



GREENHAS
G R O U P

SPECIALISTS IN PLANT NUTRITION

**PRODUCTS CATALOGUE
EUROPE 2024**



LEGENDA



Product suitable for **foliar** application



Product suitable for **fertigation**



Product suitable for **seed dressing**



















Product allowed in **organic farming** according to the European Community Regulations

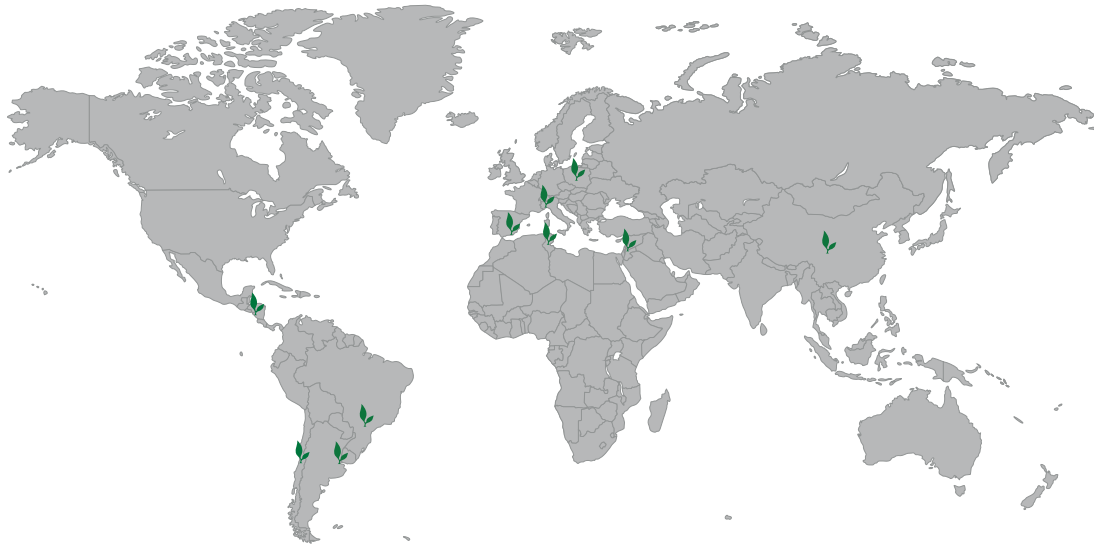


Product obtained through **HPP** process

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GREENHAS GROUP IN THE WORLD



Over time, we have built a strong group, with a well-rooted network of distribution and strategic partners. This result has been obtained by choosing the best models based on the characteristics of the different Countries and geographic areas.

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proud member



THE COMPANY

WE FEED THE PLANET BY PROMOTING A SUSTAINABLE AND ETHICAL AGRICULTURE



Green Has Italia was founded in 1985 as a company specialized in the production of complete systems for soilless crops and then moved towards the research, production and commercialization of fertilizers and biostimulants for the nutrition of agricultural crops.

Our wide range of fertilizers both for foliar spraying and fertigation proudly boast the Made in Italy mark as a distinctive sign that reinforces the perception of quality.

In 2021 the company renewed its image as an international reality and took on the brand name Greenhas Group, consolidating as a reference point for the world of professional agriculture.

We are actively involved in studying products that can contribute to facing the most pressing issues, from soil depletion to a better use of water and nutrients, always remembering the concepts of sustainable agriculture and circular economy.

Such concepts are strongly supported by the European Biostimulants Industry Council (EBIC), association of which we are proud to be founding members. EBIC promotes the role of biostimulants as products fundamental for obtaining the best expression of the genetic properties of the crops.



OUR VISION

"We want to anticipate the requirements of agriculture, giving strength to the plants and fertility to the soil, while fully respecting the environment."



OUR MISSION

"Innovative by vocation, we work hard every day to offer farmers products of excellent quality and guaranteed efficiency, thanks to our constant and intensive activities of research and development."

QUALITY

A GUIDELINE FOR BUSINESS CHOICES

The continuous control and improvement of the quality of our products is one of the most important goals of Greenhas Group.

