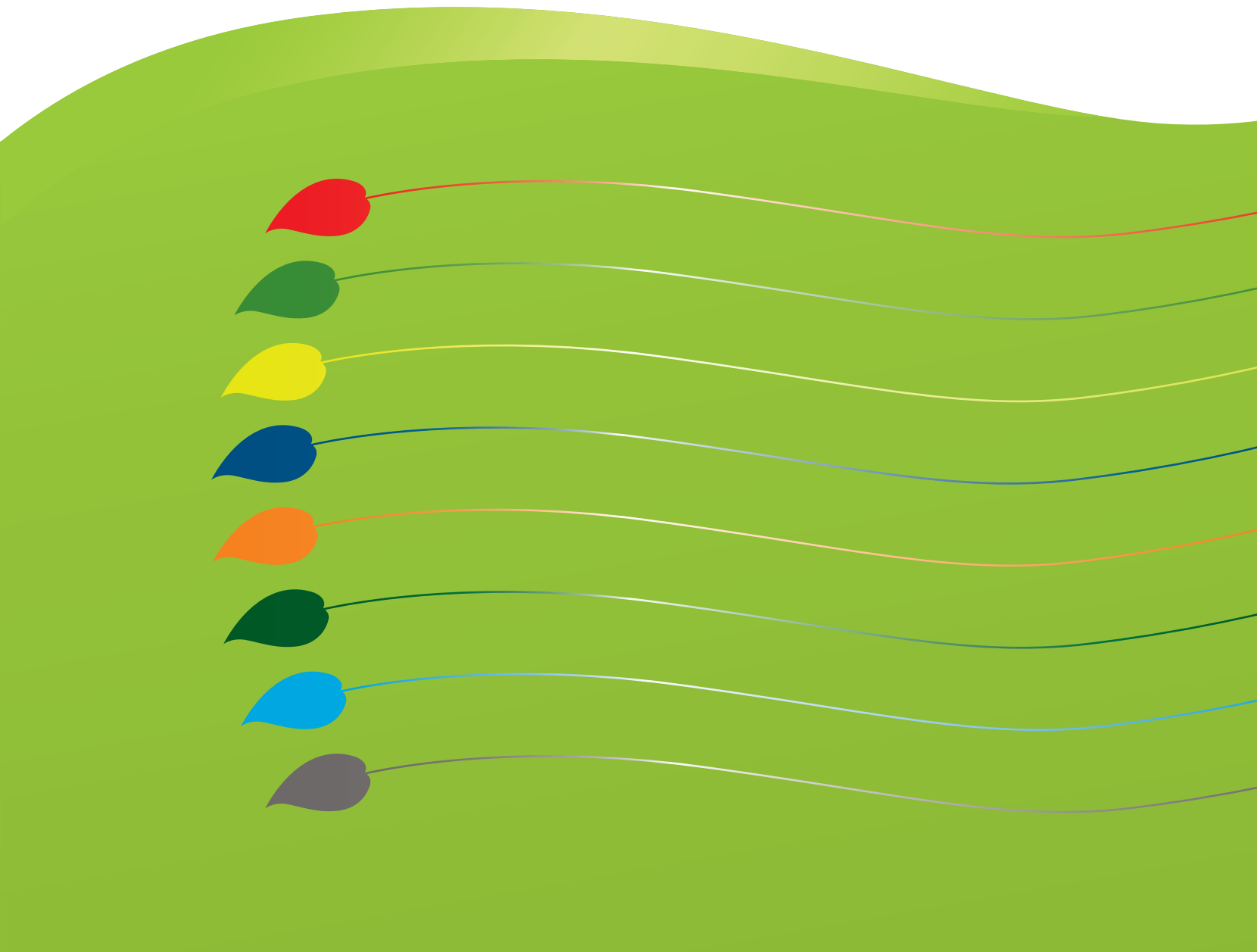




COMERCO

green biotechnology

Product Catalogue



COMERCO GREEN BIOTECH

Comerco Green Biotech (SGB) system was created using the exclusive **Comerco** technology and was engineered to promote the healthy and balanced development of the plant and to increase crops production, both in quality and in quantity, with a mix of natural ingredients skillfully blended to enhance the effects of the microbial group.

Effects on plant



SMART MICROBES

PGPR

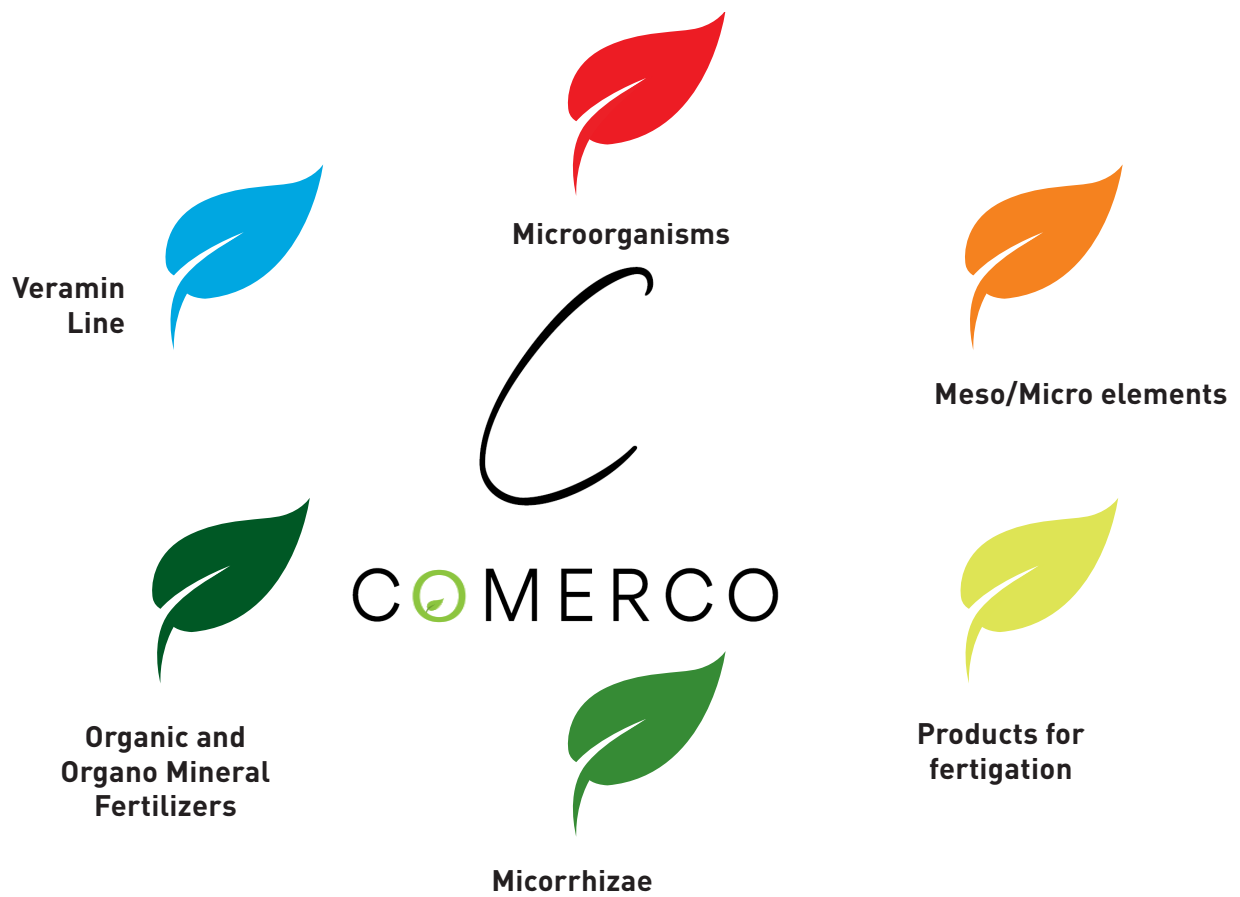
Plant Growth Promoting Rhizobacteria are the multitasking microbes of the microbial community. They colonize the roots, improving the plants growth. They release phytohormones, such as auxins, in the rhizosphere. Phytohormones stimulate multiplication, distension and cell growth radicals. They increase the availability of nutrients in the soil, in particular phosphorus and trace elements (Iron, Manganese, Zinc etc...).

MICORRHIZAE

They provide a significant aid to the plant uptake of water and nutrients. They are an example of mutual symbiosis between a fungus and the plants roots: the first receives the necessary carbohydrates from the plant and at the same time the plant itself absorbs water and mineral salts (phosphorus, iron, etc.) made available by the fungus. The mycorrhizal plants are healthy and vigorous, they can resist better to biotic and abiotic stresses.

PROPERTY STRAINS

Carefully selected from nature and isolated by Comerco, they help the farmers promoting a healthy and balanced crops development.



PRODUCTS

Comerco products are based on top quality standards guaranteed by renewed productive processes and a careful selection of rawmaterials.

A complete range of products for every crop requirement: from high technology fertilizers (created by **microbiological research to enhance plant performances and to improve traditional fertilizers**) to basic products for fertilization (like granular NPK fertilizers enriched with microelements), to fertigants, special foliar products and micro-elements.



OUR ALLIES

Mycorrhizae are the symbiotic association between soil fungi and agricultural and forestry plants roots. *Mycorrhiza* is a Greek word that etymologically means fungus and root. This is a mutual association where each element takes advantage of mycorrhization: the fungus colonizes plant roots, providing water and nutrients absorbed from the soil through its external system of hyphae, while the plant provides organic matter to the fungus (like sugars, proteins, vitamins). Where mycorrhizae develop, plants are healthier, more vigorous and less prone to environmental stresses. There are many types of natural mycorrhizae because, during their evolution, plants adapted themselves to all sorts of environments. By the fungus ability to penetrate host plant root cells and by this unity appearance, we can identify three forms of mycorrhizae: ectomycorrhiza, endomycorrhiza, ectoendomycorrhiza.

Arbuscular endomycorrhizae AM or VAM, (Vesícula arbuscular mycorrhizal), obviously represents the most common type of mycorrhizae, affecting the main herbaceous and tree crops all over the world. Regarding cultivated plants, this mycorrhizae can be found in cereals (wheat, maize, barley) and vegetables such as tomato and potato, in industrial crops (tobacco and sunflower), in tree crops (vine, peach tree, apple tree, pear tree, olive tree, etc...) and many other agricultural and forestry crops. They are called endomycorrhizae because the fungus penetrates host cells. The spores on the soil germinate because of the presence of host roots as a result of root exudative. They grow until they reach the root and colonize it penetrating through both intercellular spaces and cells.

Inside the cells hyphae branch off to create branched structures called arbuscules. They are responsible for nutrient exchange between the two symbionts: the plant transfers the exceeding carbohydrates produced by photosynthesis while the fungus transfers the mineral salts absorbed from the surrounding soil. Another structure created by the fungal hyphae is the vesicule, which is an intracellular or intercellular round swelling, a system of fat granules accumulation and stock. The spores formed by these fungi are asexual and directly created by vegetative hyphae. The fungi mycelium, consisting of vegetative extra root hyphae from 8 to 20 micrometers, can be very extended and has the key role of exploring the soil around the roots to increase the absorbing efficiency of the root itself. The most important kind of endomycorrhiza is *Glomus*. The effect of mycorrhization is basically a wide multiplication of root surface and volume (up to 700-800 %); thanks to the external root growth the fungal mycelium explores inaccessible parts of the soil. Other benefits of the mycorrhization are: an increased plant resistance to water stress and salinity, an increased resistance and tolerance to soil pathogens, a greater absorption of microelements, an improved and more consistent production, a better plant growth, more efficient fertilizers, pesticides and irrigation, an improved plant adaptation to the environment, less tired soils.

PGPR (Plant Growth Promoting Rhizobacteria) promote plant growth. They are microorganisms that bio-stimulate root growth and increase their defenses. They act in different ways, always producing a great amount of useful enzymes stimulating the plant endogenous defenses. One of the most common methods that PGPR adopt to improve plant nutrients absorption is the alteration of vegetal hormones levels. This process changes root architecture: it increases root system mass through its branching and elongation and root hair amount. This leads to a root volume increase and to a better nutrients absorption. Moreover, PGPR stimulate plant growth, assuring prime conditions (like pH neutralization) in the rhizosphere (a part of the soil explored by the roots) so that the plant can quickly assimilate all the necessary nutrients. In addition, some of them can make insoluble phosphorus and iron (siderophores) available. Last but not least is the growth inhibition and competition for space and nutrients, which operate to the detriment of many pathogenic and fungal species. In brief, PGPR have three very interesting properties and can be used as: bio-fertilizers, bio-activators, bio-protectors.

Trichoderma is a fungus that plays a strong action against several phyto-pathogenic fungi in different ways:

- a rapid rhizosphere colonization through the competition for space and nutrients engaged with pathogenic fungi to delimit their development;
- a production of chitinolytic enzymes that help *Trichoderma sp.* penetrating the host, so the pathogen is used as nourishment;
- a production of fungistatic substances that prevent pathogens development limiting the occurrence of infections;
- a plant growth stimulation with an increased roots, leaves and stems production and an improved efficiency in both macro and micro-nutrients absorption.

Clonostachys is a fungus that acts as a saprophyte in the soil and is characterized by a particular spiral growth. This fungus, thanks to the production of toxic metabolites, plays a good antagonistic activity against several soil-borne pathogens. It is also able to occupy and remove forms of pathogens resistance, such as sclerotia.

Streptomyces belongs to *Actinomycetes* group, microorganisms with intermediate characteristics between fungi and bacteria. The members of this genus are commonly found in substrates and natural soils; they produce many useful plant substances, such as siderophores (organic substances that chelate iron), microelements, vitamins, amino acids and organic acids. The production of such substances directly promotes plant development. Some studies have also shown that some species of *Streptomyces sp.* are characterized by the ability of producing antibiotic substances (streptomycin) which control many root system pathogenic fungi (*Pyrenocheta lycopersici*, *Fusarium oxysporum*, *Pythium ultimum*, *Verticillium dahliae*, *Phytophthora capsici*, etc.). The antagonistic activity towards phytopathogens is not only managed by a direct process, but it is also performed by space occupation and competition for nutrients.



The species of **Pseudomonas sp.** genus are soil bacteria and belong to the group of PGPR (Plant Growth Promoting Rhizobacteria). The activity of growth promoting is carried out through several processes: one of the most significant is the release of hormone-like substances that stimulate proliferation, multiplication and root cells growth in the rhizosphere. Like *Streptomyces sp.*, *Pseudomonas sp.* is also able to chelate iron and other microelements by producing organic acids known as siderophores. Several studies have shown that microorganism synergistic activity leads to an increased plant root development. Plants with well-structured roots can more efficiently exploit water and nutrients.

The **Bacillus sp.** genus belongs to PGPR group and includes species of bacteria isolated from the rhizosphere with several beneficial activities. Many studies prove that these bacteria help the plants overcoming stresses caused by different phytopathogenic fungi that attack both the aerial system (*Alternaria*, *Botrytis cinerea*, *Powdery mildew*, *Bremia* and group *Peronosporaceae*, *Moniliaceae*) and the root system (*Phytium*, *Rhizoctonia*, *Fusarium* and *Sclerotinia*). This activity is carried out through several processes such as particular degrading enzymes production (chitinolytic, glucanolytic and proteolytic enzymes) secreted when bacteria approach the fungus; they stimulate plant self-defenses and compete with pathogens to achieve space and nutrients. In addition, *Bacillus sp.* genus species promote plant growth by producing phytohormones and phytohormonal action substances. Other activities related to plant growth promotion are: production of organic matters called "siderophores" that facilitate plant absorption of iron and other microelements, production of organic acids that can dissolve unavailable phosphorus salts.

Pochonia sp. is a hyphomycete, a nematode eggs parasite. Its antagonist activity is linked to the production of proteolytic and chitinolytic enzymes that degrade nematodes cell structures, especially eggs and early stage female cells.

Arthrobotrys sp. is a nematode parasite fungus. The nematode bio-control activity is related to ring structures production that swell and trap nematodes passing through. Then the nematodes are enzymatically degraded and used as nourishment by the fungus.

A mixture of *Pochonia sp.* and *Arthrobotrys sp.* could be a significant biological mean of controlling pathogenic nematodes of *Meloidogyne* and *Heterodera* genus. Some tests have proved that the use of these fungi on soils (previously sterilized by chemicals, solarization, steam) maintained nematodes level below the damage threshold for more years compared to soils without fungi, thanks to the "biological vacuum" filling action.

Beauveria sp. and **Metarhizium sp.** are pathogen fungi that can penetrate into host insect through its exoskeleton by producing chitinolytic enzymes. Once the fungus is inside the host, it develops and eats it to death. Infected but still alive insects have limited movements and are unable to eat and they represent a source of infection to other insects.



MISSION

We develop and provide innovative and ecologically sustainable biotech solutions, which are effective in plant nutrition and environmental recovery. So far, we have been able to achieve very successful results, such as root system development, enhancement of plant growth and natural resistance to stresses, with the purpose of guaranteeing a future for both present and next generations.

We offer alternatives to traditional fertilizer products, creating significant value, making a difference.

Our work is led by excellence, so that our products and services are of a premium quality. They have the purpose to exceed our commitments to the customers we serve. We are described by a well-defined set of values which include responsibility, integrity, appearance, endurance, ingenuity, all ruling our actions, with the aim of achieving our overall mission.

RESEARCH & DEVELOPMENT

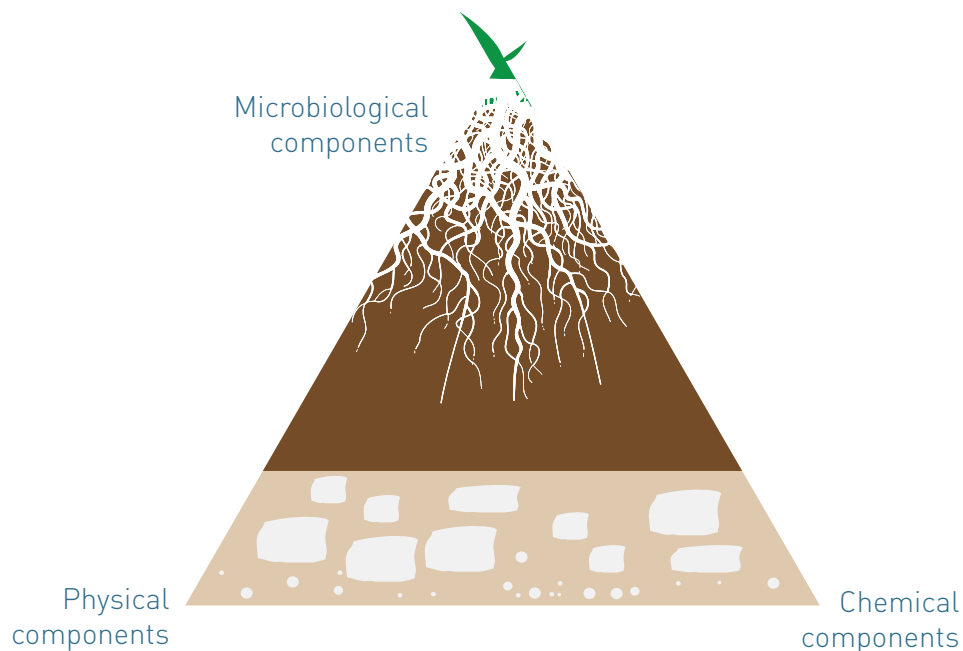
Research & Development has a key role in the Company strategy. Comercomicro has an advanced laboratory and a team of researchers who works full time on projects aimed at developing new fertilizer prototypes, focusing in particular on organic ones. All the activities are developed by the Italian National Research Council (CNR) that has an operative team in our laboratory. Innovation and patents are related to storage methods and fertilizer applications, processes of preparation with inoculum of microorganisms and production of mycorrhizae.

