

"ORGANIC" MICRO BOOST CHELATED MICRONUTRIENTS

GENERAL INFORMATION:

MICRO BOOST is designed for foliar application, to prevent and correct pre-existing Micro nutrient deficiencies as indicated by plant leaf and soil testing or when visually seen. Commonly represented as yellowing leaves. The ingredients in **MICRO BOOST** are 100% water soluble and chelated. It is immediately available to the plant therefore making this product extremely efficient for the plant to pick up in situations where a rapid response is desired. Results are often evident two to four days after application.

Why include micronutrients to your tree crop?

Plants need more than just NPK (Nitrogen, Phosphorus, Potash,) to survive in a healthy state. NPK will help make the plant or tree grow, but it's the micronutrients that will allow it to grow in a healthy state. Micronutrients will add more quality and mineral content to the plants. Just the same as humans need more than just food to survive in a healthy state they also need an array of minerals and vitamins such as Manganese, Zinc, Iron, and vitamin A to E. Research has shown the plant can assimilate micronutrients better via foliar application than if the micronutrients were applied to the soil via a granular application. The response is quicker and seems to be more effective.

Why should the trees be deficient in Micro Nutrients? There may be plenty of Micronutrients in the soil and it may show high on the soil analysis. But it is not always available for the plant to pick up. **EXAMPLE:** In irregular pH soils, Micro Nutrients is less likely to become available for the roots to pick up or utilize, than in normal pH soils. Also micronutrients cannot be absorbed as a simple ion unless they are in a Chelated form such as our line of micronutrients

We use Organic-chelating compounds to make our MICRO BOOST™ more effective. MICRO BOOST™ is acceptable in Organic standards and contains no EDTA chemical chelates. The advantage of using Organic chelates over EDTA chemical chelates are:

**EDTA chemical chelate will pick up or lock other elements in the soil causing them to be unavailable to the soil.*

**EDTA chemical chelates are synthetic and contain no nutrient value and are not recognized as Organic.*

**An organic chelate provides the plants with a sugar source after it has finished its job making the micronutrient more available.*

**Organic chelates do a better job as a chelate compared to EDTA chemical chelates.*

When adding to other products a jar compatibility test is always recommended.

Why Do I need Micronutrients? What does each nutrient do?

Iron (Fe) Gives green color to plants. Iron is part of the make up of enzymes. It also Aids in protein synthesis, photosynthesis and the metabolic functions of the plant. Iron is needed for chlorophyll synthesis.

Zinc (Zn) speeds up the metabolic rate of the plant. Zinc deficient plants will have impaired cell functions. Zinc is also part of the make up of enzymes, which is vital for the metabolic rate of the plant. If Food is grown without the adequate supply of micronutrients can cause; intestinal problems (poor utilization of food), low production of proteins, skin problems, falling hair, sexual dysfunctions, birth defects and retarded growth.

Manganese (MN) Manganese is part of the make up of enzymes. Also aids in photosynthesis and the metabolic functions of the plant.

Magnesium (Mg) Available micronutrient for plants. Important to have soil ph over 4.5 or can be toxic to plant. Can be considered as a secondary nutrient, rather than a trace nutrient.

Boron (B) Aids in the metabolic function of the plant and aids in cell division.

Molybdenum (Mo) Molybdenum is part of the make up of enzymes. Aids in the metabolic functions of the plant. Molybdenum is also needed for nitrogen fixing bacteria.

Sulfur (S) Sulfur is part of the make up of enzymes and proteins. Aids in the metabolic functions of the plant.

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How to Spot these Deficiencies
(yellow leaf syndrome)

These problem areas are rather easy to spot and are curable when the right amount of **MICRO BOOST™** is applied. If you notice symptoms such as yellowing and chlorosis veins on your leaves you know you will have a problem that must be fixed in time or the problem will only get worse.

If untreated, soon the yellow veins or blotchy yellow spots will grow over the entire leaf and then the leaf it will begin to curl and brown along the edges. If not treated it will begin to brown the entire leaf, killing it and the leaf eventually falls to the ground. Waiting until the leaf is brown maybe to late to cure or reverse the damage, so action must be taken quickly, when the problem of yellowing is first spotted.

How much do I apply to my trees?

For tree crops that have already been infected with these Deficiencies (yellow leaf syndrome) you will need to apply no less than **1 liter per 1000m²** or **1 ml per 1 m²** of spraying area covered. (3-4 quarts per acre)

For tree crops with little or no visual problem, use a preventative maintenance spray, to prevent these deficiencies from appearing at a rate of **500ml per 1000m²** or **1 ml per 2m²** of spraying area covered. (2 quarts per acre)

Available Standard Blends

Micro-Boost

Our regular micro-nutrient spray. Organic chelated spray for combination micro-nutrient spray deficiencies. Magnesium as (Mg), Iron as (Fe), Zinc as (Zn), Manganese as (Mn), Boron as (B), Molybdenum as (Mo), Sulfur as (S).

Micro-Boost MZFe

A superb Manganese, Zinc and Iron mix. Organic chelated spray with Manganese as (Mn), Zinc as (Zn), Iron as (Fe).

Micro-Boost Mn

A total Manganese micro-nutrient package. Organic chelated spray with Manganese as (Mn).

Micro-Boost Fe

A complete Iron micro-nutrient Package. Organic Chelated spray with Iron as (Fe).

Micro-Boost MZ

A powerful Manganese-Zinc Micro-nutrient Package. Organic chelated spray with Manganese as (Mn), Zinc as (Zn).

Micro-Boost Mg

A quality magnesium micro-nutrient package. Organic chelated spray with magnesium as (mg)

Micro-Boost Zn

A high level Zinc micro-nutrient package. Organic chelated spray with Zinc as (Zn).

Mag Hume

A Humic / Fulvic acid, magnesium mix. Organic chelated spray with humic / Fulvic acid and magnesium as (Mn).

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Custom Blends upon request. Minimum Orders apply

For additional information on these blends please see our website. www.uas-cropmaster.com