All raw materials we use are analysed in our chemical laboratory when they enter into the production process and likewise, all lots of the finished formulations undergo checks. The intermediary production phases are also monitored and controlled in order to identify and immediately eliminate possible anomalies. To guarantee high levels of quality, in addition to using raw materials of high purity and quality, the production process is planned with the application of modern techniques and technologies.



GREEN HAS ITALIA has certified its quality management system in accordance with standard UNI EN ISO 9001:2015 through a process approach and through constant improvement in ensuring customer satisfaction.



The quality label Assofertilizzanti (National Fertilizer Manufacturers' Association) allows customers to identify the companies which have made quality their priority in the production of fertilizers.





GREENHAS RESEARCH CENTER



THE MOST INNOVATIVE PRODUCTS FROM OUR RESEARCH

Greenhas is aware that it is necessary to give back the hope of a livable world to future generations and for this reason over years it has pursued values and principles that are leading to the creation of fertilizers for sustainable and ethical agriculture.

For the research and development of new formulations, we built the Research Center: a dedicated location, equipped with cutting-edge instruments and technologies among the most advanced of the sector in Italy.

The structure, inspired by the plant world, has three research units and an experimental station:

- **Microbiology Unit:** for the isolation, selection and stabilization of microorganisms naturally present in the soil to be used in our biostimulants for the achievement of sustainable and quality productions.
- **Plant Chemistry Unit:** for the conception, formulation and characterization of innovative products.
- **Plant Physiology Unit:** to study the changes that our products induce on agricultural crops at a physiological, biochemical and transcriptomic level, helping them to produce more with less resources.
- **Experimental Station:** to select the most agronomically effective products thanks to tests conducted in the growthchamber, greenhouse and demo field.

The Research Center concretely represents our commitment in the Research: since the beginning it is the heart of the Company and it has developed precious collaborations with Universities and Research Institutes over years.

THE DEVELOPMENT OF A NEW PRODUCT

WE ARE OUR OWN HARSHTEST CRITIC

That is why we have defined a hyperselective development protocol called HPP (HIGH PERFORMANCE PROCESS)



The development process for a new product is regulated by an internal protocol called HPP (High Performance Process). Before being put on the market, our formulations undergo a careful and rigorous selection which runs through 4 principal phases:



PHASE 1 - Conception and formulation of prototypes for specific uses: The necessity of creating specialized products derives from the needs of modern-day agriculture. The prototypes are studied and selected based on their chemical stability in stress tests carried out in the laboratory.



PHASE 3 - Chemical and biological characterization of the most stable and efficient formulation: We identify the active molecules and mode of action of the formulation through studies of biochemistry, genomics and metabolomics in collaboration with national and international scientific partners.



PHASE 2 - Selection based on agronomic efficiency: We carry out agronomic tests in growth chambers, greenhouses and open fields, under standard conditions and through the induction of adverse conditions (water, salt and heat stresses).



PHASE 4 - Extended agronomic validation: We carry out efficiency tests on different agricultural crops and in different cultivation areas, in collaboration with officially recognized test facilities, technicians and leading companies of the sector.





HYDROPONIC FARMING

OUR HISTORY, OUR TOMORROW

Green Has Italia was founded in 1985 as a company specialized in the production of complete systems for soilless crops. The acronym HAS (Hydroculture in Active Substrate), still present in the name of the Group, is evidence of a close connection to our origins and highlights our expertise in the field.

The offer of products for hydroponic agriculture has evolved together with the company, passing from simple water-soluble salts to complex products with high technological value. The acquired know-how and the high quality of the products make Greenhas Group a highly qualified company for the nutrition of plants in soilless cultivations, both in closed and open cycles.

CALCIUM SPECIALISTS

WE BELIEVE IN PRODUCING QUALITY FRUIT AND VEGETABLES WITH A LONGER SHELF LIFE

To sustainably produce enough food for an ever-growing world population in an age of climate change is a relevant topic for everyone, and especially for us, who play an active role in the world of agriculture.

We strongly believe in rationalizing and optimizing the use of fertilizers, and to simultaneously use effective strategies to increase production and prolong the shelf life of food products. In the light of this, calcium is extremely important as an element with a primary structural function, having a direct influence on the strength of the plant, on the preservation of the fruits after harvest and on the plant's ability to defend itself against environmental threats. It also carries out an important function as chemical messenger inside the plant cells, activating reactions to environmental stresses.