Considering all these aspects we have the ability and the desire to provide sustainable solutions to some of the grand overall challenges of our time, such as resource deficit, food security and global warming.



SPORE GREEN BIOTECH

Spore Green Biotech (SGB) has been developed by our research team to provide a healthy, strong and balanced plant development thanks to the selection of useful and natural microorganisms. SGB increases roots surface and bio-stimulates plant growth by strengthening its resistance to biotic and abiotic stresses; it promotes yield increase and crop quality; it improves common fertilizers' effectiveness up to 30%. Carefully selected from nature and isolated by Comarco, they help farmers promote a healthy and balanced crops development.



Soil Fertility

Soil fertility derives from the combined effect of physical, chemical and microbiological components. The microbiological soil component is still poorly understood because of the countless varieties of organisms that are part of it and because of the complex environment and crop interactions. Understanding the microbiological component means understanding the soil health, its stress level and, eventually, its degradation level. So far, mineral fertilizers have ensured good production results and they have also compensated the soil organic balance deficit; however it is already clear that it is no longer enough.

Thanks to the progression of Biotechnology and the new achievements of our laboratories, today it is possible to improve this fertility component quickly, so that we can obtain better performances from the soil.

OUR BIO ACTIVATOR

Microtech Complex Activator

Microtech PGPR Activator is a high concentrated complex containing multitasking microbes from the soil microbial community. Microtech complex releases phytohormones, such as auxins, into the rhizosphere. Phytohormones stimulate cellular multiplication and distension, as well as roots growth. They increase the availability of nutrients in the soil, in particular phosphorus and trace elements (Iron, Manganese, Zinc etc...).

Microspore developed a different type of biological activator complex, named Microtech, with the purpose of developing and improving plant nutrition and protection.

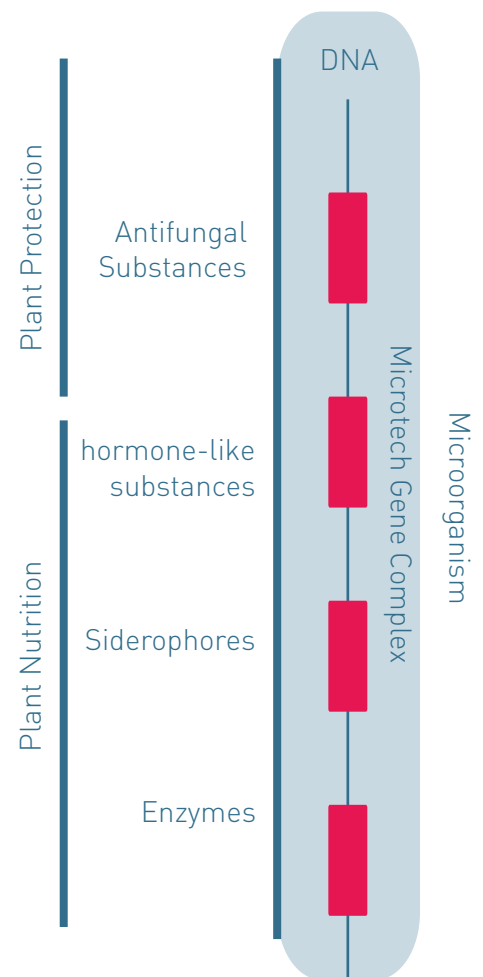
They are microorganisms that bio-stimulate roots growth and increase their defenses. They act in different ways, always producing a great amount of useful enzymes which stimulate the plant's endogenous defenses. One of the most common methods that PGPR adopts is to improve plant nutrients' absorption through the alteration of vegetal hormone levels. This process changes roots structure by lengthening branches and raising the amount of root hair. This leads to a root volume increase and to a better nutrients' absorption. Moreover, PGPRs stimulate plant growth, assuring prime conditions (like pH neutralization) in the rhizosphere (a part of the soil closest to the roots) so that the plant can quickly assimilate all the necessary nutrients. In addition, some of them can make insoluble phosphorus and iron (siderophores) available. Last, but not least, its actions of growth inhibition and competition for space and nutrients ensure the detriment of many pathogenic and fungal species. In brief, PGPR have three very interesting properties and can be used as: biofertilizers, bio-activators, bio-protectors.

Microstym

Microstym is a complex of special symbiotic soil fungi combined with the Microtech Complex Activator that creates a faster, symbiotic association with the plants' roots.

This is a mutual association where each element takes advantage of Microstym complex: the fungus colonizes plant roots, providing water and nutrients absorbed from the soil through its external system of hyphae, while the plant provides organic matter to the fungus (like sugars, proteins, vitamins). Where Microstym develops, plants are healthier, more vigorous and less prone to environmental stresses.

Microtech Complex Activator Like a Biological Factory



Microtech TX



Microtech TX activator is a complex pool of microorganisms activated with a special organic matter that plays a strong action against several phyto-pathogenic fungi in different ways:

- a rapid rhizosphere colonization through the competition for space and nutrients engaged with pathogenic fungi to reduce their development;
- a production of chitinolytic enzymes that penetrate the host, so the pathogen is used as nourishment;
- a production of fungistatic substances that prevent pathogen development limiting the occurrence of infections;
- a plant growth stimulation with an increased roots, leaves and stems production and an improved efficiency in both macro and micro-nutrients absorption.

This special soil microbes complex, thanks to the production of toxic metabolites, plays a good antagonistic activity against several soil-borne pathogens. It is also able to occupy and remove forms of pathogen resistance, such as sclerotinia.

Microtech SX

Microtech SX Activator complex is made of a group of microorganisms with intermediate characteristics between fungi and bacteria that have a joint activity and lead to an increased plant root development. The growth-promoting activity is carried out through several processes: one of the most significant is the release of hormone-like substances that stimulate cellular proliferation and multiplication, as well as roots growth in the rhizosphere; it is also able to chelate iron and other micro-elements by producing organic acids known as siderophores. This activator stimulates the production of many useful plant substances, such as siderophores (organic substances that chelate iron), micro-elements, vitamins, amino acids and organic acids. It promotes plant development and it is characterized by the ability to produce antibiotic substances (streptomycin) which control many root system pathogenic fungi (*Pyrenocheta lycopersici*, *Fusarium oxysporum*, *Pythium ultimum*, *Verticillium dahliae*, *Phytophthora capsici*, etc.). The antagonistic activity against phytopathogens is not only managed by a direct process, but it is also performed by space occupation and competition for nutrients.

OUR BIO ACTIVATOR

Microtech Sbx

Microtech SbX genus belongs to the group of PGPR and includes species of bacteria isolated from the rhizosphere with several beneficial activities. Many studies have proved that these bacteria help plants overcome stresses caused by different phytopathogenic fungi that attack both the aerial system (*Alternaria*, *Botrytis cinerea*, Powdery mildew, *Bremia* and group *Peronosporaceae*, *Moniliaceae*) and the root system (*Phytophthora*, *Rhizoctonia*, *Fusarium* and *Sclerotinia*). This activity is carried out through several processes such as degrading enzymes' production (chitinolytic, glucanolytic and proteolytic enzymes) secreted when bacteria approach the fungus; they stimulate plant self-defenses and compete with pathogens to achieve space and nutrients. In addition, Microtech SbX genus's species promote plant growth by producing phytohormones and phytohormonal action substances.

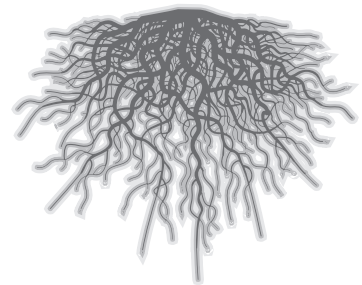
Microtech PX

Microtech PX is a high concentrated activator containing multitasking microbes which provide an antagonist activity against nematodes. The nematode bio-control activity is related to the production of ring structures that swell and trap nematodes passing through. Then the nematodes are enzymatically degraded and used as nourishment by the fungus. A Microtech PX could be a significant biological means of controlling pathogenic nematodes such as *Meloidogyne* and *Heterodera* genus. Some tests have proved that the use of these fungi on soils (previously sterilized by chemical agents, solarization, steam) maintained the nematodes level below the damage threshold for more years compared to soils without fungi, thanks to the "biological vacuum" filling action.

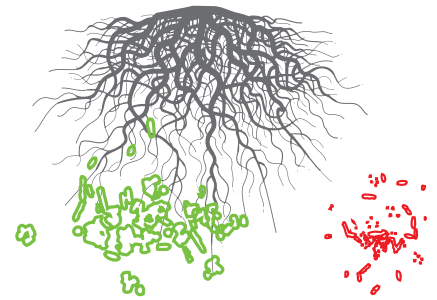
Microtech MX

Microtech MX is a mix of pathogen fungi that can penetrate into the host insect through its exoskeleton by producing chitinolytic enzymes. Once the fungus is inside, it develops and eats the host. Infected but still alive insects have limited movements, they are unable to eat and represent a source of infection for other insects.

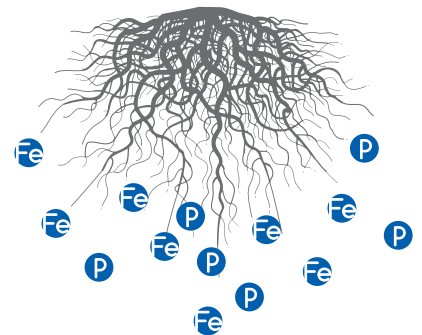
Root System Mass Increase



Pathogen suppression



Nutrient Uptake increase

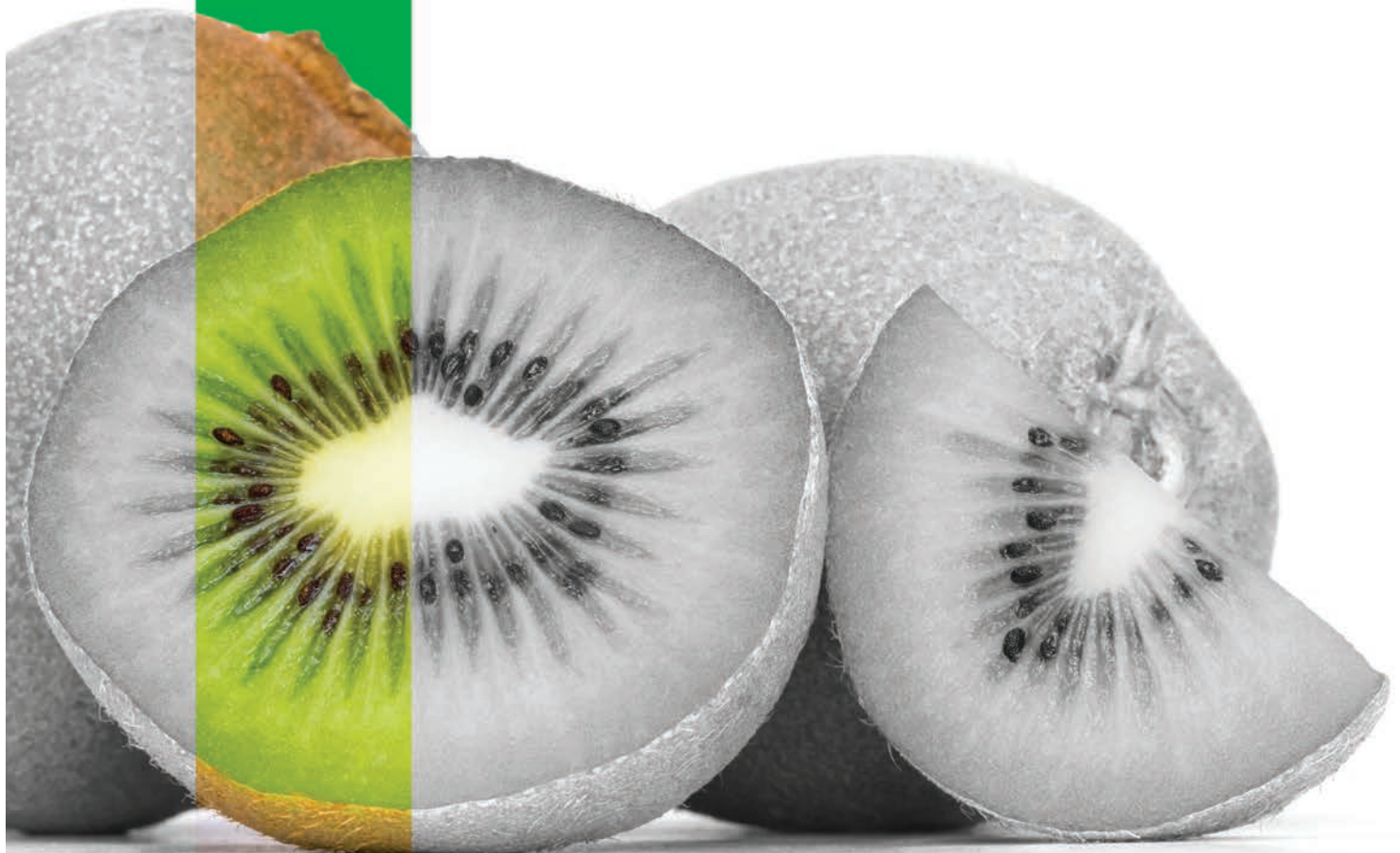


Greenspore

GREENSPORE product line enhances mycorrhizae benefits and sets a new quality standard. MICROSPORE R&D has developed specific mycorrhizae to guarantee uniform quality and concrete results in difficult situations faced during crops' growth cycle. Mycorrhizae benefits are well-known but, unlike market standards, MICROSPORE can ensure persistent performances in specific fertilizations and support to the plant in case of stress. Since they are products "from nature to nature", they provide the following benefits:

- Low environmental impact and low production costs
- Healthier productions
- Productions obtained by lower quantities of chemical inputs (fertilizers and pesticides)
- Productions respecting the environment, operators and end-users.

This line has been created by Spore Green Biotech (SGB) System, specifically studied to promote a healthy and balanced plants development and to increase crop production, both in quality and in quantity, with a mix of natural ingredients skillfully blended to enhance the effects of the microbial group.



Sublic

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

FEATURES

SUBLIC has been created to facilitate foliar microflora rebalancing in anticipation of thermic or water stresses caused by noxious microorganisms. Thanks to the natural presence of PGPR microorganisms, the formulation enhances phyllosphere microflora rebalancing. SUBLIC is absorbed through both foliar and root system and this allows its use in different crop conditions. The benefit brought from its use is essential to prevent stresses caused by several factors like *Botrytis* sp., *Erwinia amylovora*, *Rhizoctonia* sp., *Colletotrichum* sp., *Sclerotinia* sp., *Phomopsis* sp. attacks.

APPLICATION

CROP	DOSAGE	USE AND SUGGESTION
Greenhouse and open field vegetables	200 ml/hl	Root immersion: before transplant wet the alveolar trays/cubes for a few minutes (do not wet the leaves with the product), then proceed with the transplant.
Greenhouse vegetables	200 ml/1000 s.m.	2-3 fertigation applications during the entire cycle.
Fruiting vegetables (foliar application)	200 ml/hl	3-4 foliar applications from pre-flowering to harvest.
Fruit trees in general and ornamentals	2 l/ha	2-3 applications during the production season. After Nutryaction activation (see notes) perform normal fertigation
Pome and stone fruits in general (Peach trees, Apricot tree, etc.)	2-2,5 l/ha	3-4 foliar applications after the fruit enlargement with approximately 15 days between each application.
Walnut trees	2-2,5 l/ha	Foliar application at husk formation.
Grape	1,2-1,5 l/ha	2-3 foliar applications starting from post-flowering until starting maturation (15 before the grape harvest)
Winter crops (wheat, barley, etc.)	1,5-2 l/ha	Application during the flag leaf phase.
Turfs	3 l/ha	1-2 applications using the treatment bar at the end of the growing season (October) when the temperature drops down.

NOTE: The formulation benefits from the contemporary use of Nutryaction.

Greenspore

PACKAGING: 250 ml and 1 l packages



Clonotri

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

CLONOTRI GREENSPORE LINE is an innovative liquid formulation containing Microstim and Microtech TX, containing natural fungi that effectively contribute to plants growth and health, preventing stress caused by difficult soil conditions or by several pathogens (like Armillaria, Fusarium spp., Phytophthora, Pythium spp., Pyrenochaeta, Rhizoctonia s., Sclerotinia spp., Rosellinia, Verticillium).

FEATURES

CLONOTRI GREENSPORE LINE facilitates dead plant residues' (cellulose) active degradation and leads to a competition for the substrate thanks to its microorganisms. Indeed, rapidly colonizing the rhizosphere, it limits the available space to the development of potential damaging microorganisms.

APPLICATION

CROP	DOSAGE	USE AND SUGGESTION
Greenhouse and open field vegetables (pre-transplant treatment).	100 ml/hl (+ Nutryaction 200 ml/hl) (*)	Root immersion: before transplant the alveolar trays/cubes for a few minutes (do not wet the leaves with the product), then proceed with the transplant. Localize the solution immediately after transplant.
Open field vegetables (fennel, celery, cabbage, leafy vegetables in general)	200 ml/hl (+ Nutryaction 400 ml/hl) (*)	Vaporize the alveolar trays using an atomizer before the transplant. After this step (still before the transplant) irrigate the alveolar trays letting the solution come down to the cube root.
Greenhouse and open field vegetables (with micro-irrigation system)	200 ml/1000 sm (+Nutryaction 500ml/1000 s.m.) (*)	3-5 treatments by fertigation depending on the cycle. Perform at least the first two applications 8-10 days after the transplant every 15 days. Then perform the other applications every 7-15 days until the final phases.
Fruit trees	2 l/ha (+Nutryaction 5 l/ha) (*)	2-3 applications during the production season.
Open field vegetables, production and nursery strawberries	2 l/ha (+Nutryaction 5 l/ha) (*)	2-3 applications from the first growth phases during the entire cycle. Distribute the solution using the treatment bar (volume of water: 10-15 hl/ha) and, immediately later, sprinkler irrigation of the foliage (8 mm) to distribute the solution on the ground. If a micro-irrigation system is present, use it to distribute the solution (sprinkler, drip irrigation).
Grape	500 ml/ha (+Nutryaction 2 l/ha) (*)	For vineyard affected by Esca Disease. Applications by atomizer during the "crying step" using at least 400 l of water per ha. Repeat the application.
Soya Bean, Maize, etc. (Tanning seed)	250 ml/100 kg seed (+Nutryaction 500 ml/ha) (*)	Perform a homogeneous mixture of the seed which has to be tanned before sowing.
Flowers	200 ml/1000 sm (+Nutryaction 200 ml/1000 s.m.) (*)	3-5 fertigation application starting after the transplant.
Open field nursery	200 ml/hl (+ Nutriaction 100 ml/hl) (*)	Root system immersion
	3 l/ha (+Nutryaction 5 l/ha) (*)	3-5 fertigation application after the first steps preceding the entire growing season.
Turf seeding	4 l/ha (+Nutryaction 20 l/ha) (*)	After the sowing perform one fertigation application with adequate volume (at least 5 mm)

NOTE: (*) The formulation must be activated with Nutryaction before using. Mix the formulation with some water, mash it up and wait at least 3 hours, 8-10 hours is better.



PACKAGING: 200 ml and 1 l packages

Strepse

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

STREPSE GREENSPORE LINE is an innovative liquid formulation containing Microstim and Microtech SX, natural fungi that effectively contribute to plants growth and health.

FEATURES

We can obtain a wide range of benefits by using STREPSE GREENSPORE LINE: a better iron assimilation by the plants (thanks to the production led by specific organic microorganisms called "siderophores") and an important help for plants growth through the release of beneficial natural substances such as "auxines".

