack, and can increase total plant stress. **Mikronite** provides as many as 90 trace elements with a focus on boron, copper, zinc, manganese, cobalt and molybdenum but it's the carbon base that makes this product so effective. It is a powerful foliar product that allows nutrients to be taken in through the leaf and it is also very powerful at allowing nutrient uptake through the soil. **Mikronite** can make a significant improvement to any turf or ornamental program foliar or soil program by adding needed trace elements.

EW Mineral Complex – Multiple forms of foliar trace elements are present including boron, copper, zinc, manganese, cobalt and molybdenum all of which are essential in building a protection from insect and disease attack. As many as 90 trace elements are present in this package in the various carbon based ingredients.

Black Strap Molasses – An excellent source of invert sugars, trace elements such as iron, copper, zinc and sulfur. A powerful carbon source for soil microbes to help increase nutrient mobility.

Humic Acid – A long chained carbon of alkaline extracted geologically concentrated humus, rich in organic acids that stimulate beneficial soil fungi. Acts as a chelating agent for micro-nutrients and a sequestering agent to help fracture chemical bonds held tight improving mobility of phosphorous, calcium and iron.

Fulvic Acid – A long chained carbon of an acid extracted geologically concentrated humus that becomes available over a wide range of pH in the soil. Works electrostatically as a chelating agent helping to stabilize and hold nutrients in the root zone. A sustainable food source for beneficial microbes.

Sea Water Extracts - This product uses a proprietary process to remove sodium from ocean water, which has shown to provide all 90 trace elements common in the ocean as well as all the biological residues that are affecting both plant health and microbial stimulation.

Worm Tea Solution - Red worm tea compost is extracted and used as a water substitute to provide a powerful food source to jump start biological activity in the root zone. It provides a significant amount of both macro and micro nutrients in a solution that increases their mobility factors.

Kelp – A powerful heat stress reducing agent loaded with as many as 60 trace elements. It is a great source of short chained carbon to help jump start microbial activity in the root zone.

Fish Meal – A medium chained carbon source rich in both macro and micro nutrients providing a sustainable food source that can grow strong microbial populations in the root zone.

Surfactants – Multiple forms of surfactants are used to help the product break through the soil surface and works as a spreader sticker to help increase foliar uptake.

APPLICATION RATES & PROGRAMS:

Greens & Tees – 5 oz. per 1000 sq. ft. every two weeks. Split applications to every week on light sandy soils. Increase rates to 8-10 oz. per 1000 sq. ft. on sites with poor vigor and color or under times of limited sunlight.

Fairways – 1 gallon per acre once per month or as needed.

Sports Fields – 1.5 gallons per acre once per month or as needed.

Ornamentals – 4 oz. per 2 gallons of water drenched into the soil.

Mikronite can be tank mixed with most turf products.

A bench test is always recommended

*The EarthWorks Liquid Organic
Carbon Based Products are the key
to success when building a
healthy environment.*

EarthWorks
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