Our know-how and the manifold resources devoted to the research and development of innovative formulations for the optimal efficiency of calcium nutrition, gave rise to a unique range of products, suitable for every crop in every vegetative phase.





ORGANIC FARMING

OUR LINE OF PRODUCTS SUPPORTING VALUABLE CHOICES IN AGRICULTURE

The strict selection of raw materials, the accurate checks on production processes and agronomic tests that verify their effectiveness ensure that the products included in the organic line of Greenhas Group represent a strong reference point for a complete and reliable nutrition, according to the organic farming protocols.



The formulations that display the BIO symbol are allowed in organic farming according to the regulations of the European Community.



Furthermore, to strengthen our commitment towards the world of organic farming, we have begun a certification process for some of our formulations with the support of Ecocert, a group that has helped companies to implement and promote sustainable practices for over 30 years thanks to its certification, consultancy and education services. The certification of the supplies implies a thorough inspection process with audit assessments in production facilities and a detailed review of each product.

THE MITIGATION OF CLIMATE CHANGE EFFECTS

A CLEAR AND COMPELLING MISSION FOR GREENHAS GROUP

The economic results of agriculture directly depend on meteorological conditions. That is why each day agriculture needs to counterbalance the negative effects of climate change.

For this reason, the most important organizations that deal with agricultural issues have pointed out that adaptive solutions to climate change, in the short and medium term, should include:

- Improving nutrients and water use efficiency;
- Managing the soil with care, increasing in particular the supply of organic matter to store humidity, improve biodiversity and preserve fertility.

Thanks to the activities conducted in the Research Center, Greenhas Group has been able to invest important resources addressed to the selection of versatile and efficient formulations to mitigate the negative effects of climate change. From biostimulants with bioactive molecules of plant origin to those containing selected microorganisms, the product range of Greenhas Group is constantly being enhanced to face the greatest agronomical difficulties.

With these aims, our formulations are mainly addressed to:

- Increase the WUE (Water Use Efficiency) and the NUE (Nutrient Use Efficiency) of the crops
- Better protect the plant during high temperature period
- Conserve the organic matter of the soil, acting also on the quality of microbioma

All these special fertilizers are developed following the internal HPP protocol, including the full field validation test carried out by external independent experimental centers.





BIOSTIMULANTS & SPECIAL FERTILIZERS

TARGETED PERFORMANCE

Innovative fertilizers with high technological value resulting from the research of Greenhas Group, these products have been developed to support the growth of the plant in adversity or to perform specific functions.



ERANTHIS HIGHLIGHTS

1
Plant cells protection and better water use efficiency

2
High photosynthetic activity

3
Yield improvement even under difficult conditions

ERANTHIS

THE BEST YIELD EVEN UNDER DIFFICULT GROWING CONDITIONS



EU BIOSTIMULANT FOR THE ENHANCEMENT OF TOLERANCE OF DROUGHT STRESS

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165 Inspected by ECOCERT F – 32600

ERANTHIS is a biostimulant composed of a balanced blend of two brown algae extracts and selected yeasts with an organic matrices of plant origin. The formula was created to help crops maintaining full vegetative functionality and efficient photosynthetic capacity even in the most difficult growth conditions like drought and high light radiation.

The application of **ERANTHIS** helps plants to express their best yield potential by increasing cellular protection and improving water use efficiency (WUE).

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.20 g/ml
pH (1% aqueous solution p/p): 5.5 ± 0.5 u. pH
Electrical conductivity (aqueous solution 1 g/l): 250 µS/cm