STREPSE's special formulation also facilitates inorganic phosphates (such as Monophosphate and Tricalcium Phosphate) solubilization and optimizes plants defenses towards stress caused by pathogens (especially fungal ones).

APPLICATION

CROP	DOSAGE	USE AND SUGGESTION
Greenhouse and open field vegetables (pre-transplant treatments).	150 ml/hl (+ Nutriaction /150 ml/hl) (*)	Root immersion: before transplantation, wet the alveolar trays/cubes for a few minutes (do not wet the leaves with the product), then proceed with the transplant. Localize the solution immediately after transplant.
Greenhouse and open field vegetables	200 ml/1000 s.m. (+Nutriaction 500ml/1000 s.m.) (*)	3 fertigation applications with approximately 8-10 days between each depending on the cycle.
Fruit trees (Grape, Pear tree, Apple tree, Stone fruit in general, etc.)	2 l/ha (+Nutriaction 5 l/ha) (*)	2-3 fertigation application starting at pre-flowering.
Maize	2 l/ha (+Nutriaction 5 l/ha) (*)	First crop steps (post-emergency weeding treatments phase)
Flowers	200 ml/1000 s.m. (+Nutriaction 200 ml/1000 s.m.) (*)	3-5 fertigation application starting after the transplant.
Open field nursery	200 ml/hl (+ Nutriaction 100 ml/hl) (*)	Root system immersion
	3 l/ha (+Nutriaction 5 l/ha) (*)	3-5 fertigation application after the first steps preceding the entire vegetative season.
Turf seeding	3 l/ha (+Nutriaction 5 l/ha) (*)	3-4 applications starting from the first growth steps.

NOTE: (*) The formulation must be activated with Nutriaction before using. Mix the formulation with some water, mash it up and wait at least 3 hours, 8-10 hours is better.

Greenspore

PACKAGING: 200 ml and 1 l packages



Pochar

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

FEATURES

POCHAR GREENSPORE LINE is an innovative liquid formulation containing Microstim and Microtech PX, natural fungi that effectively contribute to control the stress caused by root system pathogen attacks (like nematodes).

APPLICATION

CROP	DOSAGE	USE AND SUGGESTION
Greenhouse and open field vegetables	200-300 ml/hl (+ Nutryaction 100 ml/hl) (*)	Root immersion: before transplant wet the alveolar trays/cubes for a few minutes (do not wet the leaves with the product), then proceed with the transplant.
Greenhouse vegetables	200 ml/1000 s.m. (+Nutryaction 500g/1000 s.m.) (*)	2-3 applications during the entire cycle.
Fruit trees	2 l/ha (+Nutryaction 5 l/ha) (*)	After Nutryaction activation (see notes) perform normal fertigation, especially during temperate and hot periods. 2-3 applications during the production season.
Open field crops (potatoes, carrots, fennel, melons, etc)	2 l/ha (+Nutryaction 5 l/ha) (*)	After the sowing or transplant; 2-3 applications from first growth steps during the entire cycle. Distribute the solution using the treatment bar (volume of water: 10-15 hl/ha) and, immediately later, sprinkler irrigation of the foliage (8 mm) to distribute the solution on the ground. If a micro-irrigation system is present, use it to distribute the solution (sprinkler, drip irrigation).
Production and nursery strawberries	2 l/ha (+Nutryaction 5 l/ha) (*)	2-3 applications from first growth steps during the entire cycle. Distribute the solution using the treatment bar (volume of water: 10-15 hl/ha) and, immediately later, sprinkler irrigation of the foliage (8 mm) to distribute the solution on the ground. If a micro-irrigation system is present, use it to distribute the solution (sprinkler, drip irrigation).
Open field nursery	300 ml/hl (+ Nutriaction 100 ml/hl) (*)	Root system immersion
	3 l/ha (+Nutryaction 5 l/ha) (*)	After Nutryaction activation (see notes) perform normal fertigation, especially during temperate and hot periods. 2-3 applications with approximately 20-30 days between each application.
Turfs	2 l/ha (+Nutryaction 5 l/ha) (*)	2-3 applications by fertigation or using the bar, followed by irrigation.

NOTE: (*) The formulation must be activated with Nutryaction before using. Mix the formulation with some water, mash it up and wait at least 3 hours, 8-10 hours is better.



PACKAGING: 200 ml and 1 l packages

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

METAB GREENPOWER LINE is an innovative liquid formulation containing MicroStim and Microtech MX.

FEATURES

Microorganisms in METAB GREENPOWER LINE effectively help the plant overcome foliar and root system stresses also in case of phytophagous insects attacks.

APPLICATION

CROP	DOSAGE	USE AND SUGGESTION
Greenhouse and open field vegetables	200-300 ml/hl (+ Nutryaction 100 ml/hl) (*)	Root immersion: before transplant immerse or wet the alveolar trays/cubes for a few minutes (do not wet the leaves with the product), then proceed with the transplant.
Greenhouse vegetables	200 ml/1000 s.m. (+Nutryaction 500g/1000 s.m.) (*)	2-3 applications during the entire cycle.
Fruit trees	2 l/ha (+Nutryaction 2 l/ha) (*)	3-4 foliar applications during the entire cycle, from flowering until the harvest.
Leafy vegetables (cabbage, salad, radicchio, celery, arugula, etc.)	2 l/ha (+Nutryaction 5 l/ha) (*)	3-4 foliar applications during the entire cycle, especially in the final steps.
Onion	2 l/ha (+Nutryaction 5 l/ha) (*)	2-3 foliar applications from the first growth steps until the end of the cycle.
Maize (organic agriculture)	2 l/ha (+Nutryaction 5 l/ha) (*)	1 application in case corn borer (2 nd generation) .
Turf	2 l/ha (+Nutryaction 5 l/ha) (*)	Application by fertigation or using the bar, followed by irrigation. 1 st application at sowing, 2 nd application during the growth phase repeating it during the vegetation.

NOTE: (*) The formulation must be activated with Nutryaction before using. Mix the formulation with some water, mash it up and wait at least 3 hours, 8-10 hours is better.

PACKAGING: 200 ml and 1 l packages



Micoseeds MB

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

FEATURES

MICOSEEDS MB

The product is created for young plants and seeds. In addition to MicroStim, which provides a greater root system expansion and a rapid vegetative growth, MICOSEEDS MB takes advantage of the microbiological features of Microtech MX and Microtech TX: the microorganisms inside help young plants efficiently overcome stresses related to the presence of terricolous insects that damage the crops.

For a better efficiency, the product is best applied directly on roots or seeds and packages are best stored in dry places and away from direct sunlight.

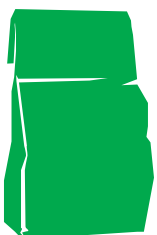
APPLICATION

CROP	DOSAGE	USE AND SUGGESTION
Tray crops (seeding, ornamentals, etc.)	5-10 kg/ cubic meter (actual volume developed)	Mix evenly with the substrate before using. Best pH: 6-8.
Maize, Sorghum, Sunflower, Soya bean, etc.	10-20 kg/ha	Distribute the product at sowing, using the micro-granulator or directly in the hopper.
Open field vegetables (tomatoes, pepper, eggplant, fennel, salad, melon, spinach, etc.)	15-30 kg/ha	Distribute the product at sowing or at transplant, using the micro-granulator or directly in the hopper.
Greenhouse vegetables	2 g/plant (2-5 kg/1000 s.m.)	Put the product next to the roots.
Turfs	5-10 kg/1000 s.m.	In pre-sowing. Distribute evenly the product before the refinement of the seedbed.

COMPOSITION

BIOLOGICAL	
MicroStim	100 spores/gr
Microtech MX	10 ⁷ UFC/gr
Microtech TX	10 ³ UFC/gr
PGPR	10 ³ UFC/gr
Pathogens	absent

CHEMICAL-PHYSICAL	
Formulation	Micro granules 0,7-2 mm
Color	Light brown
Organic Matter	Non composted amendment
Specific weight	~ 0,9 - 1 Kg/dm ³



PACKAGING: 1 kg and 10 kg bag packages

Micoseeds Plus

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

FEATURES

MICOSEEDS PLUS is a product that provides a rapid root development, improves plant efficiency in absorbing water and nutrients and increases the resistance to water stress and pathogens by fighting for space and nutrients, positively enhancing crops' quality and quantity.

MICOSEEDS PLUS consists of an inoculum based on spores of arbuscular mycorrhizal fungi (AM) called MicroStim, combined with our activator Microtech SX and PGPR Bacteria. For a better efficiency, the product is best applied directly on the roots or seeds and the packages are best stored in dry places away from direct sunlight.

APPLICATION

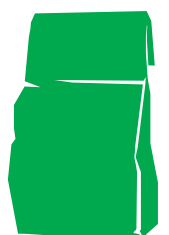
CROP	DOSAGE	USE AND SUGGESTION
Tray crops (seeding, ornamentals, etc.)	5-10 kg/ cubic meter (actual volume developed)	Mix evenly with the substrate before using. Best pH: 6-8
Wheat, barley, etc.	8-10 kg/ha	Distribute the product at sowing, directly in the hopper.
Maize, Sorghum, Sunflower, Soya bean, etc.	10-20 kg/ha	Distribute the product at sowing, using the micro-granulator or directly in the hopper.
Open field vegetables (tomatoes, pepper, eggplant, fennel, salad, melon, spinach, etc.)	10-30 kg/ha	Distribute the product at sowing or at transplant, using the micro-granulator or directly in the hopper.
Greenhouse vegetables	2 g/plant (2-5 kg/1000 s.m.)	Put the product next to the roots.
Fruit trees, grape, ornamental trees	20-30 kg/ha (10-20 kg/plant)	Distribute the product at sowing or at transplant manually or using mechanical micro-granulator.
Turfs	5-10 kg/1000 s.m.	In pre-sowing. Distribute evenly the product before the refinement of the seedbed.

COMPOSITION

BIOLOGICAL	
MicroStim	100 spores/gr
Microtech TX	10 ⁷ UFC/gr
PGPR	10 ⁷ UFC/gr
Pathogens	Absent

CHEMICAL-PHYSICAL	
Formulation	Micro granules 0,7-2 mm
Color	Light brown
Organic Matter	Non composted amendment
Specific weight	~ 0,9 - 1 Kg/dm ³

PACKAGING: 1 kg and 10 kg bag packages



Greenspoore

Nutryaction

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

FLUID NITROGENOUS ORGANIC FERTILIZER
Yeast extract containing Brown Algae

FEATURES

NUTRYACTION, thanks to its special formulation based on low molecular weight vegetal origin organic molecules, has positive effects on photosynthetic processes and supports all vegetable species' fast growth and a better activity of the plant species. We also suggest it to reduce Spring cold stresses. It also provides a better activity of the useful microflora, it stimulates the microflora development, becoming a nutrient for it.

NUTRYACTION provides its best performance when it is used in association with other products based on micro-organisms (Greenspore Line), before or during the application, it allows a more rapid and effective activation. This association guarantees a better preventive action against biotic stresses and a stimulating action towards plants foliar and roots development.

APPLICATION

CROP	DOSAGE	USE AND SUGGESTION
All the crops to pre-activate formulations based on microorganism (GreenSpore Line)	1-2 liters of Nutriaction for each liter of microbiological formulation.	Mix Nutryaction and the microbiological formulation with a little of water 2-6 hours before application.
Vegetables, fruit trees and flowers	100-200 ml/hl	Root immersion: before transplantation, immerse or wet the alveolar trays/cubes for a few minutes (do not wet the leaves with the product), then proceed with the transplant.
Vegetables	200-500 ml/1000 s.q.	2-3 fertigation applications every 7-8 days during all the production cycle.
Fruit trees in general and ornamentals	2-5 l/ha	2-3 fertigation applications during all the production cycle.
Vegetables, fruit trees and flowers (foliar application)	100-200 ml/hl	Starting from the first steps.
Flowers	100-200 ml/1000 s.q.	2-3 fertigation applications every 7-8 days during all the production cycle.
NOTE: (*) In case of flower and ornamental crops application, use the minimum dosage to prevent petal and buds staining		

NUTRYACTION can be used with common products used in agriculture.
Do not apply with mineral oils or mixed with alkaline reaction products.



PACKAGING: 1 l and 5 l packages

How to use
Nutryaction
with Greenspore
products



WARNINGS

Do not freeze. The product shelf life is two years if kept tightly closed and protected, in a dry place, away from heat and direct sunlight. It does not require refrigeration. The optimum storage temperature is 10-25° C. Unchanged product is not toxic. However, due to its high concentration, avoid contact with eyes and mouth. Do not swallow. Keep out of the reach of children. It can be used with common products used in agriculture. Do not apply with mineral oils or mixed with alkaline reaction products.

Twinspore

TWINSPORE line combines the standard fertilizing action with natural microorganisms' action, which helps the plant overcome several biotic and abiotic stresses. Very often we tend to ignore plant stresses, which have a key role in yield and quality reduction, also in terms of effectiveness and in the use of soil nutrients or elements provided by fertilization. Under bad weather conditions, in case of parasites attacks or during specific phenological stages like sowing or transplanting, crops are more exposed to stressful situations that can lead to significant yield reduction.

TWINSPORE line has been created to help farmers manage these problems using natural solutions balanced with plants physiology. As they are products "from nature to nature", we can obtain the following benefits:

- Low environmental impact and lower production costs
- Healthier productions
- Productions obtained by lower quantities of chemical inputs (fertilizants and pesticides)
- Productions respecting operators and final customers

This line has been created by Spore Green Biotech (SGB) System, specifically studied to promote a healthy and balanced plant development and to increase crop production, both in quality and in quantity, with a mix of natural ingredients skillfully blended to enhance the effects of the microbial group.



AgruTwin

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

EC FERTILIZER

Microelements fluid mixture with Boron (B), Manganese (Mn) and Zinc (Ammonium lignosulphonate).

FEATURES

AGRUTWIN is a liquid foliar product made of a vegetable-based organic compound added to a microbiological formulation (Microtech MX). This product stimulates plants' natural defenses against biotic and abiotic stresses, especially in the citrus crops. AGRUTWIN provides concentrate Manganese (Mn), Zinc (Zn) and Boron (B), which promote the proper photosynthesis process and the development of natural bio-stimulating formulations for vegetal growth.

APPLICATION (FOLIAR)

The product preparation must be made right before use: pour the quantity of the inoculum in the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Fruit trees (Pear tree, Peach tree, Cherry tree, Grape, Kiwi fruit, etc)	150-200 ml/hl	From spring new vegetative growth to starting enlargement.
Citrus	100-150 ml/hl	From new green stuff to fruit development.
Leafy and fruit vegetables (Tomatoes, Eggplants, strawberry, lettuce, fennel, etc.)	150-200 ml/hl	From first steps to the end of the cycle according to the need.
Industrial tomato	1,5-2 l/ha	From transplant to first pre-flowering.
Arable crops (Maize, Soya bean, canola, sunflower)	2-2,5 l/ha	Joined to post-emergency weeding treatments.
Ornamentals	200-250 ml/hl	From spring new vegetative growth to buds complete development.

NOTE: In greenhouses do not exceed 100 ml/hl

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION	
Boron (B) water soluble	1,0%
Manganese (Mn) water soluble	4,0%
Manganese (Mn) complexed by Ammonium Lignosulphonate	3,2%
Zinc (Zn) water soluble	6,0%
Zinc (Zn) complexed by Ammonium Lignosulphonate	4,8%
Elements complexed by LSA are stable in the pH range 3-8,5	
Inoculum Biological Composition: MICROTECH MX	

Use it in case of need only.
Do not exceed the dosage.

PACKAGING: 5 l Twin-Pack.



TwinSpore

PrevenTWIN

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

ORGANO-MINERAL FLUID SUSPENSION NK FERTILIZER

NK 15-5 + 3C with Iron (Fe), Manganese (Mn) and Zinc (Zn) low chlorine content.

FEATURES

PREVENTWIN is a liquid foliar fertilizer based on a new, innovative approach. It includes organic components made of vegetal origin amino acid basis, which are added to a microbiological formulation. High concentration and purity mineral elements complete this perfect bio-stimulating mix.

PREVENTWIN takes advantage of the presence of some microorganisms (Microtech SBX), which stimulate natural defenses against biotic and abiotic stresses.

These microorganisms and amino acids play a key role in protecting the plant against hydric stress stimulating the crop growth. These features are quite important during the first steps of fruits development and, in general, in case of climatic stresses.

APPLICATION (FOLIAR)

The product preparation must be made right before use: pour the quantity of the inoculum into the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Fruit trees (Pear tree, Peach tree, Cherry tree, Grape, Kiwi fruit, etc)	150-200 ml/hl	From spring new vegetative growth to complete fruit-setting.
Citrus	200-250 ml/hl	From new vegetative growth to fruits development.
Leafy and fruit vegetables (Tomatoes, Eggplants, Strawberry, Lettuce, Fennel, etc.)	150-200 ml/hl	From first steps to half cycle.
Industrial tomato	2-3 l/ha	From transplant to pre-flowering
Wheat	3-5 l/ha	From flag-leaf health to earing.
Maize, Sorgum, Soya bean, Sugar beet	3-4 l/ha	Joined to post-emergency weeding.

NOTE: In greenhouses do not exceed 100 ml/hl

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION	
Total Nitrogen (N)	15%
Organic Nitrogen (N)	0,5%
Nitric Nitrogen (N)	1,5%
Ureic Nitrogen (N)	13%
Potassium Oxide [K ₂ O] water soluble	5%
Iron (Fe) water soluble	0,02%
Iron (Fe) EDTA chelated	0,02%
Manganese (Mn) water soluble	0,02%
Manganese (Mn) EDTA chelated	0,02%
Zinc (Zn) water soluble	0,02%
Zinc (Zn) EDTA chelated	0,02%
Carbonio (C) biological organic	3,0%
pH range that guarantees a good chelated fraction stability: 4-9	
Inoculum Biological Composition: Microtech SBX	
Organic Fertilizers: Nitrogenous Organic Fertilizers mixture (vegetal origin).	
Mineral Fertilizers : urea, B.T.C. potassium salt, EDTA Iron, EDTA Manganese, EDTA Zinc.	



PACKAGING: 5 l Twin-Pack.

TWIN Control Grow

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

NPK 3-5-5 ORGANO-MINERAL FERTILIZER in suspension with low chlorine concentration.
Inoculum of mycorrhizal fungi - Organic Amendment: Simple non-composted vegetal amendment.

FEATURES

TWIN CONTROL GROW is a liquid bicomponent formulation made of an organic base enriched with nutrients and microbial inoculum based on Microtech PX.

TWIN CONTROL GROW is able to control plant and root system development, thus enhancing a good increase. The nutritive intakes, due to the presence of macro elements, integrate the nutritional requirements during the growth phases.

The microbial inoculum Microtech PX, joined to the organic bases, allows the plant to overcome galligen nematodes stress, which is often connected to physiological disorders of the root system in many crops.

APPLICATION (FERTIGATION)

The product preparation must be made right before use: pour the quantity of the inoculum into the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Leafy and fruit vegetables (Tomatoes, Eggplants, Strawberry, Lettuce, Fennel, etc.)	1 -2 l/1000 s.m.	From transplant and according to the need. At least 3 treatments (fertigation application).
Flowers (Buttercup, Anemone, Carnation, Barbatus ecc.)	1 -2 l/1000 s.m.	
Turfs	3-5 l/1000 s.m.	From first symptoms (better prevent in case of previous infections). At least 3 treatments (fertigation application).

