

The Foliar Biostimulants

This group of products consists of a number of specialized foliar products with a common denominator, namely the combination of 3% of soluble fulvic acids with 3% of soluble seaweed extracts (*Ascophyllum nodosum*).

As described elsewhere, these two ingredients form a synergistic relationship, not only to provide the long list of benefits that result in greater and better quality yields, but also to enhance the action of all kinds of plant nutrients.

Such a substrate is a veritable powerhouse, capable of providing extraordinary activity and far superior absorption of any properly formulated combination of nutrients. In essence, this substrate acts as a catalyst in activating and making absolutely maximum use of the respective nutrients, thereby intensifying, and possibly multiplying, the activity of the foliar nutrients. In short, this substrate provides a much wider dimension to the group of specialty formulations discussed in this section.

Liquid Bi-O-Fol products containing NPK

OikoSol ---->	"24"	"Start-Up"	"Citrus"
Nitrogen (N)	8.00%	8.00%	4.00%
Phosphorus (P ₂ O ₅)	8.00%	14.00%	-
Potassium (K ₂ O)	8.00%	4.00%	-
Micronutrients	0.52%	0.52%	-
Manganese (Mn)	-	-	4.00%
Zinc (Zn)	-	-	6.00%
Fulvic Acid	3.00%	3.00%	3.00%
Seaweed Extract	3.00%	3.00%	3.00%

OlkoSol “24”: This product has been designed as a basic formula to provide an optimum combination of essential nutrients and stimulants at the plant’s early stages of development. The typical application rate is 2 liters per hectare.

OlkoSol “Start-Up” is a foliar product designed for application during the early growth stages, providing an immediate boost to the plant’s food supply and initiating vigorous root development, bringing the plant on its way to optimum yields. The usual application rate is 2 liters per hectare.

OlkoSol “Citrus” is a unique liquid formulation designed specifically for manganese and zinc deficiencies in citrus, palm, fruit trees and other susceptible species. Young trees: Use 1-2 liters per 100 gallons of water and wet to run-off. Repeat every 4-6 weeks throughout the growing season. Mature trees: Use 4-5 liters per hectare before bloom and again after 2/3 petals fall. Aerial application: Use with a non-ionic surfactant in at least 40 liters of water per hectare.

OlkoSol “Micronutrients”

A liquid formulation of essential minor elements in a solution of fulvic acids and seaweed extracts to prevent and correct micronutrient deficiencies. Enables plants to better tolerate stress conditions such as drought, excessive rain and temperature extremes. The active ingredients are listed below:

Magnesium as Mg	1.25%
Combined Sulfur as S	1.50%
Iron as Fe	2.75%
Manganese as Mn	0.65%
Zinc as Zn	0.50%
Boron as B	0.02%
Molybdenum as Mo	0.01%
Fulvic acid	3.00%
Seaweed extract	3.00%

The standard foliar application rate is 2 liters per 100 gallons of water. Repeat application as needed.

Liquid OikoSol products containing single nutrients

This group consists of four products containing single nutrients in solution form, namely Mg, Ca, Fe and Zn. Other formulations are under development. Each formulation contains the standard fulvic acid / seaweed extract substrate increasing the foliar absorption of the nutrients and providing many other benefits detailed elsewhere.

OikoSol “Mg+” contains 4% of Mg. Prevents and corrects magnesium deficiencies. Fast action thanks to the rapid entry and translocation of Mg within the plant. The typical application rate is 2-4 liters per hectare. Repeat as necessary.

OikoSol “Ca+” contains 7% of Ca. Prevents and corrects calcium deficiencies. Stimulates early root and stem development. Excellent addition to transplant water. Improves general plant vigor and stiffness of stalks. Improves fruit development and sizing. The typical application rate is 2-4 liters per hectare. Repeat as necessary.

OikoSol “Fe+” contains 4% of Fe. Also 2.6% of S (because the Fe source is ferrous sulfate). Prevents and corrects iron deficiencies. The typical application rate is 2-4 liters per hectare.

OikoSol “Zn+” contains 7% of Zn. Also 2.6% of S (because the Zn source is zinc sulfate). This product has been developed for the rapid treatment of acute zinc deficiencies. The normal application rate is 2-3 liters per hectare. In cases of severe deficiencies it may be required to increase the dose to 4-6 liters per hectare. Generally, a single foliar application will suffice to overcome the typical zinc deficiency syndromes, but occasionally it may be necessary to repeat the treatment after a week to ten days.