APPLICATION RATES

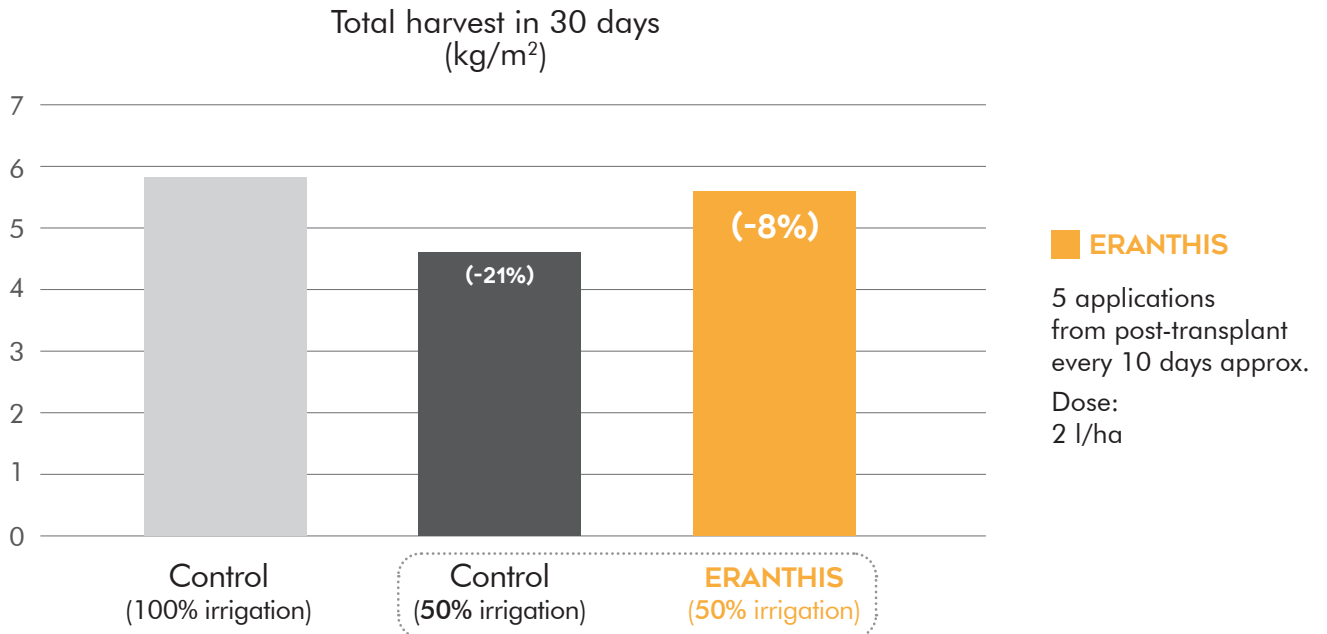
CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR		
WOODY PERENNIALS			
FRUIT TREES AND WALNUT	2 l/ha*	2-4 applications at 2 l/ha from flowering for preventing abiotic stresses	
GRAPES		4 applications at 2 l/ha from pre-flowering to veraison for preventing abiotic stresses	
VEGETABLES, ORNAMENTALS AND AROMATIC AND MEDICINAL PLANTS			
HORTICULTURE IN OPEN FIELD	2 l/ha*	4 applications at 2 l/ha from vegetative development throughout the whole crop cycle for preventing abiotic stresses	
GREENHOUSE HORTICULTURE	200 ml/hl	Throughout the whole crop cycle for preventing abiotic stresses	

* use 2.5 l/ha to mitigate already visible stress situations.
The volumes of water have to be managed according to common practices on crops.
We suggest to apply at least once in prevention before water stress occur.