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION		INOCULUM BIOLOGICAL COMPOSITION	
Total Nitrogen (N)	3%	Organic Amendment: Simple non-composted vegetal amendment.	
of which:			
Organic Nitrogen (N)	1%	MicroStim	0,00001%
Ureic Nitrogen (N)	2%	PGPR Bacteria)	10 ⁹ UFC/g
Phosphorous Anhydride (P ₂ O ₅) water soluble	5%	Pathogens absent	
Potassium Oxide (K ₂ O) with low chlorine content, water soluble	5%	The product also contains 10 ⁹ UFC/g of Microtech PX.	
Biological Organic Carbon (C)	10%		
Organic Fertilizers: Yeast fluid extract containing Brown Algae. Mineral Fertilizers: Phosphoric acid, B.T.C. potas- sium salts solution.			

PACKAGING: 5 l Twin-Pack.



TwinSpore

IronTWIN

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

EC FERTILIZER - Fertilizer solution based on Iron [o, o] EDDHA - LS

Organic Amendment: Simple not composted vegetal amendment Inoculum of mycorrhizal fungi

IRONTWIN is a liquid formulation based on Chelated Iron. It joins a microorganism pool based on a microbiological formulation (Microtech SX) with a natural origin fluid nutritious basis and a chemical formulation with Iron high content.

Besides Chelated Iron, the Chelated Iron, IRONTWIN is also enriched with natural chelantors (ligninsulfonates) and biologically activated organic matrices of vegetable origin.

The Streptomyces sp. makes the iron transferring into plants more efficient. This is due to the production of natural auxins and "siderophores", which are able to chelate Iron.

The technology Microtech SX promotes root development by stimulating both the absorption of the elements of the ground and the functionality of the roots themselves.

The product preparation must be made right before use: pour the quantity of the inoculum into the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Pear tree, Apple tree	20-30 l/ha	Post-harvest and spring applications (localized and by fertigation)
Peach tree, Plum tree, Cherry tree, Apricot tree.	20-30 l/ha	Spring applications (localized and by fertigation)
Kiwi fruit	15-20 l/ha	From budding to September by fertigation in different applications
Grape, Table grape	15-25 l/ha	Post-harvest and spring applications (by fertigation)
Citrus		Spring applications (localized and by fertigation)
Vegetables (strawberries, berries, etc.)	1-2 l/1000 s.m. (100 ml/hl)	Prevention during the post-transplant phase when the engraftment is completed, during the vegetative growth after the winter and within the flowering. In case of chlorosis (by fertigation)
Horticultural potted (pionsettia, primrose, gardenia, azalea, annual, etc.).	0,3-0,5 ml/lit d'acqua	Fertigation (500 ml working solution for 20 cm in diameter pots)
Ornamental trees (Conifers, broadleaf etc.).	3-5 l/1000 s.m.	Spring applications as soon as temperatures allow the root system development.

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION		INOCULUM BIOLOGICAL (SGB) COMPOSITION	
Iron (Fe) water soluble:	5%	MicroStim	0,00001%
Iron (Fe) water soluble chelated by EDDHA:	2%	Content bacteria in the rhizosphere:	10 ³ UFC/gr
Iron (Fe) water soluble complexed by LS:	3%	Raw materials: organic soil, mushrooms mycorrhizal, actinomycetes, bacteria in the rhizosphere.	
Chelating agent: EDDHA		GMO absent - Free from pathogenic organisms.	
Complexing agent: Lignosulfonic Acid		The product also contains 10 ⁹ UFC/g spores of Microtech SX	
PH range that guarantees a good stability of the chelated fraction: 4-10.			

PACKAGING: 5 l Twin-Pack.



TWIN Leaf

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

EC FERTILIZER

Microelements fluid mixture

Boron (B), Copper (Cu), Iron (Fe), Manganese (Mn) and Zinc (Ammonium lignosulphonate).

FEATURES

TWIN LEAF is a liquid foliar bio stimulating formulation based on a vegetal origin organic compound (algae extracts) added to a microbiological preparation (Microtech SBX). A pool of microorganisms completes the formulation. It takes advantage of the natural defenses against biotic and abiotic stresses. Algae Extracts, due to the high alginic acid concentration, has a key role in protecting the plant against hydric and thermic stresses. The Microtech SBX, due to its bio stimulating action, improves the photosynthesis process and vegetal growth.

APPLICATION (FOLIAR)

The product preparation must be made right before use: pour the quantity of the inoculum into the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Fruit trees (Pear tree, Peach tree, Cherry tree, Grape, Kiwi fruit, etc)	200- 250 ml/hl	From spring new vegetative growth to fruits enlargement.
Citrus	150-200 ml/hl	From spring new vegetative growth to complete fruit-setting.
Leafy and fruit vegetables (Tomatoes, Eggplants, Lettuce, Strawberry, Fennel, etc.)	150-200 ml/hl	From first steps to complete cycle.
Industrial tomato	1,5-2 l/ha	From transplant to pre-veraison.
Arable crops (Maize, Soya bean, Canola, Sunflower)	2-3 l/ha	Joined to post-emergency weeding and insecticide treatments.
Ornamentals and floriculture	150-200 ml/hl	First crop steps.

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION	
Boron (B) water soluble	1,0%
Copper (Cu) water soluble	0,30%
Copper (Cu) complexed by Ammonium lignosulphonate	0,24%
Iron (Fe) water soluble	1,0%
Iron (Fe) complexed by Ammonium lignosulphonate	0,8%
Manganese (Mn) water soluble	0,8%
Manganese (Mn) complexed by Ammonium lignosulphonate	0,64%
Zinc (Zn) water soluble	0,8%
Zinc (Zn) complexed by Ammonium lignosulphonate	0,64%
Elements complexed by LSA are stable in the pH range: 3-8,5.	
Inoculum Biological Composition: MICROTECH SBX	

PACKAGING: 5 l Twin-Pack.



TwinSpore

TWIN Antistress

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

TWIN ANTISTRESS is a special combination of a microbial inoculum based on MicroStim and Microtech SBX, joined with a natural origin fluid nutritious basis that prevents plant stress during all crop cycles.

FEATURES

The MicroStim microbial inoculum and a bacterial pool made of different strains belonging to several natural species contained in Microtech SBX aim to facilitate the overcoming stress.

The main feature of these microorganisms is their synergetic action in the activation of important physiological processes (thanks to the production of several active substances); moreover it impressively improves plant active and passive defenses. In addition, all the plant's necessary resources are made available to face different stresses. This can be achieved through a process of mineralization of the organic matter and the solubilization and vehiculation of important nutrients. Nutritional support is a specific mixture of different natural origin substances and extracts. To complete the formula there are both a yeast extract and a seaweed extract called Ascophyllum nodosum. The yeast extract, apart from being an important protein source, brings considerable quantities of organic Carbon; thanks to the antioxidant action led by some of its components, it is an excellent "radical scavenger", neutralizing both free radicals and possible reactions that cause oxidative stress.

APPLICATION (FERTIGATION)

The product preparation must be made right before use: pour the quantity of the inoculum into the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Vegetables and ornamentals	5-10 l/ha	During crop cycle
Greenhouse	500 ml - 1 l/1000 s.m.	
Dormant bench grafts and crop trees	10-15 l/ha	

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION	
Organic Nitrogen (N)	1%
Organic Carbon	10%
Organic matter <50 kDa	30%
pH	7,3

INOCULUM BIOLOGICAL (SGB) COMPOSITION	
MicroStim	0.00001%
Microtech SBX	10 ⁹ UFC/gr
Pathogens Absent	



PACKAGING: 5 l Twin-Pack.

TWIN Vitality

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

EC FERTILIZER

FEATURES

TWIN VITALITY is a liquid foliar fertilizer based on a new, innovative approach, made of a bacterial pool contained in Microtech SBX added to a natural origin fluid nutritious basis and chemical formulation and to a chemical formulation with high concentration.

TWIN VITALITY takes advantage of the presence of microorganisms (contained in Microtech SBX), which stimulate natural defenses against biotic and abiotic stresses; nutritional properties integrate the defensive action thanks to micro and macro elements.

Phosphorous, Boron and Zinc stimulate the cellular division during the first steps of the new vegetative growth, fruit-setting, starting enlargement. This feature is quite important during the first steps of fruit development and, in general, in case of climatic stresses.

APPLICATION (FOLIAR)

The product preparation must be made right before use: pour the quantity of the inoculum into the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Fruit trees (Pear tree, Peach tree, Cherry tree, Grape, Kiwi fruit, etc.)	200- 250 ml/hl	From spring new vegetative growth to starting fruits enlargement (ending cellular division phase)
Citrus	200- 250 ml/hl	From vegetative growth to fruit development (foliar application).
Leafy and fruit vegetables (Tomatoes, Eggplants, Strawberry, Lettuce, Fennel, etc.)	150-200 ml/hl	From first steps to fruit-setting.
Industrial tomato	3-4 l/ha	Before the formation of first fruits.
Sugar beet	3-4 l/ha	First step joined to anticercospora treatment.
Arable crops (Maize, Soya bean, canola, sunflower)	3-4 l/ha	Joined to post-emergency weeding. In case of low temperatures.

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION		INOCULUM BIOLOGICAL (SGB) COMPOSITION	
Phosphorous Anhydride (P ₂ O ₅) Total	20%	Organic Amendment: Simple non-composted vegetal amendment.	
Potassium Oxide (K ₂ O) Water soluble with low chlorine content.	5%	MicroStim	0,00001%
Boron (B) Water soluble	2%	Microtech SBX	10 ⁹ UFC/gr
Zinc (Zn) Water soluble	4%	Pathogens absent	

PACKAGING: 5 l Twin-Pack.



TwinSpore

RhizoTWIN

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

RHIZOTWIN is a specific association between an inoculum of useful natural microorganisms (MicroStim, Microtech TX, Microtech SX) and a totally natural liquid nutritional support.

FEATURES

The microbial inoculum, based on MicroStim and vital cones contained in Microtech TX and Microtech SX, has specific properties that promote roots development.

The nutritional support is an innovative formulation specifically developed to be used in this combination. Its particular preparation is based on natural extracts, yeast extract and Ascophyllum nodosum seaweed extract. Thanks to the great content of proteic Nitrogen and organic Carbon, RHIZOTWIN lets young plants rapidly develop from the very first crop cycle steps, reducing post-transplant and implant stress. RHIZOTWIN is particularly indicated during the first steps of crop development, like post-implant or vegetative growth; in all phases to achieve a good crop development.

APPLICATION (FERTIGATION)

The product preparation must be made right before use: pour the quantity of the inoculum growth, as well as in all phases the nutrient solution and shake well. To increase the effectiveness of the product it, is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Vegetables and ornamentals	5-10 l/ ha	During crop cycle
Greenhouse	500 ml -1 l/1000 s.m.	
Dormant bench grafts and crop trees	10-15 l/ha in fertigation	

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION	
Organic Nitrogen (N)	1%
Organic Carbon	10%
Organic matter <50 kDa	30%
pH	7,3%

INOCULUM BIOLOGICAL (SGB) COMPOSITION	
MicroStim	0.00001%
Microtech TX	10 ⁸ UFC/ gr
Microtech SX	10 ⁸ UFC/ gr
Pathogens Absent	



PACKAGING: 5 l Twin-Pack.

TWIN Balance

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

TWIN BALANCE is a specific association between a microbial inoculum, MicroStim, a bacteria pool based on different Bacillus and a completely natural liquid nutritive base. This specific formulation has been created for soil weakness, with the purpose of restoring natural biological fertility and rebalancing fields' nutritional level.

FEATURES

The microbial inoculum, based on MicroStim and a bacteria pool of different PGPR Bacillus, is able to enrich poor soils and restore the natural microbiological balance (thanks to the fast microorganisms development and their occupation of the available space), contributing to a balanced plant development. The nutritional support is a specific mixture of different substances and natural extracts. To complete the formulation, a yeast extract and Ascophyllum nodosum seaweed extract, with bio-stimulating and nutritive properties, resulting from a synergic action of different seaweed organic molecules as: amino acids, carbohydrates and Mannitol with a chelating action towards minerals.

APPLICATION (FERTIGATION)

The product preparation must be made right before use: pour the quantity of the inoculum into the nutrient solution and shake well. To increase the effectiveness of the product, it is recommended to use the solution within a few hours from preparation.

CROP	DOSAGE	USE AND SUGGESTION
Vegetables and ornamentals	5-10 l/ha	During crop cycle
Greenhouse	0,5 -1 l/1000 s.m.	
Dormant bench grafts and crop trees	10-15 l/ha	

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION	
Organic Nitrogen (N)	1%
Organic Carbon	10%
Organic matter <50 kDa	30%
pH	7,3

INOCULUM BIOLOGICAL (SGB) COMPOSITION	
MicroStim	0.00001%
PGPR Bacteria	10 ⁹ UFC/gr
Pathogens Absent	

PACKAGING: 5 l Twin-Pack.



Twinspore

Hu-Grow TWIN

SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

FEATURES

HU-Grow is a product based on a humic extract from Leonardite joined with the Microtech TX and Microtech SX microorganism pools. The humic extracts stimulate active transport and chelation of nutrients; they enhance the soil microbiological activity; they increase the root system development; they improve the plant resistance against soil salinity stresses.

The microorganism pools take nutrients from humic extracts, increasing their bio stimulating activity creating biologically active colonies next to the root system; these colonies contrast many pathogenic fungal and species for nutrients and space. Furthermore, microorganisms promote the transport and absorption of nutrients in the soil.

The combined action of humic acids from Leonardite and Microtech pool optimizes the crop development functionalities.

APPLICATION (FERTIGATION)

CROP	DOSAGE	USE AND SUGGESTION
Greenhouse Leafy and fruiting vegetables	1,5-2 l/1000 mq	From first steps of crop cycle to half cycle.
Open field vegetables (lettuce, industrial tomatoes, potatoes, zucchini, melon etc.)	10-15 l/ha	From transplant to intermediate steps
Fruit trees and grape	5-10 l/ha	From spring new vegetative growth to fruits complete enlargement.
Flower in pot (poinsettia, primrose, gardenia, hydrangea, azalea, annual, etc.)	1,5-2 l/1000 mq	During vegetative development and plant development.
Fruit and ornamental nursery (Conifers, deciduous, etc.)	10-15 l/ha	4-5 applications from first steps

COMPOSITION (% W/W)

NUTRITIONAL BASE CHEMICAL COMPOSITION	
Basic Organic matter	14%
Total Organic matter	70% s.s.
% Humified organic matter	80% s.s.
Organic Nitrogen (N)	0.7% s.s.
C/N Balance	60
Extracting mean: Potassium Hydroxide (KOH)	

INOCULUM BIOLOGICAL (SGB) COMPOSITION	
MicroStim	0.00001%
Microtech TX	10 ⁸ UFC/ gr
Microtech SX	10 ⁸ UFC/ gr
Pathogens Absent	



PACKAGING: 5 l Twin-Pack.

How to use TWINSPORE



TwinSpore

WARNINGS

Do not freeze. The product shelf life is two years if kept tightly closed and protected, in a dry place, away from heat and direct sunlight. It does not require refrigeration.

The optimum storage temperature is 10-25° C. Unchanged product is not toxic. However, due to its high concentration, avoid contact with eyes and mouth. Do not swallow. Keep out of the reach of children. It can be used with common products utilized in agriculture. Do not apply with mineral oils or mixed with alkaline reaction products.

Growspore

Microspore strongly believes that liquid fertilization represents a way to supply specific vegetable nutritions also to extensive crops like cereals or maize.

Microspore technology has developed a specific formulation for those farmers focused on maximizing their yields and on providing natural resistance to stresses thanks to the presence of microorganisms.

GROWSPORE has selected the highest quality of raw materials with the purpose of creating these innovative products. Seaweed necessary selection for products formulation has been

managed by a strict control on quality process both at the source and before the product transformation.

This line has been created by Spore Green Biotech (SGB) System, specifically studied to a healthy and balanced plant development and to increase crop production, both in quality and in quantity, with a mix of natural ingredients skillfully blended to enhance the effects of the microbial group.



SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

Specific action product - Leonardite humic extracts with KOH

FEATURES

Growspore RT results from Microspore's research activities. This product joins a high concentration humic extracts base with the Microtech SBX formulation, which provides a synergic action in the soil.

The humic extracts enhance the microflora and associated bacteria development and provide them with nutrients. In particular, the fulvic fraction directly stimulates the root system development using molecules of low molecular weight. The humic fraction, instead, not only provides nutrients to the bacterial flora, but also performs nutrients chelation that stimulate their absorption.

The bacteria pool included in Microtech SBX stimulated during the roots reproduction also provides the following features:

- It promotes the root growth producing hormonal substances during their natural development.
- It produces substances against rhizosphere pathogens invading their space in the soil.
- It activates the natural hormones synthesis (IAA) which helps a the better growth of the plant.
- It helps transfer of nutrients to the roots (siderophores action).

APPLICATION

CROP	DOSE	USE AND SUGGESTION
Fertigation		
Greenhouse Leafy and fruiting vegetables	200-400 ml/1000 s.q.	From first steps of crop cycle to half cycle.
Open field vegetables (lettuce, industrial tomatoes, potatoes, zucchini, melon etc.)	3-4 l/ha	From transplant to intermediate steps
Fruit trees and grape	2-3 l/ha	From spring new vegetative growth to fruits complete enlargement.
Flower in pot (poinsettia, primrose, gardenia, hydrangea, azalea, annual, etc.)	1,5-2 l/1000 s.q.	During vegetative development and plant development.
Fruit and ornamental nursery (Conifers, deciduous, etc.)	1,5-2 l/ha	4-5 applications from first steps
NOTE: the indicated dosages integrate the normal fertigation applications or the soil liquid applications		

COMPOSITION (% W/W)

Basic Organic matter	14%
Total Organic matter	70% s.s.
Humified organic matter on organic matter	80% s.s.
Organic Nitrogen (N)	0,7% s.s.
C/N Balance	60
Extracting mean: Potassium Hydroxide (KOH)	

Inoculum Biological composition: Microtech SBX

PACKAGING: 1l bottle, 5 l tank



SOLUTION FOR THE PREVENTION OF BIOTIC AND ABIOTIC STRESSES

CE FERTILIZER - Microelements fluid mixture with Boron (B), Iron (Fe), Manganese (Mn) and Zinc (Ammonium lignosulphonate)

FEATURES

GROWSPORE LF results from Microspore's research activities. It has a composition based on microelements which is joined with a complexing organic matrix integrated by the microbiological formulation Microtech SBX. The organic matrix performs a stimulating action during the leaf biochemical processes (photosynthesis and protein synthesis), and it also protects crops against hydric and thermic stresses. Microtech SBX, due to its formulation based on different microbial strains, is able to stimulate the production of natural phytohormones, it prevents critic conditions caused by colonies pathogenic, produces substances which promote the plant resistance and also creates healthy environments by colonizing the vegetal tissues.

GROWSPORE LF, thanks to its formulation, is able to enhance crops since their very first steps, both stimulating the vegetative functions and helping the crops in the next steps.

