

to soil

TREATMENT	DOSE ACCORDING TO CULTIVATION TYPE (l/ha/week)			OBSERVATIONS
	VEGETABLE	ORNAMENTALS	FRUIT TREES	
Bionare Suelo	1.0 - 3.0	2.0 - 4.0	1.0 - 3.0	Complementary treatment to mineral nutrition. Break down suggested doses among the number of applications carried out during the week.
Huminare	3.0 - 5.0	3.0 - 5.0	3.0 - 5.0	
Germi Calcio*	4.0 - 6.0	4.0 - 6.0	4.0 - 6.0	

* If salinity is high



complementary treatment

- adequacy to irrigation
- avoid high salinity
- carry out rooting treatment
- avoid N overdose
- monitor Ca, K and Cl supply

products line

PRODUCT	DESCRIPTION	BENEFITS
Bionare	Liquid foliar biostimulant based on L-amino acids, vitamins and microelements.	Activates the metabolism of cultivation.
Germi MAX	Liquid foliar biostimulant based on L-amino acids, organic extracts, silicon and microelements.	Activate the metabolism of crop to increase crops.
Germi SUPRA	Stress Reducer Based L-amino acids, minerals and organic extracts	Regulation of metabolic processes, increasing the formation of carbohydrates.
ViGonare	Liquid Root Vigorizer based on L-amino acids, minerals and extracts organics.	Strengthens root development by supporting the establishment of crops.
Bionare SUELO	Liquid root biostimulant complex based on L-amino acids.	Increase the root development and the leveraging of nutrients in the soil.
Surfare	Surfactant, penetrating, moisturizer, acidifier and pH indicator.	Increase the efficiency on the application of agrochemicals.
Huminare	Liquid humic acids complex enriched with microelements.	Increase the leveraging of nutrients of the soil.
Germi PHOS	Balanced liquid foliar nutrient and L-amino acids.	Increase the energy level of the plant.
Germi PLEX	Balanced liquid foliar nutrient and L-amino acids.	Reinforce the metabolism of the cultivation thanks to the contribution of balanced nutrients.
GermiK	Liquid foliar nutrient rich in potassium and L-amino acids.	Activate the metabolism of cultivation.
Germi CALCIO	Saline soil enhancer.	Favours the release of sodium in the soil, as well as the sodium/calcium exchange.



Germinare

leader in plants stress control

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antistress treatment



Germinare

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caused by lack or excess of water



stress caused by lack or excess of water

WATER IS THE GREAT REGULATOR OF PLANT METABOLISM AND GROWTH

On metabolic level is one of the main determinants of the balance between the **photosynthetic and respiratory processes**. From the point of view of growth has a strong effect over the determination of the number of cells which constitute an organ (cellular division) and the size of those cells.

WHAT OTHER EFFECTS PRODUCES DEHYDRATION ?

- Increase on the production of free radicals (mainly O₂)
- Diminish of the relative capacity of the plant to synthesize antioxidant compounds.

TO WHAT IS EXPOSED A PLANT WHEN THERE IS EXCESS OF WATER ?

Plants are exposed to a condition of lack of oxygen, given the low diffusion of the element in water and its low solubility. This lack of oxygen makes the root area and the tissues of the plant to present conditions where metallic ions predominate in reduced forms (i.e. Fe²⁺) which can hardly be incorporated to the metabolism and increase the synthesis of free radicals (mainly H₂O₂).



causes

common causes of dehydration which increase the propensity of cultivation to lack of water.

PROBLEM	CAUSE
LOW CONTENT OF HUMIDITY IN SOIL	<ul style="list-style-type: none"> ● Insufficient supply ● Excessive weariness before giving the next irrigation
HIGH SALINITY	<ul style="list-style-type: none"> ● Accumulation of salts in soil because of the lack of drain or insufficient irrigation ● High salinity in the irrigation water ● Excessive fertilizer application
INSUFFICIENT ROOT SYSTEM	<ul style="list-style-type: none"> ● Inadequate irrigation handling ● Compaction and/or salinity of soil ● Diseases or plagues of soil ● Inadequate temperature of soil
EXCESSIVE VEGETATIVE DEVELOPMENT	<ul style="list-style-type: none"> ● Inadequate irrigation handling ● Excess of nitrogen, lack of potassium, calcium and microelements
HIGH RATE OF EVOTRANPIRATION	<ul style="list-style-type: none"> ● High solar radiation ● Low relative humidity ● High wind speed

Germinare treatment

foliar treatment against dehydration

TREATMENT	DOSE ACCORDING TO CULTIVATION TYPE (l / ha / week)				OBSERVATIONS
	VEGETABLE	ORNAMENTAL	FRUIT TREES	EXTENSIVE	
Bionare Bioplex-Calcio Surfare	0.25 - 0.75 1.0 - 4.0 1 ml / liter of water	1.0 - 2.0 1.0 - 4.0 0.25 - 0.5 ml / liter of water	0.5 - 0.75 2.0 - 5.0 0.5 - 1.0 ml / liter of water	0.25 - 0.5 1.0 - 3.0 1 ml / liter of water	Carry out applications every 7 - 10 days, alternating the proposed treatments.
Bionare Germi-K Surfare	0.25 - 0.75 1.0 - 4.0 1 ml / liter of water	1.0 - 2.0 1.0 - 4.0 1 ml / liter of water	0.5 - 0.75 1.0 - 4.0 1.0 ml / liter of water	0.25 - 0.5 1.0 - 4.0 1 ml / liter of water	

foliar treatment against humidity excess

TREATMENT	DOSE ACCORDING TO CULTIVATION TYPE (l / ha / week)				OBSERVATIONS
	VEGETABLE	ORNAMENTAL	FRUIT TREES	EXTENSIVE	
Bionare Bioplex Fe Surfare	0.25 - 0.75 1.0 - 4.0 1 ml / liter of water	1.0 - 2.0 1.0 - 4.0 0.25 - 0.5 ml / liter of water	0.5 - 0.75 2.0 - 5.0 0.5 - 1.0 ml / liter of water	0.25 - 0.5 1.0 - 3.0 1 ml / liter of water	Carry out applications every 7 - 10 days, alternating the proposed treatments.
Bionare Bioplex Fe+Zn+ Mn Surfare	0.25 - 0.75 0.25 - 1.0 (from each one) 1 ml / liter of water	1.0 - 2.0 0.25 - 1.0 (from each one) 0.25 - 0.5 ml / liter of water	0.5 - 0.75 0.5 - 1.5 (from each one) 0.5 - 1.0 ml / liter of water	0.25 - 0.5 0.25 - 1.0 (from each one) 1 ml / liter of water	