EVIDENCE

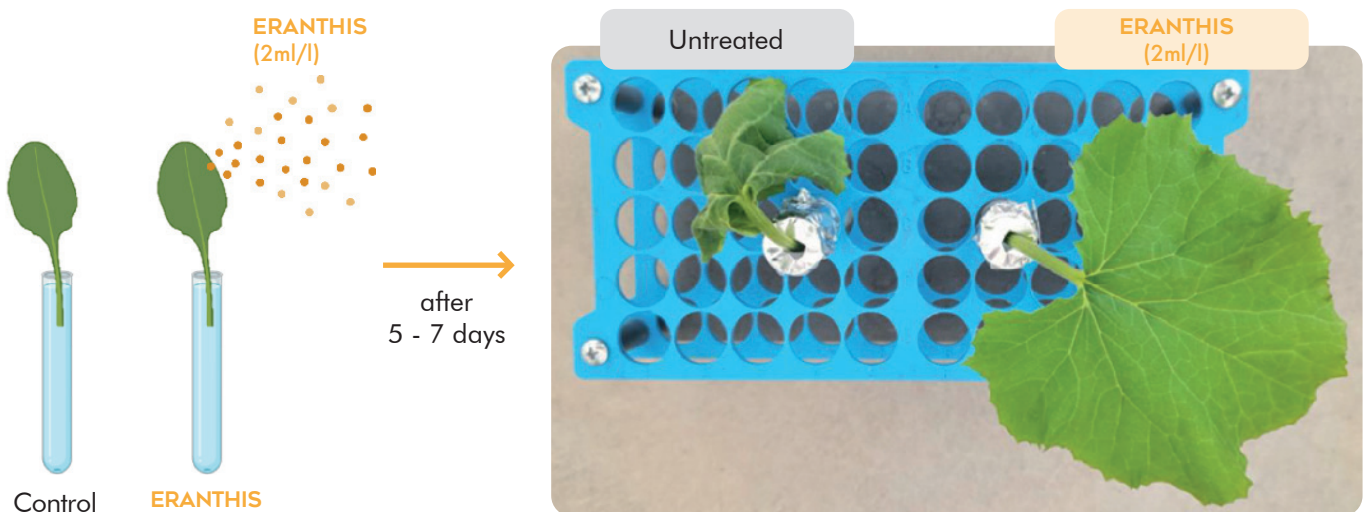
ERANTHIS: BETTER WATER USE EFFICIENCY

GREENHOUSE TOMATO – SOUTHERN ITALY (BARI) – HPP PROTOCOL



ERANTHIS: BIO-ESSAY FOR CELLULAR TURGIDITY

COURGETTE – RESEARCH CENTER GREENHAS GROUP - CANALE – HPP PROTOCOL



LOWER WATER CONSUMPTION → HIGHER CELLULAR TURGIDITY

SIBERIO

ENHANCES AND UNIFORMS THE SPROUTING OF THE BUDS



SIBERIO HIGHLIGHTS

1
Nutritional effect that promotes the development of new branches

2
Uniforms budding and flowering

3
Supports the budding of the plants which did not receive the required amount of hours of cold

EU BIOSTIMULANT FOR THE ENHANCEMENT OF SPROUTING

according to EU Reg. 2019/1009

SIBERIO is a biostimulant created to promote sprouting of buds.

SIBERIO also promotes the vegetative awakening and the uniformity of the budding, flowering and setting.

SIBERIO, mixed with **SIBERION**, thanks to its particular formulation, penetrates inside the dormant buds nourishing them and promoting the enzymatic and metabolic processes of the plant.

SIBERIO must be used with its activator **SIBERION**



PHYSICAL AND CHEMICAL PROPERTIES:

	SIBERIO	SIBERION
Density (20°C)	1.24 g/ml	1.35 g/ml
pH (1% aq. sol. w/w)	7.0	7.0
E.C. (1g/l aq. sol.)	550 µs/cm	900 µs/cm

APPLICATION RATES

CROPS	DOSES			EXAMPLE OF APPLICATION	APPLICATION RECOMMENDATIONS
	SIBERIO	SIBERION	Water volume		
Table grape	6 - 8 l / 100 l	16 - 20 l / 100 l	600 - 800 l/ha	6 l Siberio + 16 l Siberion + 78 l water	60 - 45 days before budding*, on the aerial part
Actinidia	6 - 8 l / 100 l	16 - 20 l / 100 l	600 - 800 l/ha	6 l Siberio + 16 l Siberion + 78 l water	50 - 45 days before budding*, on the aerial part
Cherry	6 - 8 l / 100 l	8 l / 100 l	1000 - 1500 l/ha	6 l Siberio + 8 l Siberion + 86 l water	45 days before flowering*, on the aerial part
Apricot	7 - 8 l / 100 l	7.5 l / 100 l	600 - 800 l/ha	6 l Siberio + 8 l Siberion + 86 l water	55 - 45 days before flowering*, on the aerial part
Plum	7 - 8 l / 100 l	7.5 l / 100 l	600 - 800 l/ha	6 l Siberio + 8 l Siberion + 86 l water	55 - 45 days before flowering*, on the aerial part
Walnut	2 - 4 l / 100 l	4 - 5 l / 100 l	1000 - 1500 l/ha	2 l Siberio + 4 l Siberion + 94 l water	45 - 35 days before budding*, on the aerial part
Almond	6 - 8 l / 100 l	6 - 8 l / 100 l	600 - 800 l/ha	6 l Siberio + 8 l Siberion + 86 l water	25 - 20 days before flowering*, on the aerial part
Raspberries	3.5 l / 100 l	9 l / 100 l	500-800 l/ha	3.5 l Siberio + 9 l Siberion + 87.5 l water	Treat only immediately after pruning/defoliation on lignified buds
Blackberries	7 l / 100 l	18 l / 100 l	500-800 l/ha	7 l Siberio + 18 l Siberion + 75 l water	Treat only immediately after pruning/defoliation on lignified buds
Apple	5 - 6 l / 100 l	5 - 6 l / 100 l	800 - 1000 l/ha	5 l Siberio + 5 l Siberion + 90 l water	From 50 - 45 days before budding *, on the aerial part