APPLICATION

CROP	DOSE	USE AND SUGGESTION
Foliar		
Fruit trees (Pear fruit, Apple tree, peach tree, Cherry tree, Grape, Kiwi fruit, etc.)	200- 250 ml/hl	From spring new vegetative growth to fruits development
Citrus	150-200 ml/hl	From new vegetative growth to fruit development.
Leafy and fruiting vegetables (tomatoes, eggplant, strawberries, lettuce, fennel, etc.)	150-200 ml/hl	From first steps to complete cycle.
Industrial tomatoes	1,5-2 l/ha	From transplant to pre-veraison
Arable crops (Maize, Soya bean, Rapeseed, Sunflowers, etc.)	2-3 l/ha	Joined to post-emergency weeding and insecticide.
Ornamentals and flowers	150-200 ml/hl	First crop steps
NOTE: the indicated dosages integrate the normal fertigation applications or the soil liquid applications		

COMPOSITION (% W/W)

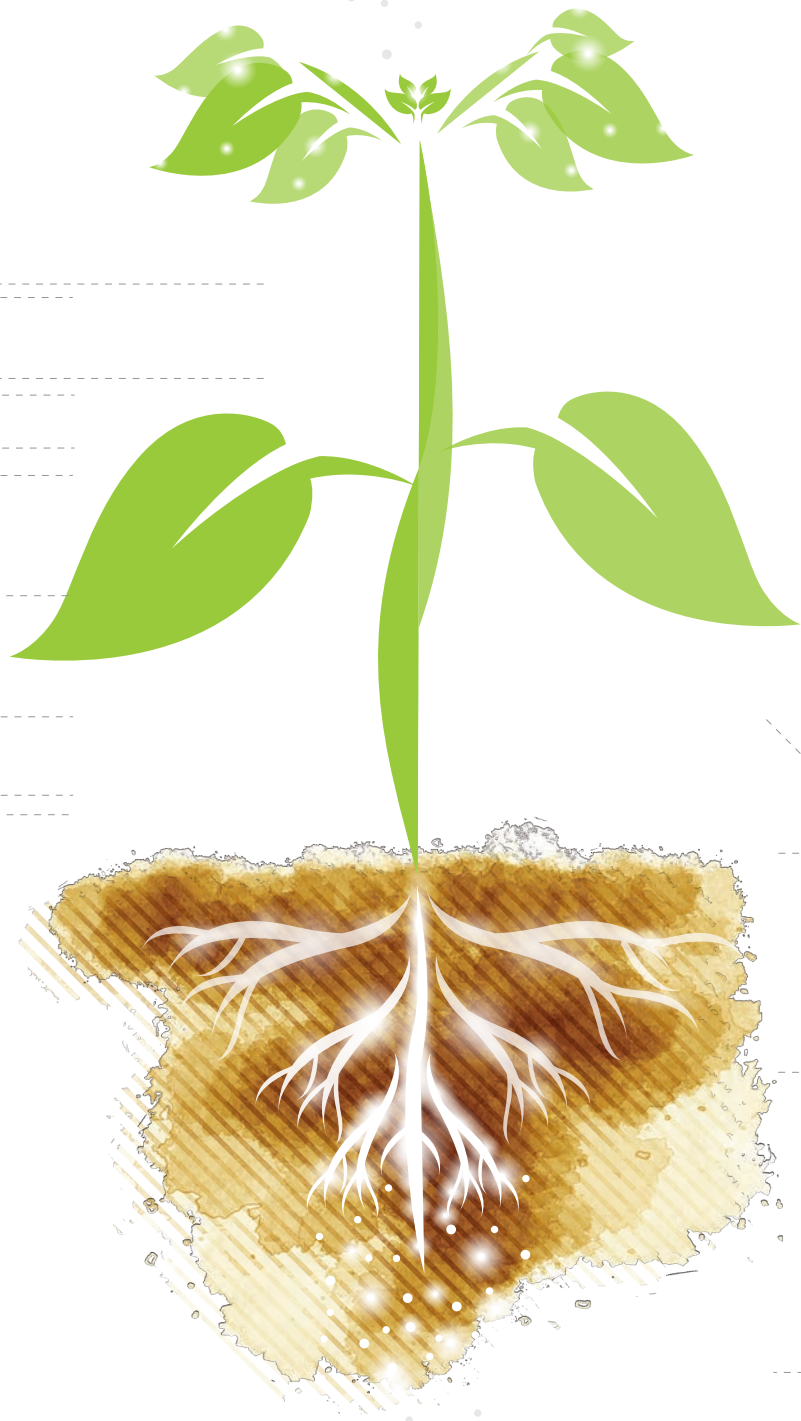
Boron (B) Water Soluble	0,5%
Copper (Cu) Water Soluble	0,25%
Copper (Cu) Complexed by Ammonium lignosulphonate	0,2%
Iron (Fe) Water Soluble	1,5%
Iron (Fe) Complexed by Ammonium lignosulphonate	1,2%
Manganese (Mn) Water Soluble	1,0%
Manganese (Mn) Complexed by Ammonium lignosulphonate	0,8%
Zinc (Zn) Water Soluble	1,0%
Zinc (Zn) Complexed by Ammonium lignosulphonate	0,8%
Elements complexed by LSA are stable in the pH range 3-8,5	

Inoculum Biological composition: Microtech SBX

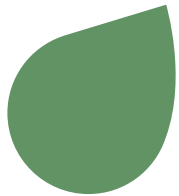


PACKAGING: 1 l bottle, 5 l tank

Growspore

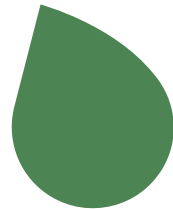


The synergic action of **Growspore RT** and **Growspore LF** increases the root development and improves all the plant processes.



fertilizers
by nature

activators and
biostimulants
of plant origin



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Desertification and soil erosion created by chemical processes have caused devastating effects on agriculture. We know that each plant can express its best potential thanks to microbial intelligence, which we analyze and study in order to develop biotech solutions. Microspore is producing and distributing a number of natural and organic water- soluble and slow-release fertilizers.

Comerco's production and R&D is located in Greece and Italy and our research and Development team produces new fertilizer blends for customers' changing requirements.

Since 2012 a new export center is established in Athens Greece and from here

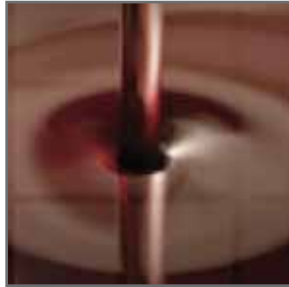
Comerco distribute's a wide range of organic fertilizers and microbial products in liquid and granular form in many countries around the world.

Comerco is one of the largest, natural and organic fertilizer companies, with products available worldwide.



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The fertilizer sector

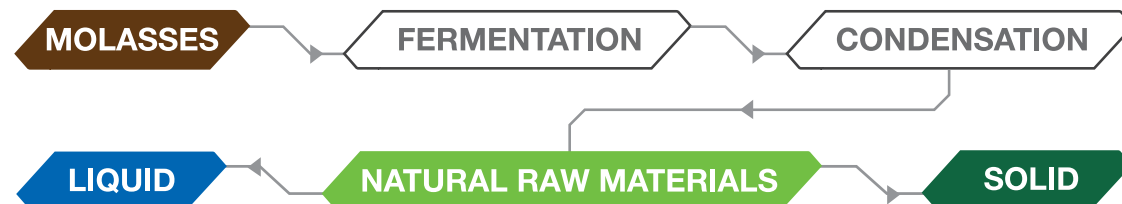


Starting from **natural matrices of plant origin**, we produce a broad range of specialized **fertilizers and biostimulants**. All of our raw materials are derived from natural, **totally renewable sources**.

No chemicals or synthetic molecules are added in our production processes; the only process we use is **biological fermentation**.

This catalogue presents our **best products**, result of our **vast experience** in natural raw materials.

These are exclusive, **high biological value** products characterized by **high biostimulant capacity**.



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Research & Development

We make use of **international knowledge and research centres** to provide **cutting-edge technologies** and technical means to resolve **the emerging problems of modern agriculture**.



Environment

We safeguard the **environment**:

- Reusable containers
- Use of raw materials with low environmental impact
- Agricultural production optimizing the resources used.

Using **nutritional plans** makes it possible to reduce excessive usage of water resources (**SAVE WATER**) and atmospheric carbon emissions CO₂ (**CARBON FOOTPRINT**).



Plant Wellness

The use of **our products** increases plant energy. Indeed, the greater the energy, **the more resistant the plant will be** and this, in turn, **increases crop quality and quantity**.

A good **nutritional balance** yields healthier plants with **better shelf life** and significantly reduces the use of agricultural chemicals (**OBJECTIVE: ZERO RESIDUE**).



Organic Agriculture

We offer a broad line of products that can be used in organic agriculture for a wide range of purposes (**in-depth fertilization, fertigation or foliar applications**); these products enable modern agriculture to achieve **high production yields with high quality and shelf life**.

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COMERCO:

AA

AMINO ACIDS GLUTAMIC ACID

Besides being a precursor to the synthesis of all other essential amino acids, being particularly rich in Glutamic Acid, the amino acid complex increases chlorophyll synthesis, regulates stomatal opening and increases pollen fertility.

The fact that the amino acids in Comerco products are completely of plant origin enables unrestricted application on all edible portions of the crops.

H&FA

HUMIC & FULVIC ACIDS

They facilitate cell division and extension in both shoots and roots, thus stimulating development.

They play a role in regulating plant growth through an auxin-like action.

They neutralize the toxic molecules present in the soil and reduce leaching of nutrients. They boost the activity of the soil's beneficial bacterial flora.

The humic and fulvic acids in our products are obtained through biological fermentation and not from chemical extraction.

KLP

ALGA EXTRACTS ECKLONIA MAXIMA

Ecklonia maxima is an alga typical of the southern Atlantic.

Its extract is particularly rich in natural plant growth regulators [Auxin: Cytokinins = 150:1]. It offers all the effects attributed to auxin activity: rooting, fruit setting, fruit size. It also repels insects and cryptogams.

The Ecklonia Maxima extract is obtained through a mechanical process that, in just eight hours after harvest, yields the finished product, thus the natural plant growth regulators do not undergo even the slightest alteration.

BT**GLYCINE
BETAINE**

Glycine Betaine belongs to the family of osmotic regulators, produced by plants when exposed to thermal, hydric and salt stress.

This particular feature makes Glycine Betaine essential in the critical phases of crop development: Germination, Setting, Enlargement and Ripening.

The Glycine Betaine contained in our products is extracted exclusively from sugar beets, without the use of any chemical additives.

PGA**POLYGLUTAMIC
ACID**

Polyglutamic Acid is a highly hydrophilic molecule and thus has high moisturizing capacity. It can absorb significant amounts of water which it then releases gradually, increasing nutrient availability.

It has good buffering capacity vs. soil pH in the 4 - 7 range. It also has a strong metal chelating effect which means less leaching of N, P and Ca. It promotes solubilisation of Ca, Fe, Mg and K phosphates through their natural "chelation".

Polyglutamic Acid contained in our products comes from the fermentation of legume flours, without the use of any chemical additives.

GLY**SUGARS**

Mainly composed of sucrose with simple carboxylic chains, they are easily absorbed by the plants. They help to transport other elements to the plant tissues and, at the same time, provide energy to the crops. In the soil, they boost the development of useful microorganisms, thus contributing to plant health.

The sugars contained in our products are extracted from vegetable tissues (sugar beet and sugar cane).

PHY**PHOSPHOROUS
ORGANIC PLANT-
BASED FERTILIZERS**

Mainly composed of phytates, they provide the plant with easily assimilated, highly energetic phosphorus. They are particularly useful in the early stages of new plant development and at resumption of tree growth since they boost ATP regeneration and protein biosynthesis in growing tissues.

The phytates are extracted mainly from seeds and dried fruits where they constitute the energy supply for new plant development.



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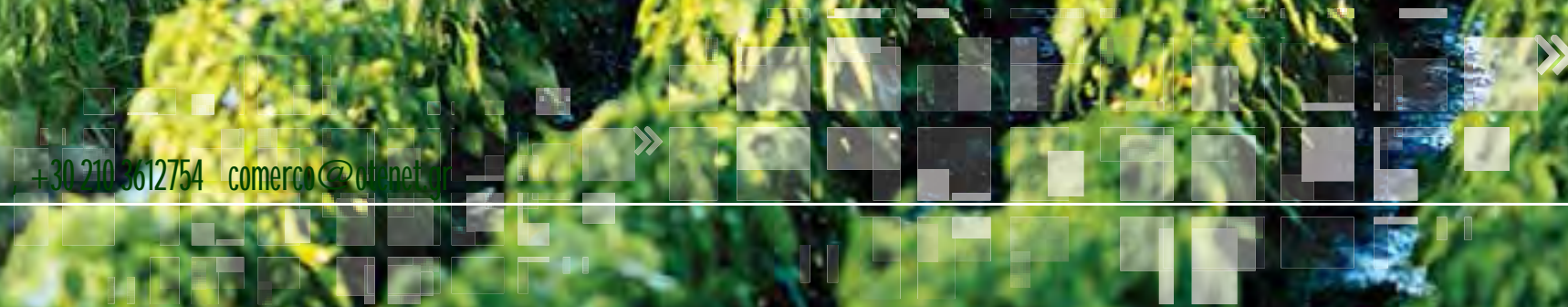
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Organic Plant-Based Fertilizers and Biostimulants

NEW COMERCO ORGANIC MATRICES: PLANT-BASED ENERGY FOR YOUR PLANTS

The organic matter in the soil plays an essential role throughout the entire crop cycle: **it improves the soil's physical, chemical and biological properties.**

The organic substance of plant origin not only provides nutrients but also the **amino acids and enzymes** specific of the plants being cultivated; this means that the plants can use them 'as is', without expending any energy to modify them. They also meet the demand of foreign markets requiring **products certified** free of nutrients of animal origin.

Comerco combines its line of organic fertilizers with specific products containing strains of **beneficial micro-organisms**: this can revitalize even the most depleted, least fertile soils. The result is high yield, high quality, residue-free crops.

Organ Active

ENERGY FOR THE PLANTS



INCREASES EFFECTIVENESS OF THE NUTRIENTS (diffusion, modulation, absorption)

AA
H&FA
GLY



ENERGY FOR BOTH THE PLANTS AND BENEFICIAL MICRO-ORGANISMS

AA
H&FA
GLY



REGULATES AND BALANCES PLANT GROWTH (roots, shoots, fruits)

AA
H&FA



INTENSIFIES PHOTOSYNTHESIS AND BOOSTS CROP YIELDS

AA
H&FA

NUTRITIONAL COMPOSITION

	%
Total nitrogen [N]	5
Potassium oxide [K ₂ O]	5
Organic plant-based substance	36
Humic acids	5
Fulvic acids	8
Free sugars	4
Plant-based laevorotatory amino acids	12

TECHNICAL CHARACTERISTICS

S.W.	1,25 kg/lt
pH	5

DOSAGE AND METHODS OF USE - FERTIGATION

ALL CROPS	50 kg/ha each month in 2-3 applications
Additional applications are recommended during the crop cycle.	
As vehicle for root-absorbed microelements (iron chelate), 50-100 kg/ha in a single application	



Tank 6kg

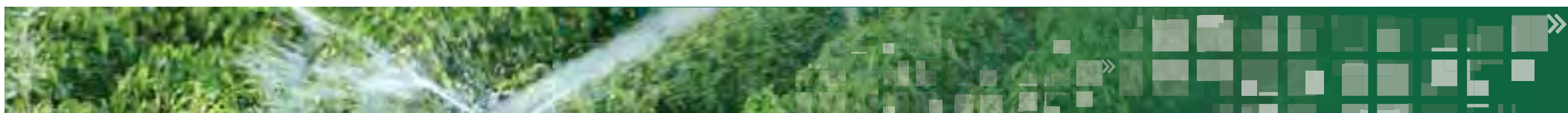


Tank 25kg



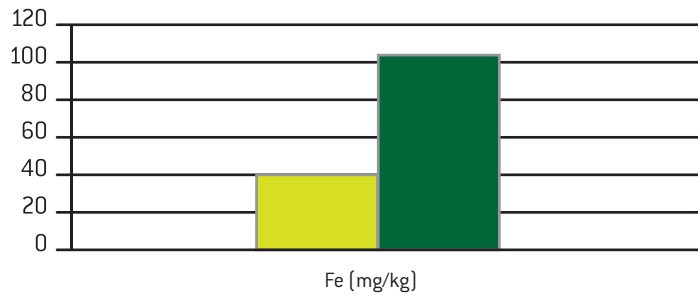
IBC 1250kg

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ORGAN ACTIVE ON FRUITS

Level of iron as per leaf analysis



- IRON CHELATE
- IRON CHELATE + ORGAN ACTIVE

ORGAN ACTIVE works in synergy with the supply of microelements, boosting their efficiency by reducing losses and increasing transport

ORGAN ACTIVE ON LEAFY VEGETABLES



ORGAN ACTIVE



TEST - UNTREATED

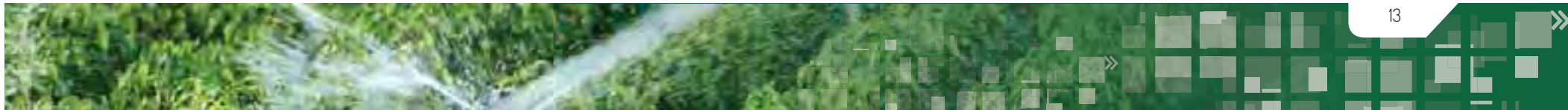


ORGAN ACTIVE



TEST - UNTREATED

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Vegetal B60

ANTI-STRESS PRODUCT
FOR FOLIAR APPLICATIONS



REDUCES
SENSITIVITY TO THERMAL,
HYDRIC AND SALT STRESS

BT



BOOSTS
PHOTOSYNTHESIS
(BIOSTIMULATION EFFECT)
AND NITROGEN FIXATION

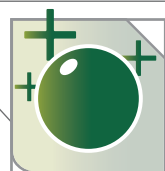
BT



ORGANIC NITROGEN
OF PLANT ORIGIN

BT

AA



GREATER FRUIT
COLOUR

BT

AA



REGULATES AND
BALANCES PLANT
GROWTH
[roots, shoots, fruits]

AA



INTENSIFIES
PHOTOSYNTHESIS AND
BOOSTS CROP YIELDS

AA

NUTRITIONAL COMPOSITION

	%
Total organic nitrogen [N]	5
Organic carbon [C] of biological origin	12
Organic plant-based substance	30
GLYCINE BETAINE	>30
PLANT-BASED LAEVOROTATORY AMINO ACIDS	>5

TECHNICAL CHARACTERISTICS

S.W.	1,14 kg/lt
pH	7,1

DOSAGE AND METHODS OF USE - FERTIGATION

ALL CROPS	Use every 10-15 days during the growth phase or when stress factors are expected	10-15 kg/ha
-----------	--	-------------

DOSAGE AND METHODS OF USE - FOLIAR

VEGETABLES	During growth, every 7-10 days	5-6 kg/ha
ORCHARDS, GRAPE-VINES, OLIVE TREES	3-4 applications, 10-15 days apart from start of flowering	
CEREALS AND INDUSTRIAL CROPS	During growth stages	

N.B.: not compatible with copper or sulphur-based products.



