



CROP LINE

A Growing Newsletter  Creative Research Original Products

11-8-5 Mic-Ro-Pac

CL#20 Part 1

'Huh! What in the flip is that?' This is typically what we hear when we attempt to discuss this product. 'Uhhuh. So what does it do? What's it for?'

We would like to note that this will be a 2 part issue so that we can expound a bit on what **Mic-Ro-pac** is and what it can do for you. When we say it is 'A multi purpose liquid fertilizer plus micronutrients', we lose people's attention. Because everyone has heard of a brand 'x'....you know...the one that's supposed to make your yield the best ever.

Specifically **Mic-ro-pac** is a liquid foliar fertilizer containing nitrogen, phosphorus, potash and all of the minor elements needed to increase yield and keep crops healthy. It has the additional benefit that it can be used on most all crops. That said, we need to separate the idea between dry and foliar. Depending on what type of fertilizer you use, dry fertilizer takes a few days up to a few months to break down in the soil in order for the plant to absorb it.

But we want to be sure that you understand that foliar fertilizer will not replace dry fertilizer. Foliar feeding is a technique for feeding plants by applying liquid fertilizer directly to the leaves. The most touted benefit of foliar fertilizer is its capacity to promote maximum nutrient absorption. This is because foliar fertilizers cause an increase in sugar levels in plants, which then stimulates soil activity and plant nutrients uptake.

Know the benefit of foliar feeding.....why you are spending your money. Foliar feeding through the leaves works more quickly than adding fertilizer to the soil because it must be taken up through a plant's root system. Foliar feeding is not a substitute for root feeding, but used in conjunction with root feeding, foliar feeding can increase the dry fertilizers effectiveness considerably because it adds root growth to the tap and feeder roots providing a firm foundation for growth. By applying a foliar fertilizer directly to the leaf, it increases the activity in the leaf and at the same time increases chlorophyll and thus photosynthesis. This increased activity causes the leaf to need more water. This increase in water uptake by the plants vascular system then in turn increases the uptake of nutrients from the soil. This is important since the plant is constantly growing...always hungry. But its growth and thereby the yield of the crop, is limited by the deficiency of any *one element*...even though *all* the necessary *elements* are present in adequate amounts.

Mic-Ro-Pac First.. By applying **Mic-ro-pac** first into your spray tank, you will note that the solution will have a Ph in the neutral range. This is because to high or to low of a Ph reduces the effectiveness of the fertilizer. In addition **Mic-ro-pac** is formulated to slightly acidify spray tank water. Most spray tank water is naturally alkaline. Therefore, the incorporation of **Mic-ro-pac's** micronutrients in the tank water before pesticides are added will prevent the hydrolysis of pesticides. Remember, breakdown of your pesticide is good for the environment...but only after the pesticide has done its job. There is a two fold purpose here. Whether it is a herbicide, an insecticide, or other pesticide, the whole point of spraying is to protect the plant. Nutrient absorption of foliar fertilizers is enhanced when the air is humid and moist with a temperature of 80 degrees or below. This is due to the fact that the plant's main nutrient canals, the stomata, are open in low temperatures. The best time to spray is in the morning. For better nutrient absorption, make sure that your foliar fertilizer spray reaches the underside of the leaves, where the stomata are located. Next month we will discuss how Hook enhances **Mic-Ro-Pac's** effectiveness in this area.

End of Part One. We will finish next issue..

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