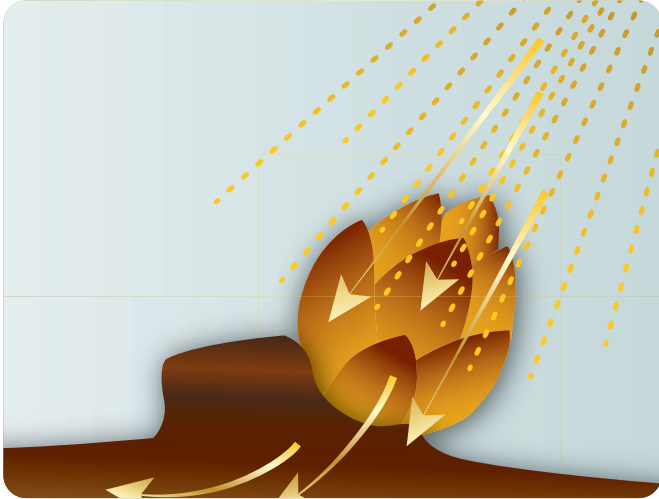
*To be managed according to weather and crops agronomical conditions.

RECOMMENDATIONS (Carefully follow the label directions):

- Do not use on young plants under the age of 3 years
- Apply in locations with less than 500 cold hours (T < 7.2 °C)
- May cause phytotoxicity on weak plants or with a poor lignification
- Any mineral oils treatments have to be made at least one week after applying SIBERIO
- Do not apply during the vegetative phase of crops
- Avoid any drift effect on nearby crops mostly on evergreens plants (examples: citrus, olive)
- Do not apply on crops other than those indicated on the label
- Do not mix with any other products which are not SIBERION or calcium nitrate;
- Shake before using in order to homogenize the product
- In the presence of different varieties in the same plot, follow strictly the directions of the times before the opening of the gems referring to each of them as in the application rates table. So as to avoid phytotoxicity effects and achieve the best effectiveness.
- On new varieties carry over a preliminary test on some plants before making extensive applications.
- Strictly comply with both crops and indications specified on the label. Not following the indications could lead to lack of biological activity of Siberio, phytotoxicity and decrease in production.

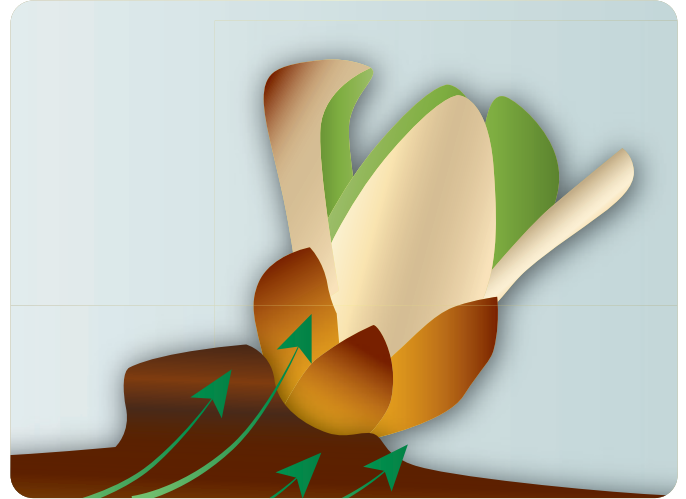
EVIDENCE

SIBERIO evens out the spring awakening of buds, allows for a more homogeneous vegetative growth and the subsequent flowering increasing quality and quantity of the crop yield in areas where plants cannot satisfy the necessity of cold hours due to mild winters.