Various and repeated tests have shown that, given its osmotic protective action, foliar applications of GLYCINE BETAINE offer the following effects:

- reduced damage due to drought
- reduced damage due to salinity
- reduced damage due to low temperatures (chilling)
- reduced damage due to high temperatures
- reduced damage due to Fruit Cracking
- increased fruit setting

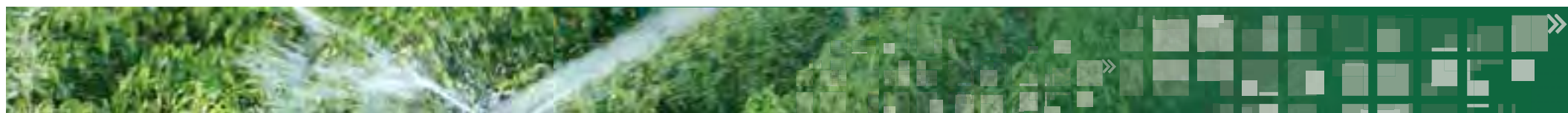


Tank 6kg



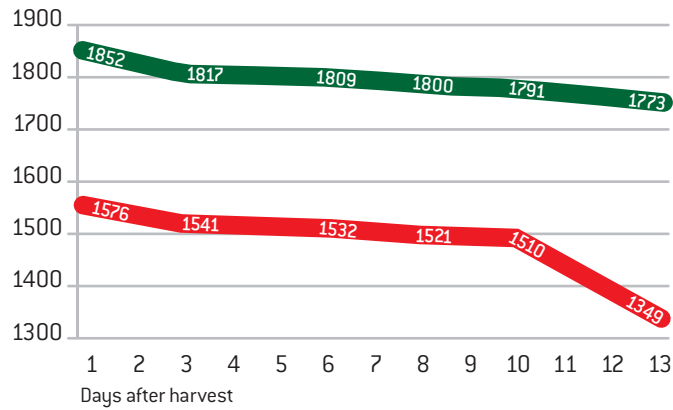
Tank 20kg

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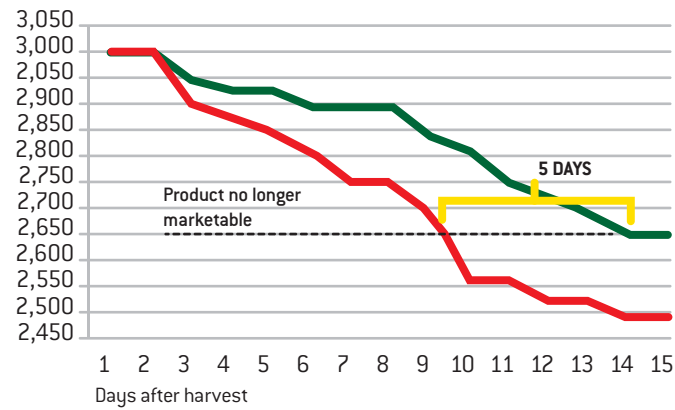
VEGETAL B60 IMPROVES SHELF LIFE

Storage test – APRICOTS (cv) Faralia
Weight of 10 fruits, in grams



■ Test - untreated ■ Vegetal B60

Storage test – Rocket, storage temperature 3° C
Initial sample weight: 3 kg



■ Test - untreated ■ Vegetal B60



VEGETAL B60 IMPROVES FRUIT QUALITY



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Vegetal β etaphos

FOLIAR BIOACTIVATOR OF
ROOTING AND FRUIT BEARING



	SOURCE OF PHOSPHOROUS HIGH AVAILABILITY FOR THE PLANTS	PHY
	REDUCES SENSITIVITY TO THERMAL STRESS	BT
	BOOSTS PHOTOSYNTHESIS AND IMPROVES EFFECTIVENESS OF NITROGENOUS FERTILIZATION	BT AA
	INCREASES THE EFFECTIVENESS OF NUTRIENTS [absorption and transport]	AA
	SOURCE OF ENERGY FOR THE PLANT (ATP)	PHY AA
	REGULATES AND BALANCES DEVELOPMENT [roots, shoots, fruits]	PHY AA

COMPOSITION	%
Organic PLANT-BASED substance	30
Organic nitrogen (N)	3,5
Phosphorous pentoxide (P ₂ O ₅)	3
Potassium oxide (K ₂ O)	2,5
Organic carbon (C) of biological origin	15
Phytic Acid	7,5
L-Glutamic Acid	1,5
Glycine Betaine	10

PERIOD AND DOSAGE - FOLIAR		
POME FRUITS	From germination to full flowering, 2-3 applications	4 kg/ha
STONE FRUITS	From moment buds start to bloom, 2 applications	5 kg/ha
OLIVE TREES	From vegetative growth to onset of flowering, 2 applications	6 kg/ha
ACTINIDIA	From moment buds start to bloom, 3 applications	4 kg/ha
GRAPEVINES	In pre-flowering, 2 applications	4 kg/ha
LEAFY VEGETABLES	Post-transplanting, 2-3 applications in 12-15 days	6 kg/ha
FRUITING VEGETABLES	After transplanting to pre-flowering, 3-4 applications	5 kg/ha
POTATOES	From vegetative growth to pre-flowering	6 kg/ha
ORNAMENTAL PLANTS	After transplanting to onset of vegetative growth	4 kg/ha

Is miscible with COPPER and SULPHUR on TOMATOES, GRAPEVINES, OLIVE TREES AND ARTICHOSES

**ORGANIC
PHOSPHOROUS**

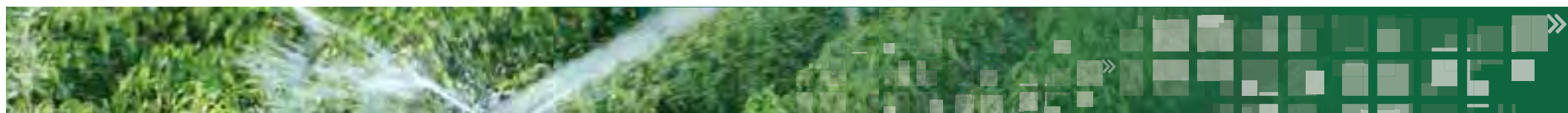
*of PLANT ORIGIN,
READILY ASSIMILABLE*

Tank 6kg

Tank 12kg

Tank 25kg

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Organ Star

NUTRIENT FOR ALL OCCASIONS



**SAVES WATER AND
MAKES NUTRIENTS MORE
READILY AVAILABLE**

AA

H&FA

KLP



**INCREASES
BENEFICIAL MICROBIAL
FLORA**

AA

H&FA



**BOOSTS NEW ROOT
AND NEW SHOOT
DEVELOPMENT**

AA

H&FA

KLP



**REDUCES SENSITIVITY
TO BIOTIC AND
ENVIRONMENTAL STRESSES**

AA

H&FA

KLP



**INTENSIFIES
PHOTOSYNTHESIS AND
INCREASES CROP YIELD**

AA

H&FA

NUTRITIONAL COMPOSITION

	%
Total organic nitrogen [N]	2
Potassium oxide [K ₂ O]	3,5
Organic matter	30
Humic acids	6
Fulvic acids	8

TECHNICAL CHARACTERISTICS

S.W.	1,25 kg/lt
pH	5

DOSAGE AND METHODS OF USE - FERTIGATION

FRUIT-BEARING PLANTS, GRAPEVINES, OLIVE TREES	At least 2-3 applications, 7-10 days apart, are recommended during the initial stages of development or on resumption of growth	50 Kg/ha when buds open
CEREALS, LEGUMES AND INDUSTRIAL CROPS		25 Kg/ha during the initial stages of development
TOMATOES, PEPPERS AND AUBERGINES		2-10 Kg/1000m ² after transplanting
COURGETTES, CUCUMBERS, MELONS AND WATERMELONS		2-10 Kg/1000m ² after transplanting
STRAWBERRIES		1-2 Kg/1000m ² post-transplanting and pre- flowering

DOSAGE AND METHODS OF USE - FOLIAR

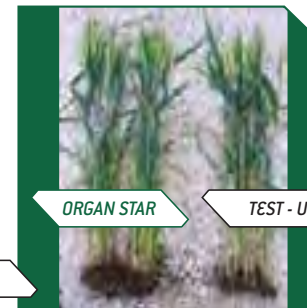
ALL CROPS	200-250 gr/hl
CEREALS	3-5 kg/ha

SOAK PLANTS	Prepare 3-5% solution and insert roots
--------------------	--



ORGAN STAR

TEST - UNTREATED



ORGAN STAR

TEST - UNTREATED



Bottle 1kg

Tank 6kg

Tank 25kg

IBC 1250kg

Comerco Agrotechnology , +30 210 3612754 comerco@otenet.gr

PG1 Fluid

EFFICIENT USE OF WATER AND QUALITY



INCREASES EFFICIENT USE OF WATER AND NUTRIENTS

PGA

KLP



INCREASES ROOT SYSTEM DEVELOPMENT

PGA

KLP



INCREASES CROP YIELD AND QUALITY

PGA

KLP



REDUCES NITRATE POLLUTION OF THE WATER TABLE AND ATMOSPHERIC CO₂ EMISSIONS

PGA

NUTRITIONAL COMPOSITION

	%
γ Polyglutamic acid NT	3 (min)
Vegetable proteins	6
Sugars	3,5
B vitamins	250 mg/kg

TECHNICAL CHARACTERISTICS

S.W.	1,20 kg/lit.
pH	5,5

DOSAGE AND METHODS OF USE

	FERTIGATION	SOAKING ROOTS PRE-TRANSPLANTING	SOAKING SEEDS
VEGETABLES	Apply at a dose of 10-15 kg/ha starting from the onset of the growth phase and repeat every 20-30 days.	Solution containing 200 gr every 100 lt of water. Insert the shoots in the substrate for a few minutes.	-
ORCHARD, GRAPEVINES, OLIVE TREES	Apply at a dose of 15-20 kg/ha starting from resumption of growth and repeat every 20-30 days.	Solution containing 2 kg every 100 lt of water. Soak stocks or cuttings for 12-24 hours.	-
CEREALS (MAIZE, SORGHUM)	Use in combination with nitrogenous nutrients, reducing the nitrogen by 20%	-	Apply 150 gr of product every 100 kg of seed. Increases plantlet germinability and rooting capacity.

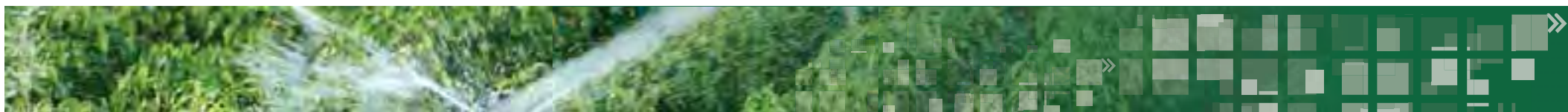


Tank 5kg



Tank 20kg

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Matur Plus

COLOUR AND UNIFORM RIPENING



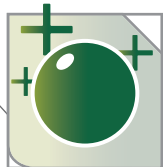
FAST, UNIFORM ONSET OF FRUIT VERAISON

AA
BT



NO OVER-RIPENING

AA
BT



IMPROVES THE QUALITATIVE PROPERTIES OF THE FRUIT (colour, consistency and shelf life)

AA
BT
GLY

NUTRITIONAL COMPOSITION

	%
Total organic nitrogen [N]	1,5
Potassium oxide [K ₂ O]	7
Organic carbon [C] of biological origin	15
Betaine	1

TECHNICAL CHARACTERISTICS

S.W.	1,25 kg/lt
pH	5

DOSAGE AND METHODS OF USE

TOMATOES FOR INDUSTRY Apply with 700 lt water/ha	When 40-50% of fruits are red	5-8 kg/ha
	7-10 days later	5-8 kg/ha
	7-10 days later *	6-9 kg/ha
FRUITING VEGETABLES (TOMATOES AND PEPPERS) Apply with 700-1000 lt water/ha, spraying only on ripening fruits	Onset of ripening	10 kg/ha
	10 days later	10 kg/ha
DESSERT GRAPES Apply with 700-1000 lt water/ha	When 40-50% of fruits are red	5-8 kg/ha
	7-10 days later	5-8 kg/ha
	7-10 days later *	6-9 kg/ha
STONE AND POME FRUITS Apply with 1000-1200 lt water/ha	When 40-50% of the fruits have started ripening	5-8 kg/ha
	10-15 days later	6-8 kg/ha
	10-15 days later	6-9 kg/ha

[*] in early ripening varieties, two applications may be enough

WARNING: DO NOT MIX WITH PESTICIDES THAT PRODUCE ALKALINE REACTIONS OR WITH PRODUCTS CONTAINING COPPER, SULPHUR AND MINERAL OILS



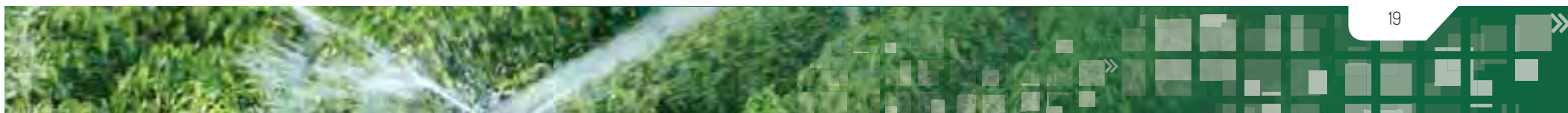
MATUR PLUS



TEST - UNTREATED



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Betabio Full

THE ONLY NPK OF COMPLETELY PLANT ORIGIN



ORGANIC PHOSPHOROUS OF PLANT ORIGIN

PHY



INCREASES NUTRIENT EFFICIENCY
[transport, modulation, absorption]

AA

GLY



ENERGY FOR THE PLANTS AND FOR BENEFICIAL MICRO-ORGANISMS

AA

GLY



REGULATES AND BALANCES PLANT GROWTH
[roots, shoots, fruits]

AA



INTENSIFIES PHOTOSYNTHESIS ACTIVITY AND INCREASES YIELDS

AA

COMPOSITION

	%
Organic PLANT-BASED substance	30
Total nitrogen [N]	3
Total Phosphorous pentoxide [P ₂ O ₅]	4
Potassium oxide [K ₂ O], soluble in water	3
Organic carbon [C] of biological origin	15

TECHNICAL CHARACTERISTICS

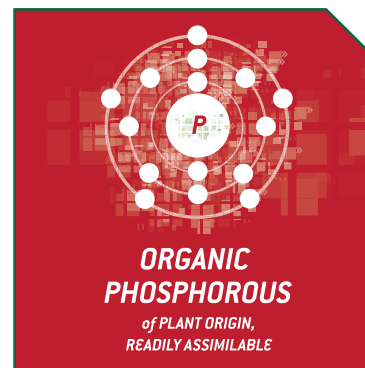
S.W.	1,20 kg/lt
pH	4,2

DOSAGE AND METHODS OF USE: FERTIGATION

Fertigation (above canopy hose or sprinkler application with abundant volumes of water)

Application repeated throughout the crop cycle

All crops 40-100 Kg/ha per month in 2-3 applications (minimum 20 kg/ha per application)

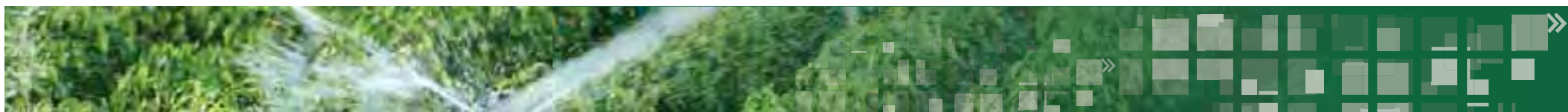


Tank 25kg



IBC 1250kg


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Betabio Active


ENERGY FOR ORGANIC CROPS

- 


INCREASES NUTRIENT EFFICIENCY
[transport, modulation, absorption]

AA
GLY
- 

ENERGY FOR THE PLANTS AND FOR BENEFICIAL MICRO-ORGANISMS

AA
GLY
- 

REGULATES AND BALANCES PLANT GROWTH
[roots, shoots, fruits]

AA
- 

INTENSIFIES PHOTOSYNTHESIS ACTIVITY AND INCREASES YIELDS

AA

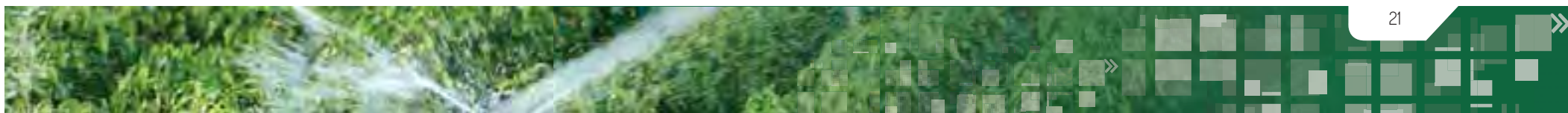
NUTRITIONAL COMPOSITION	%
Total organic nitrogen [N]	3
Potassium oxide [K ₂ O]	5
Organic matter	36
Sugars	4

TECHNICAL CHARACTERISTICS	
S.W.	1,25 kg/lt
pH	7,5

DOSAGE AND METHODS OF USE: FERTIGATION	
ALL CROPS	50 kg/ha each month in 2-3 applications
Additional applications are recommended during the crop cycle.	

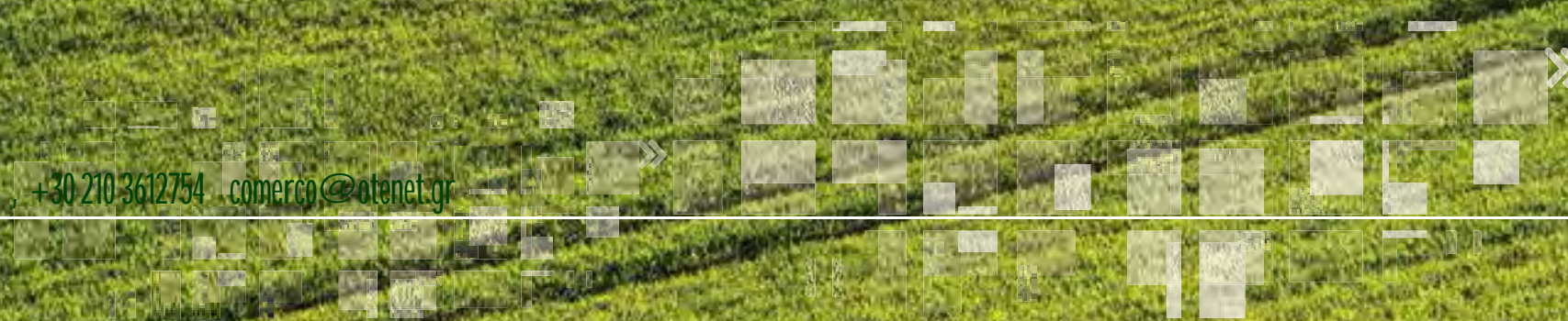


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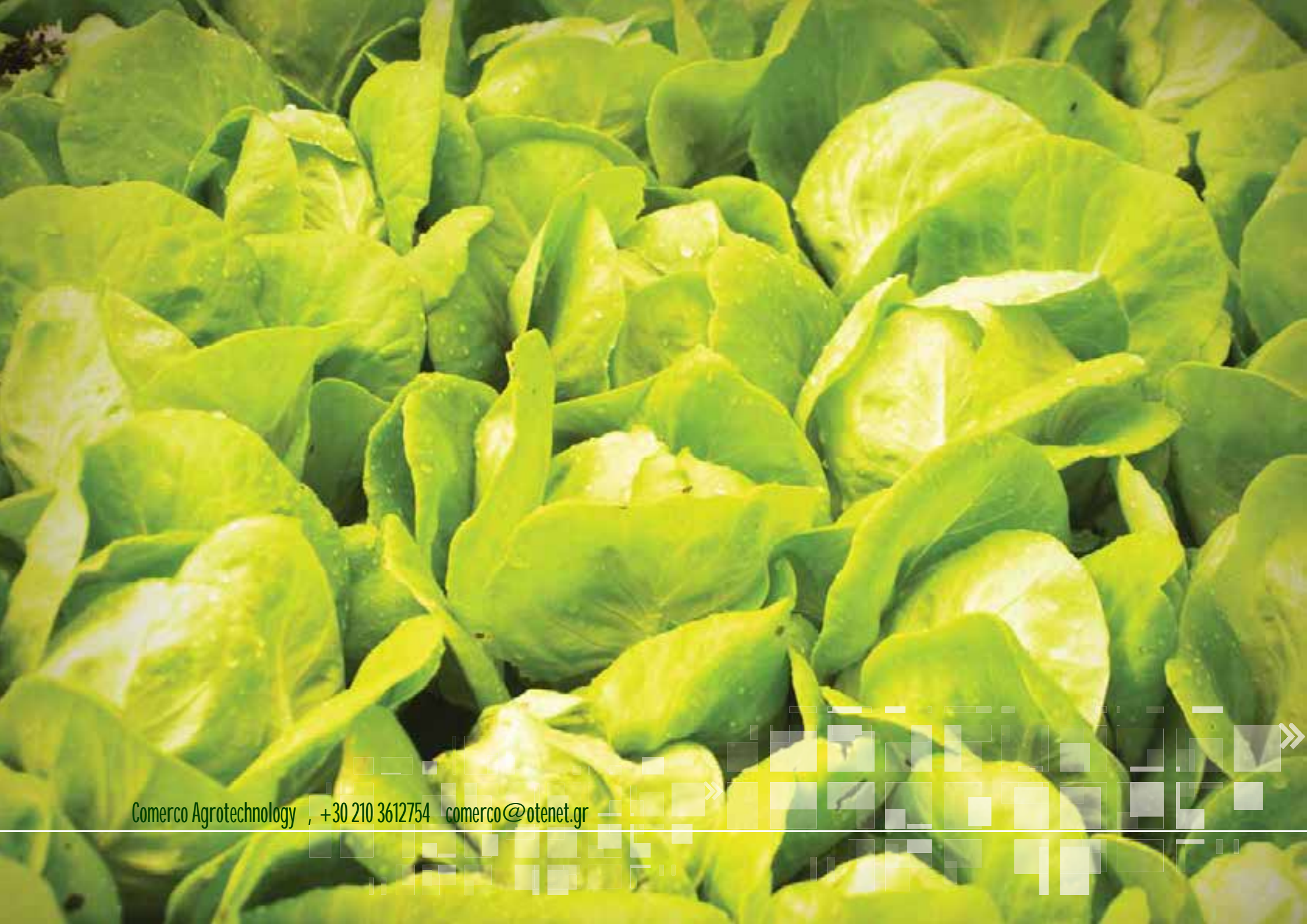




Anti-stress products

WHEN THE CROP IS HEALTHY AND VIGOROUS, THE YIELDS WILL REFLECT THIS STATE OF WELLNESS.

