



Defender **Complex**[®]

COMPLEXED MAGNESIUM SOLUTION WITH MICRONUTRIENTS FOR DEFICIENCIES CORRECTION

Benefits of its use

DEFENDER COMPLEX is foliar fertilizer developed to prevent and correct magnesium and other microelement deficiencies such as boron (B), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn). The combination of these micronutrients has been developed to cover the nutritional needs for each phenological stage of a particular crop and to avoid the undesirable effects of nutritional deficiencies.

The micronutrients of **DEFENDER COMPLEX** have a direct effect on vital processes such as photosynthesis, synthesis of proteins and nucleic acids. Also, it helps on the activation of important enzymes in nutrients assimilation and, the accumulation of energy as well as the structural function for different molecules that are necessary for all these process.

DEFENDER COMPLEX provides the nutritional needs and requirements at a given time of maximum necessity, optimizing metabolic functions and, therefore, maximizing crop yields.



Composition

(%w/w)

Magnesium (MgO) soluble in water	3,0
Magnesium (MgO) complexed with lignosulfonic acid	1,6
Boron (B) soluble in water	0,2
Copper (Cu) soluble in water	0,2
Iron (Fe) soluble in water	1,5
Manganese (Mn) soluble in water	1,5
Molybdenum (Mo) soluble in water	0,05
Zinc (Zn) soluble in water	1,5

Effects of micronutrient deficiencies

The effects of micronutrient deficiencies in tomato plants



Molybdenum deficiency



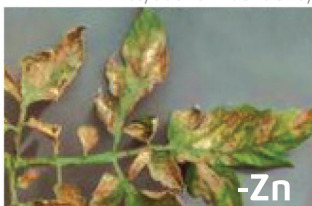
Magnesium deficiency



Iron deficiency



Manganese deficiency



Zinc deficiency



Boron deficiency



Copper deficiency



Application system

DEFENDER COMPLEX is highly recommended for crops that manifest nutritional deficiencies in one or more micronutrient of this formulation. In addition, it is also highly recommended for crops with special sensibility to these micronutrients, or in soil with low fertility or high pH values. **DEFENDER COMPLEX** is applied by foliar spray or via irrigation.

Stability and storage

DEFENDER COMPLEX is stable during at least 3 years from the manufactured date.

Keep in a fresh and ventilated place with temperatures below 50°C.

Do not store for long periods under direct sunlight.

Keep away from children.

Do not eat drink, or smoke while manipulating the product.

Dosage

Crop	l/Ha	ml/hl	Application time
Vegetables	1-2	100-200	3-4 applications during crop development
Berries			
Fruit trees	2-3	200-300	2-3 applications during fruit development and post-harvest
Citrus			
Grapevine			2 applications at pre-flowering and after fruit setting
Olive tree			2-3 applications during all the cycle
Potato	1-2	100-200	1st application after tube initiation and repeat every 15 days
Cotton	2-3		1st application 2-3 weeks before flowering and 2nd application 2 weeks after full flower

Compatibility

DEFENDER COMPLEX is compatible with most of plant protection products and nutritional correctors except with products containing phosphorous. It is recommended to perform a test in a small volume to assess compatibility. If you have any doubt, please contact your local distributor for technical advice.