In the search for products that can improve crop yields and quality, we have found that the key to **progressively reducing the use of fertilizers and agricultural chemicals** lies in combining nutrients with natural substances that **stimulate the plant's own defences and thus increase overall production and improve quality.**




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Algaman


YEAST EXTRACT WITH ECKLONIA MAXIMA






MARKED ROOT SYSTEM EXPANSION

KLP



STARTER EFFECT, EVEN AT LOW TEMPERATURES

KLP AA



BOOSTS FLOWERING AND FRUIT SETTING

KLP AA

NUTRITIONAL COMPOSITION

Total organic nitrogen [N]	1%
Organic carbon [C] of biological origin	10%
Auxin	10 ppm
Cytokinin	0,028 ppm

TECHNICAL CHARACTERISTICS

S.W.	1,21 kg/lt
pH	6,5

DOSAGE AND METHODS OF USE

	FERTIGATION	FOLIAR	
FLORICULTURE	2-4 kg/ha	150-225 gr/hl	Growing season - start of flowering
LEAFY VEGETABLES	1,8 kg/ha	225-300 gr/hl	From the first true leaves to harvest 3-4 applications, every 12-15 days
FRUITING VEGETABLES	3-4 kg/ha	300-350 gr/hl	Upon transplanting and pre-flowering, post-fruit set and every 15 days
FRUIT-GROWING	3-4 kg/ha	225-300 gr/hl	From the growth stage, every 10-15 days
INDUSTRIAL CROPS	2-4 kg/ha		From the first true leaves, 2-3 treatments every 15 days



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Ascoman

YEAST EXTRACT WITH ASCOPHYLLUM NODOSUM



**PLANT GROWTH
AND YIELD**

ASCOPHYLLUM

AA



**STRENGTHENS
GROWTH ORGANS**

ASCOPHYLLUM

AA



**INCREASES
LEAF SURFACE**

ASCOPHYLLUM

AA

NUTRITIONAL COMPOSITION

Total organic nitrogen [N]	1%
Organic carbon [C] of biological origin	10%
Alginic Acid	0,3%

TECHNICAL CHARACTERISTICS

S.W.	1,20 kg/t
pH	6,5

DOSAGE AND METHODS OF USE

	FERTIGATION	FOLIAR	
FLORICULTURE	2-3 kg/ha	200-300 gr/hl	From transplanting to bud formation, every 8-10 days
LEAFY VEGETABLES	3-4 kg/ha	300-350 gr/hl	After transplanting, every 8-10 days
FRUITING VEGETABLES	3-4 kg/ha	300-350 gr/hl	From flowering to harvest, every 8-10 days
FRUIT-GROWING	4-5 kg/ha	200-300 gr/hl	From 10-15 days before flowering to fruit enlargement, every 10 days
INDUSTRIAL CROPS	3 kg/ha		During the plant growth stage



Bottle 1kg



Tank 6kg



Tank 20kg

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SD 3000

RESISTANCE BOOSTER



STIMULATES THE PLANT'S NATURAL DEFENCES (SAR AND HR)

AA

KLP



INCREASES RESPIRATION AND PHOTOSYNTHESIS, RESULTING IN GREATER PLANT GROWTH

AA

H&FA

KLP



BOOSTS FRUIT SETTING, EVEN AT LOW TEMPERATURES

H&FA

KLP



HEALING ACTION ON PLANT TISSUES (DAMAGED BY HAIL OR OTHER EVENTS)

AA

KLP



ROOT SYSTEM DEVELOPMENT AND REINFORCEMENT

AA

H&FA

KLP

TECHNICAL CHARACTERISTICS

S.W.	1,25 kg/lt
pH	6,5

DOSI E MODALITÀ D'IMPIEGO: FOLIAR

STONE AND POME FRUITS, ACTINIDIAS AND STRAWBERRIES	2-4 kg/ha	From before flowering until after fruit setting, 2-3 applications at 7-10 day intervals. When there are physical disorders: 2 applications at 3-4 day intervals when the first symptoms appear.
GRAPEVINES, OLIVE AND CITRUS TREES		
TOMATOES, PEPPERS AND AUBERGINES		
COURGETTES, CUCUMBERS, MELONS AND WATERMELONS		

SD 3000 can be combined with the most anti cryptogamic treatments used for plant protection. Test on some plants before using.



SD 3000



TEST - UNTREATED



Bottle 1kg



Tank 6kg



Tank 20kg

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Litoman Ultra

MICRONIZED CLINOPTILOLITE



Organic
Agriculture



SUPPLIES HIGH
QUANTITIES OF SILICON
(MICRONIZED
POWDER 40 μ M)



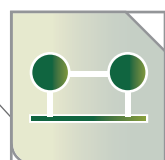
FORMS A NATURAL
BARRIER THAT ACHIEVES
MECHANICAL PROTECTION



PERSISTENT
ADHERENCE TO THE
SURFACES OF LEAVES AND
FRUITS



CHITINOLYTIC ACTION
AGAINST PATHOGENS AND
HYPHA FUNGI



MARKED ADSORPTION
THAT BLOCKS
PROPAGATION OF
CRYPTOGAMIC INFECTIONS

MINERAL COMPOSITION

MINERAL COMPOSITION	%
Clinoptilolite + Mordenite	95
Quartz + Calcite + Feldspar	5

TECHNICAL CHARACTERISTICS

S.W.	0,5 kg/lt
pH	7,6

CHEMICAL COMPOSITION

CHEMICAL COMPOSITION	%
Silicon oxide (SiO ₂)	61,0
Aluminium oxide (Al ₂ O ₃)	13,6
Calcium oxide (CaO)	4,9
Sodium oxide (Na ₂ O)	2,2
Potassium oxide (K ₂ O)	1,1
Iron oxide (Fe ₂ O ₃)	2,7
Magnesium oxide (MgO)	1,2
Titanium oxide (TiO ₂)	0,45

DOSAGE AND METHODS OF USE- FOLIAR

DUSTING TREATMENTS:	All crops Use 6-10 kg/ha of the mixture.
TREATMENT WITH TANK:	All crops Use 4-6 kg/ha of the mixture. The product is not soluble in water and thus tank recirculation must be kept running during application.

Repeat after 15-20 days.

LITOMAN ULTRA is never toxic for plants, even in the event of overdose.

COMPATIBILITY: LITOMAN ULTRA is miscible with the most commonly used herbicides and agricultural chemicals, except those that produce alkaline reactions and mineral oils. In sensitive crops, take a preliminary sample of some plants before performing more extensive application.



Bucket 5kg




Bag 20kg


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Bio Plus


MIX OF NITROGEN-FIXING BACTERIA



- 

MAKES IT POSSIBLE TO REDUCE THE SUPPLY OF NITROGEN AND PHOSPHOROUS
- 

INCREASES CROP YIELD AND QUALITY
- 

SAVES ON TECHNICAL EQUIPMENT
- 

COMPLETE NITROGENOUS NUTRIENTS IN FULL COMPLIANCE WITH NITRATE DIRECTIVES

NUTRITIONAL COMPOSITION

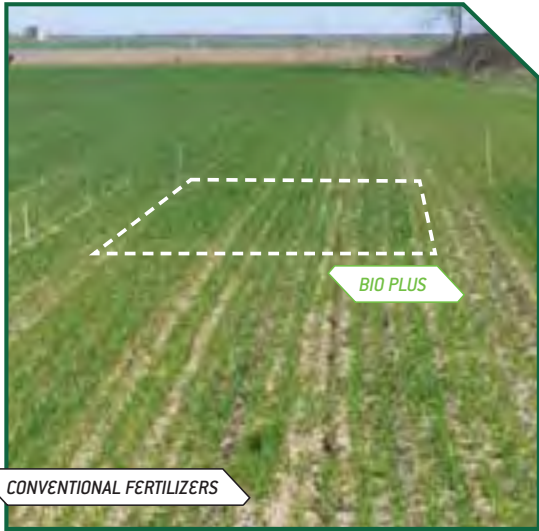
NITROGEN-FIXING BACTERIA	<ul style="list-style-type: none"> • crococcum • vinelandii
BACILLUS SPP.	

DOSAGE AND METHODS OF USE

SPRING-SUMMER CROPS	Before sowing or post-emergence for early crops	250 gr/ha
AUTUMN-WINTER CEREALS	After the winter	250 gr/ha
VEGETABLES	With organic fertilization before transplanting	250 gr/ha

WARNING

BIO PLUS should be applied at the same time nitrogen is being supplied to the crops.
BIO PLUS is compatible with all our nitrogen-based liquid fertilizers.
 When applying **BIO PLUS**, it is important to use **BIO PLUS COMBI** at a dose of 5 kg/Ha.
 Make certain that **BIO PLUS** comes into contact with both soil and roots.



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Bacillus Mix

MIX OF BENEFICIAL MICRO-ORGANISMS



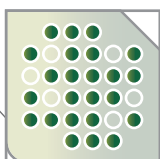
**NUTRITIONAL AND
ANTISTRESS BENEFITS
FOR ALL CROPS**



**INCREASES CROP YIELD,
QUALITY AND SHELF LIFE**



**BIOSTIMULANT ACTION
THAT BOOSTS NATURAL
DEFENCES**



**BENEFICIAL
MICRO-ORGANISMS
(BACILLUS)**

NUTRITIONAL COMPOSITION

BACILLUS SPP. (7 species)

10⁹ CFU

DOSAGE AND METHODS OF USE

CEREALS

In all stages of the plant life cycle, foliar application with sprinkler or fertigation

150-200 gr/ha

FRUITS, VEGETABLES

In all stages of the plant life cycle, foliar application with sprinkler or fertigation

400-600 gr/ha

When applied in mixture with pesticides, the recommended dose may be reduced by 30%.



BACILLUS MIX



TEST - UNTREATED

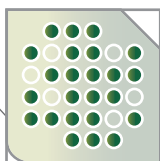


Bag 0,5kg

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Multi Action

MIX OF BENEFICIAL MICRO-ORGANISMS



SUPPLIES AND BOOSTS DEVELOPMENT OF BENEFICIAL MICRO-ORGANISMS (BACILLUS, STREPTOMYCES, SACCHAROMYCES, ETC.)

AA
H&FA
GLY



STIMULATES AND REINFORCES THE PLANT IMMUNE SYSTEM

AA
H&FA



ACCELERATES THE BREAK-DOWN OF ORGANIC MOLECULES, SUCH AS ROOT EXUDATES AND RESIDUES OF AGRICULTURAL CHEMICALS

H&FA
GLY

NUTRITIONAL COMPOSITION

BACILLUS SPP.
PSEUDOMONAS SPP.
STREPTOMYCES
SACCAROMYCES
MYCORRHIZA OF THE GLOMUS GENUS

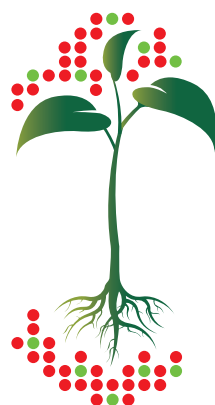
TECHNICAL CHARACTERISTICS

S.W.	1,25 kg/lt
pH	5,5

DOSAGE AND METHODS OF USE

	FERTIGATION	FOLIAR	
FLORICULTURE	2-4 kg/ha	150-225 gr/hl	Growing season - start of flowering
LEAFY VEGETABLES	2-3 kg/ha	225-300 gr/hl	From the first true leaves to harvest
FRUITING VEGETABLES	3-4 kg/ha	300-350 gr/hl	Upon transplanting and pre-flowering, post-fruit setting and every 15 days
FRUIT-GROWING	2-3 kg/ha	225-300 gr/hl	From the growth stage, every 10-15 days
INDUSTRIAL CROPS	2-4 kg/ha		From the first true leaves, 2-3 treatments every 15 days

COMPATIBILITY: MULTI ACTION is miscible with the most commonly used herbicides and agricultural chemicals. Cannot be used with products that produce alkaline reactions, with copper- or sulphur-based products or with mineral oils. In sensitive crops, take a preliminary sample of some plants before performing more extensive application.



Predominance of **DEGENERATIVE MICROORGANISMS** • on the surface of leaves and fruits:
MORE DISEASE PRONE, REDUCED SHELF LIFE

- High surface exploitation
 - Low organic carbon availability
 - High use of chemicals
- Conditions detrimental to crop development and which promote the dominance of **DEGENERATIVE MICROORGANISMS** •



Predominance of **BENEFICIAL MICRO-ORGANISMS** • on the surface of leaves and fruits:
FEWER DISEASES, GREATER SHELF LIFE

- Predominance of **BENEFICIAL MICRO-ORGANISMS** • boosts:
- Plant growth
 - Plant wellness
 - Crop yields



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Micro and Mesoelements

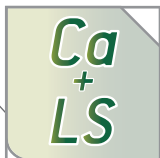
THE COMERCO LINE OF MICRO AND MESOELEMENTS HAS BEEN CREATED TO PROVIDE THE MOST ATTENTIVE, MOST DEMANDING OPERATORS WITH A RANGE OF HIGHLY VERSATILE, EFFECTIVE PRODUCTS THAT CAN REDUCE AND OVERCOME DISEASES DUE TO MICRO NUTRIENT DEFICIENCIES.

The combination with **Ammonium lignosulfonate (ALS)** and **ethanolamine** facilitates plant absorption of micro and mesoelements.

The special formulation reduces the surface tension in the mixture by increasing adhesiveness and transport, **facilitating element translocation.**

Calcioman 15 Complex

CALCIUM COMPLEXED WITH LS



SUPPLIES CALCIUM (CA) COMPLEXED WITH LIGNOSULFONIC ACID (LS)

Ca



CALCIUM TRANSPORTED AND PROTECTED BY THE COMPLEXING AGENT

Ca



CURES AND PREVENTS CALCIUM DEFICIENCY-RELATED DISEASES

Ca



HAS A POSITIVE EFFECT ON PLANT TISSUE WATER CONTENT

Ca



BOOTS FRUIT SHELF LIFE AND REDUCES THE RISK OF POST-HARVEST SPOILAGE

Ca

NUTRITIONAL COMPOSITION

	%
Calcium oxide [CaO]	15
Calcium oxide [CaO] in complexed form	12
Complexing agent	LS

TECHNICAL CHARACTERISTICS

S.W.	1,47 kg/l
E.C. (sol. 1%)	0,75 mS/cm
pH	4,5

DOSAGE AND METHODS OF USE - FOLIAR

GRAPEVINES	From bunch closure	300-500 gr/hl 3-5 kg/ha
STONE FRUITS	From fruit setting until veraison	
POME FRUITS	From time of first drop on	3 applications at 10-15 day intervals
FRUITING VEGETABLES	From fruit setting of first truss	
LEAFY VEGETABLES	After plant has 4 true leaves	

DOSAGE AND METHODS OF USE - FERTIGATION

ALL CROPS	From flowering to ripening	25-30 kg/ha per application
-----------	----------------------------	-----------------------------



Bottle 1kg



Tank 6kg



Tank 25kg

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Zincoman 14 Complex

ZINC COMPLEXED WITH LS

NUTRITIONAL COMPOSITION		TECHNICAL CHARACTERISTICS	
	%		
Total zinc (Zn)	14	S.W.	1,42 kg/t
Zinc (Zn) in complexed form	11,2	E.C. (sol. 1%)	0,58 mS/cm
Complexing agent	LS	pH	4,3

DOSAGE AND METHODS OF USE - FOLIAR

GRAPEVINES	Pre-flowering and fruit enlargement	2-3 kg/ha
POME FRUITS AND STONE FRUITS	Pre-flowering and after harvest, before the leaves fall	
STRAWBERRIES AND VEGETABLES	4-6 leaf stage	
POTATOES	1 week after emergence	3-4 kg/ha
MAIZE	4-6 leaf stage	
STRAW CEREALS	Onset of germination	

DOSAGE AND METHODS OF USE - FERTIGATION

ALL CROPS	Initial stages	3-7 kg/ha
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SUPPLIES ZINC (ZN) COMPLEXED WITH LIGNOSULFONIC ACID (LS)

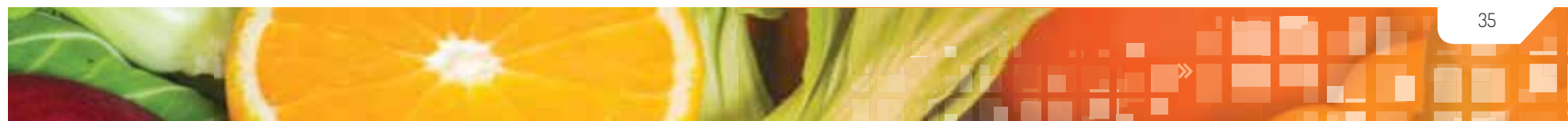
ZINC TRANSPORTED AND PROTECTED BY THE COMPLEXING AGENT

CURES AND PREVENTS ZINC MICRODEFICIENCIES

BOOSTS ROOT GROWTH AND DEVELOPMENT, EVEN AT LOW TEMPERATURES

INCREASES RESISTANCE TO COLD WEATHER, A PARTICULARLY IMPORTANT FACTOR FOR EARLY SOWING AND TRANSPLANTS

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Cuproman 15 Complex

COPPER COMPLEXED WITH LS

Cu
+
LS

SUPPLIES COPPER
(Cu) COMPLEXED WITH
LIGNOSULFONIC ACID (LS)

Cu

Cu

COPPER TRANSPORTED
AND PROTECTED BY THE
COMPLEXING AGENT

Cu



CURES AND
PREVENTS COPPER
MICRODEFICIENCIES

Cu



PREVENTS THE
FORMATION OF
CHLOROSIS AND NECROSIS
OF TIP LEAVES

Cu



BALANCES ANY
EXCESS NITROGENOUS
FERTILIZATION

Cu

NUTRITIONAL COMPOSITION

	%
Copper (Cu)	12,5
Copper (Cu) in complexed form	10
Complexing agent	LS

TECHNICAL CHARACTERISTICS

S.W.	1,45 kg/lt
E.C. (sol. 1%)	0,48 mS/cm
pH	3,7

DOSAGE AND METHODS OF USE - FOLIAR (CONCENTRAZIONE MAX. 0,5%)

GRAPEVINES AND OLIVE TREES	During bud opening or post-harvest	2-3 kg/ha
ORCHARDS	During bud opening or post-harvest	2-3 kg/ha
CEREALS AND LEGUMES	1 application at 4-6 leaf stage	1,5-3 kg/ha

DOSAGE AND METHODS OF USE - FERTIGATION

ALL CROPS	3-5 kg/ha
-----------	-----------



COPPER DEFICIENCIES



Bottle 1kg



Tank 6kg

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Ferroman

COMPLEXED IRON



Fe

Fe

SUPPLIES IRON (FE) TRANSPORTED AND PROTECTED BY HUMIC ACIDS AND PLANT AMINO ACIDS

Fe

CURES AND PREVENTS IRON DEFICIENCIES AND REDUCES THE RISK OF CHLOROSIS

Fe

THANKS TO THE ACTIVITY OF FERRIC CHELATE REDUCTASE ENZYME, INCREASES THE QUANTITY OF THE IRON ABSORBED

Fe

BOOSTS ROOT SYSTEM PROLIFERATION

NUTRITIONAL COMPOSITION			TECHNICAL CHARACTERISTICS	
Iron (Fe)	6		S.W.	1,18 kg/lt
Complexing agent	Humic acids and plant amino acids		pH	4

DOSAGE AND METHODS OF USE - FERTIGATION	
VEGETABLES	10-15 kg/ha
FRUITS, CITRUS FRUITS, OLIVES	15-25 kg/ha
FLOWERS AND IN THE NURSERY	5-10 kg/ha

In the most diff cult soils, and for the most demanding crops, it is best to repeat treatment with **FERROMAN** every 15-25 days starting from resumption of growth (or, in the case of vegetables, after transplanting). When used in foliar application, **FERROMAN** must not be mixed with products containing copper, sulphur or dodine, or with white oils and oil-based insecticides.




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Boro ET


BORON ETHANOLAMINE






SUPPLIES BORON (B) TRANSPORTED AND COMPLEXED BY ETHANOLAMINE

B




CURES AND PREVENTS BORON DEFICIENCIES

B



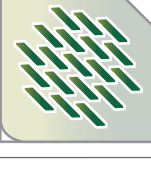
INCREASES POLLEN GERMINABILITY, THUS BOOSTING FRUIT SETTING

B




ENHANCES SUGAR SYNTHESIS, AUXIN

B



INCREASES CELL WALL ELASTICITY

B



SYNERGISES AND INCREASES CALCIUM ABSORPTION

B

NUTRITIONAL COMPOSITION		TECHNICAL CHARACTERISTICS	
Boron [B]	11	S.W.	1,35 kg/lt
		pH	7-8

DOSAGE AND METHODS OF USE - FOLIAR		
VEGETABLES	Pre-fowering	150-200 gr/hl
FRUITS	Pre-fowering and, subsequently, post-fruit setting	2 kg/ha
GRAPEVINES	3 fractionalized applications (at cluster separation, f ower separation and fruit setting)	1,5 kg/ha
OLIVE TREES	Three consecutive applications around the time of fowering	2 kg/ha
SUGAR BEETS	Two treatments between emergence of 4-6 true leaves and pre-closing of the rows	3-4 kg/ha
SUNFLOWERS	2 applications	4-6 kg/ha
ALFALFA	When the leaves are adequately developed	2-4 kg/ha

DOSAGE AND METHODS OF USE - FERTIGATION

During the same stages, at doses of 3-5 kg/ha

WARNING

Foliar applications are to be performed at the coolest hours of the day.
Do not mix with compounds presenting acid reactions.





Bottle 1kg

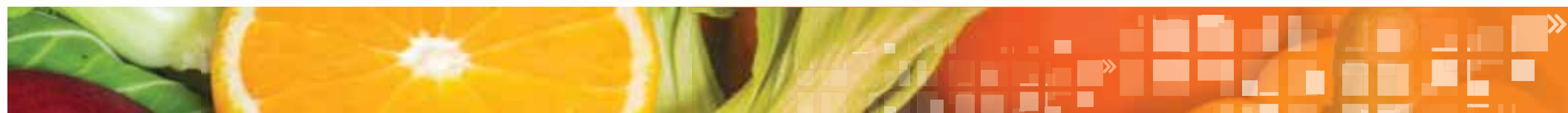


Tank 6kg



Tank 25kg

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Microfert Combi

TRACE ELEMENT MIXTURE



PROVIDES A BALANCED SUPPLY OF ALL TRACE ELEMENTS IMPORTANT FOR CROP DEVELOPMENT

T.E.



CURES AND PREVENTS ALL MAJOR MICRO-DEFICIENCIES

T.E.



FACILITATES RAPID RENEWAL OF ALL LEAF SYSTEMS

Mg

Fe

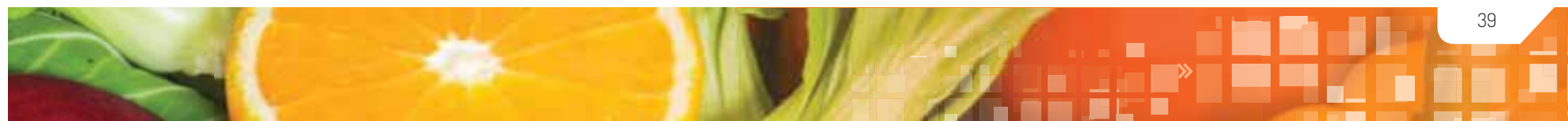
NUTRITIONAL COMPOSITION	%
Magnesium oxide [MgO]	9
Manganese [Mn]	6
Boron [B]	0,9
Zinc [Zn]	3
Copper [Cu]	1
Iron [Fe]	4

TECHNICAL CHARACTERISTICS	
S.W.	1,20 kg/t
pH	6,5

DOSAGE AND METHODS OF USE - FOLIAR		
POTATOES	Spray in 2-3 applications at 2-4 week intervals	2-3 kg/ha
MAIZE		3-5 kg/ha
APPLE TREES, PEAR TREES		4-6 kg/ha
GRAPEVINES		3-5 kg/ha
For greater efficiency, use the product in conjunction with ORGAN ACTIVE at a dose of 3 kg/ha		

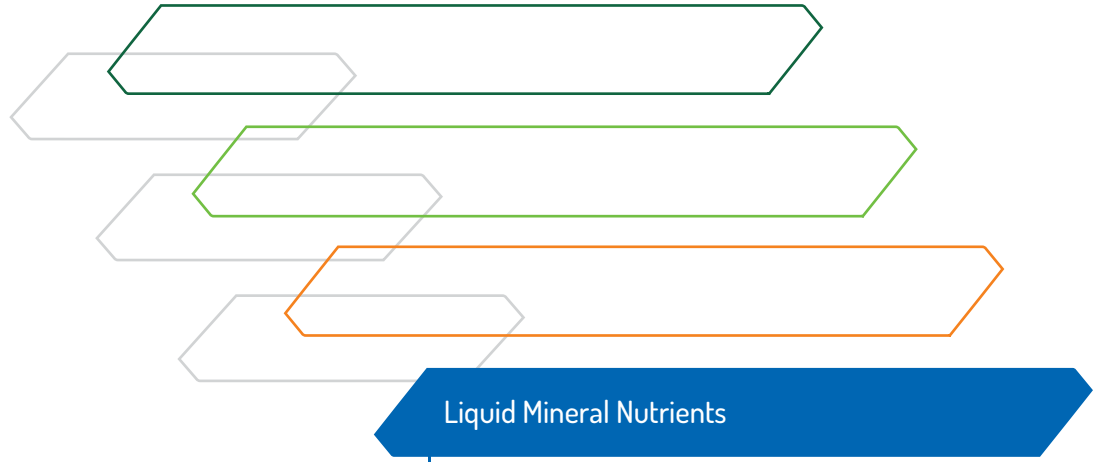


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Liquid Mineral Nutrients

LIQUID FERTILIZERS PROVIDE MANAGEMENT AND AGRONOMICS ADVANTAGES OVER CORRESPONDING GRANULAR AND WATER-SOLUBLE PRODUCTS.

Plant nutrition starts from the basic elements (Nitrogen, Phosphorus and Potassium) and secondary elements (Calcium, Magnesium and Sulphur). A balanced supply, dosed throughout the plant life cycle or targeting the most important stages, leads to high **qualitative-quantitative standards**.
Comerco is a greek leader on the liquid fertilizer market . The high quality of raw materials and finished products guarantees excellent agronomic results **and, thanks to the liquid formulations, produces savings in terms of units of fertilizer used, since liquid fertilizers have greater per-unit performance than granular fertilizers.**

Cama-104

CALCIUM NITRATE WITH MAGNESIUM



**HIGH ABSORPTION
EVEN AT LOW
TEMPERATURES**

Ca

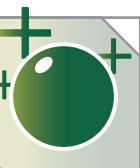
Mg



**RAPID TRANSPORT OF
NUTRIENT ELEMENTS**

Ca

Mg



**INCREASES SHELF LIFE
AND FRUIT QUALITY**

Ca

Mg



**RAPID, LUSH PLANT
GROWTH AND LEAF
GREENING**

Ca

Mg

NUTRITIONAL COMPOSITION

	%
Total nitrogen (N)	8
of which nitric nitrogen (N)	7
Ammoniacal nitrogen (N)	1
Calcium oxide (CaO)	10
Magnesium oxide (MgO)	4

TECHNICAL CHARACTERISTICS

S.W.	1,45 kg/lt
pH	6,5

DOSAGE AND METHODS OF USE - FERTIGATION

TREES	At resumption of growth and at the onset of fruit enlargement	30-35 kg/ha
VEGETABLES		15-20 kg/ha

DOSAGE AND METHODS OF USE - FOLIAR

GRAPEVINES, DESSERT GRAPES	From grape enlargement to veraison	250-300 gr/hl
STONE FRUITS	From the nut, 3 treatments, every 15 days	350-400 gr/hl
GREENHOUSE CROPS	During the initial phases and at onset of symptoms	250-300 gr/hl

SPECIFIC EFFECTS

Calcium nitrate and magnesium nitrate solutions

Readily absorbable Calcium and Magnesium acting in synergy

Cures and prevents physiological, leaf and tip drying, streaking on eggplant and peppers, spoilage

N.B.: UNITS OF LIQUID FERTILIZER HAVE A HIGHER PER UNIT YIELD THAN GRANULAR FERTILIZERS



Tank 25kg



IBC 1300kg

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Supreme Ca

CALCIUM THIOSULPHATE



SUPPLIES HIGH AMOUNTS OF SULPHUR IN THE THIOSULPHATE ION FORM



ACIDIFIES THE SOIL



RELEASES AND BOOSTS ABSORPTION OF NUTRIENT ELEMENTS



NO NITROGEN

NUTRITIONAL COMPOSITION	%
Calcium oxide [CaO]	8,4
Sulphur trioxide [SO ₃]	25
Thiosulphate content [S ₂ O ₃]	17

TECHNICAL CHARACTERISTICS	
S.W.	1,25 kg/lit
pH	7-8

DOSAGE AND METHODS OF USE - FERTIGATION	
TOMATOES FOR INDUSTRY	20-30 kg/ha
DESSERT GRAPES	30-40 kg/ha
ACTINIDIAS	30-40 kg/ha
LEAFY VEGETABLES	5-15 kg/ha
FRUITING VEGETABLES	20-30 kg/ha
ORCHARDS	20-30 kg/ha

- SPECIFIC EFFECTS**
- Calcium transported by THIOSULPHATE IONS
 - Calcium easily absorbed by the root system, even in soils with extreme pH
 - No nitrogen to compete with the calcium for absorption by the root system
 - Boosts shelf life and uniform fruit ripening
 - N.B.: UNITS OF LIQUID FERTILIZER HAVE A HIGHER PER UNIT YIELD THAN GRANULAR FERTILIZERS**

WARNING

The product is not corrosive and can be set in containers made of steel, aluminium and any other container used to hold fertilizers.

When used with equipment having parts made of tin, copper, bronze and alloys of these elements, wash thoroughly after use.

Repeated applications at the recommended doses, 7 to 15 days apart, starting from the onset of fruit enlargement and throughout the ripening phase.

On leafy vegetables, apply in sprinkler fertigation at a maximum concentration of 500 gr/100 lt of water.



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Nitrogenous fertilizers

SUPPLY OF NITROGEN UNDER DIFFERENT FORMS AND SCHEDULED RELEASE

NUTRIENT COMPOSITION

PRODUCT	TOTAL NITROGEN	NITRIC NITROGEN	AMMONIACAL NITROGEN	UREIC NITROGEN	UREA FORMALDEHYDE NITROGEN	SULPHUR (SO ₃)	COPPER (CU) CHELATE EDTA	
AZODRIP	30	7,5	7,5	15				Triple nitrogen bond
CEREAL N-PLUS	27,5			11,5	16		0,21	Slow-release and leaf adherence
CEREAL S	28	7	7	14		6,5		Increased proteins

N.B.: UNITS OF LIQUID FERTILIZER HAVE A HIGHER PER UNIT YIELD THAN GRANULAR FERTILIZERS

TECHNICAL CHARACTERISTICS

PRODUCT	APPLICATION	MEANS OF USE	pH	S.W. (KG/LT.)	PACKAGES AVAILABLE
AZODRIP	Fertigation	30-50 kg/ha	7,0	1,3	6-25-1300 kg
CEREAL N-PLUS	Foliar	5-15 kg/ha	7,0-8,0	1,32	25-1300 kg
CEREAL S	Foliar	5-10 kg/ha	7,0-8,0	1,3	25-1300 kg

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Phosphate fertilizers

PRODUCTS WITH A STARTER EFFECT, SUPPLYING PHOSPHOROUS WITH ACIDIC PH FOR DIFFERENT MODES OF USE:
ACIDIFICATION, FERTIGATION, HOSE CLEANING

NUTRITIONAL COMPOSITION

PRODUCT	PHOSPHOROUS (P ₂ O ₅)	SULPHUR (SO ₃)	
FOSFOMAN 75	54		Even active at low temperatures
ACIMIX PS	30	20	Double acidifying action

N.B.: UNITS OF LIQUID FERTILIZER HAVE A HIGHER PER UNIT YIELD THAN GRANULAR FERTILIZERS

TECHNICAL CHARACTERISTICS

PRODUCT	APPLICATION	MEANS OF USE	pH	S.W. (KG/LT.)	PACKAGES AVAILABLE
FOSFOMAN 75	Fertigation	30-60 kg/ha	<1	1,60	30-1500 kg
ACIMIX PS	Fertigation	30-60 kg/ha	<1	1,60	30-1500 kg



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Kalis K30⁺

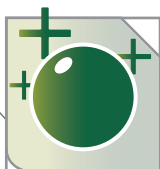
HIGH POTASSIUM CONTENT WITH EDTA



CHLORIDE-FREE
SOLUTION WITH HIGH
POTASSIUM CONTENT



EASY TO USE BOTH
ON LEAVES AND IN
FERTIGATION



BOOSTS HARVEST
QUALITY AND FRUIT
SHELF LIFE



INCREASES PLANT
SUGAR SYNTHESIS

COMPOSITION

Potassium Oxide (K₂O) low in chlorine

%

30

Also contains 3% EDTA

TECHNICAL CHARACTERISTICS

S.W. 1,45 kg/lt

pH 9,5

DOSAGE AND METHODS OF USE - FERTIGATION

POME FRUITS, STONE FRUITS, GRAPEVINES, OLIVE TREES	From full-formed fruit to end of ripening	100-120 kg/ha
ACTINIDIAS		100-140 kg/ha
CITRUS FRUITS, TREES AND NURSERY	Before dormancy	120-140 kg/ha
VEGETABLES	During the final ripening stage	10-12 kg/1000 m ²
ORNAMENTAL PLANTS, FLORICULTURE, LAWNS	During growth	10-12 kg/1000 m ²

Apply the indicated dosage in 2-3 applications

When water is hard, test compatibility before use

DOSAGE AND METHODS OF USE - FOLIAR

Apply during the coolest hours of the day, at a dosage of 200-300 g/hl



Tank 25kg



IBC 1300kg

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Organic
Agriculture

Summary table

CROP	PLANT LIFE CYCLE STAGE - OBJECTIVE	POST EMERGENCE HERBICIDES	DEFENSIVE TREATMENTS
CEREALS AND INDUSTRIAL CROPS	ROOTING	ALGAMAN	
		ZINCOMAN COMPLEX	
	CARRIER, ANTI-STRESS EFFECT		ORGAN STAR

CROP	PLANT LIFE CYCLE STAGE - OBJECTIVE	TRANSPLANTING	ROOTING	VEGETATIVE GROWTH	FLOWERING, FRUIT SETTING	FRUIT DEVELOPMENT	RIPENING
VEGETABLES	STARTER EFFECT, ROOTING	ORGAN STAR					
	ROOTING		ALGAMAN ZINCOMAN COMPLEX				
	ROOT BIOSTIMULANT			ORGAN ACTIVE		ORGAN ACTIVE	
	POLLEN FERTILITY				BORO ET		
	EARLY FRUIT DEVELOPMENT				ALGAMAN		
	CROP QUALITY			VEGETAL βETAPHOS	CALCIOMAN COMPLEX	CALCIOMAN COMPLEX	CALCIOMAN COMPLEX
	UNIFORM COLOURING						MATUR PLUS
	ANTI STRESS (COLD, HEAT, DROUGHT)			VEGETAL B60	VEGETAL B60	VEGETAL B60	VEGETAL B60
	EFFICIENT USE OF WATER RESOURCES			PG1 FLUID	PG1 FLUID	PG1 FLUID	PG1 FLUID

CROP	PLANT LIFE CYCLE STAGE - OBJECTIVE	RESUMED VEGETATIVE GROWTH	GERMINATION	VEGETATIVE GROWTH	FLOWERING, FRUIT SETTING	FRUIT DEVELOPMENT	RIPENING
FRUITS	IRON CHELATE EFFECTIVENESS	ORGAN ACTIVE					
	UNIFORM DEVELOPMENT		ALGAMAN ZINCOMAN COMPLEX				
	ROOT BIOSTIMULANT			ORGAN ACTIVE		ORGAN ACTIVE	
	POLLEN FERTILITY				BORO ET		
	EARLY FRUIT DEVELOPMENT				ALGAMAN		
	CROP QUALITY		VEGETAL βETAPHOS	VEGETAL βETAPHOS	CALCIOMAN COMPLEX	CALCIOMAN COMPLEX	CALCIOMAN COMPLEX
	UNIFORM COLOURING						MATUR PLUS
	ANTI STRESS (COLD, HEAT, DROUGHT)		VEGETAL B60	VEGETAL B60	VEGETAL B60	VEGETAL B60	VEGETAL B60
	EFFICIENT USE OF WATER RESOURCES		PG1 FLUID	PG1 FLUID	PG1 FLUID	PG1 FLUID	PG1 FLUID

ORGAN STAR
ORGAN STAR
ORGANIC
ORGAN STAR
ALGAMAN
BETABIO FULL
BORO ET
ALGAMAN
VEGETAL βETAPHOS VEGETAL B60
MATUR PLUS
VEGETAL B60
PG1 FLUID
ORGANIC
BETABIO ACTIVE
ORGAN STAR
BETABIO FULL
BORO ET
ALGAMAN
VEGETAL βETAPHOS VEGETAL B60
MATUR PLUS
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