PHASE 1

SIBERIO applied on the aerial part of the plant can quickly penetrate the dormant buds and transfer the nutrients.



PHASE 2

Once penetrated, the nutrients activate the enzymatic processes providing the needed energy to the meristematic tissues for the start of vegetative phase.

TEST ON TABLE GRAPE

Application on table grape (var. Red Globe) to evaluate the enhanced sprouting of the buds
(Fès, Morocco - 2018)



TREATED

SIBERIO 6%
45 days before budding



UNTREATED



VIVEMA TWIN HIGHLIGHTS

Constant emission of new primary, secondary and replacement roots

Balancement of soil microflora and restoration of fertility

Vital and readily reactive plants even in case of roots damaged also by biotic agents

VIVEMA TWIN



FULL RADICAL DEVELOPMENT AND SOIL FERTILITY RESTORE

EU BIOSTIMULANT FOR THE INCREASE OF ROOT BIOMASS

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165 Inspected by ECOCERT F – 32600

VIVEMA TWIN is a biostimulant composed by an exclusive mix of polyphenols contained in selected tannins, to stimulate the active development of the roots and to contribute to the preservation of fertility.

VIVEMA TWIN

- acts on the roots promoting growth and the continuous emission of new structures with a marked improvement in the assimilation of water and nutritional elements.
- acts on the plant by mitigating the negative effects due to saline or asphytic soils.
- acts on the soil with a prebiotic action, balancing the microbial community (microbiota), the mineralization of the organic matter and creating the most suitable environment for the plant growth.

PHYSICAL AND CHEMICAL PROPERTIES:

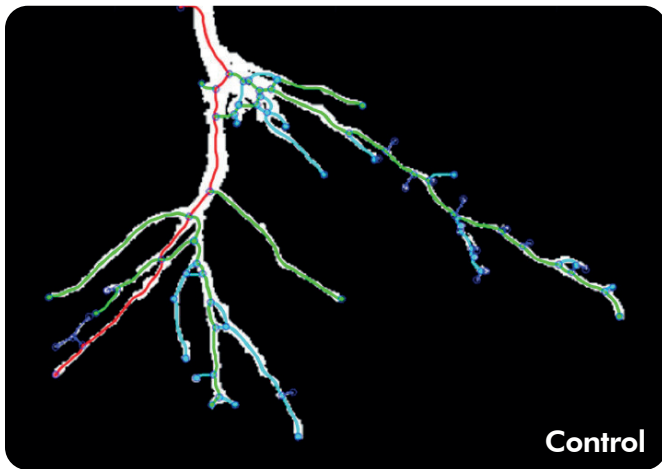
Density (20°C): 1.22 g/ml
 pH (1% aqueous solution p/p): 6.0± 0.5 u. pH
 Electrical conductivity (aqueous solution 1 g/l): 50 µS/cm

APPLICATION RATES

CROPS	DOSES	
	FERTIGATION	STAGES AND RECOMMENDATION
VEGETABLES IN OPEN FIELD AND GREEN HOUSE		
AROMATIC AND MEDICINAL PLANTS	6 - 8 l/ha	Apply 3 - 5 time starting from 3 days after transplant or emergence for a total annual dose of at least 30 l/ha
ORNAMENTALS		
STRAWBERRY		
On crops with evident stress signs due to soil conditions, increase the dose up to 10 l/ha, with a total annual dose of 50 l per hectare.		
VIVEMA TWIN can be applied in fertigation on localized irrigation systems, via sprinkling or through herbicide boom. At any water volume.		

EVIDENCE

STRONG BIOSTIMULATING ACTION OF VIVEMA TWIN ON THE ROOTS



Control



Vivema Twin

(red: primary root; green: secondary roots; blue: tertiary roots).

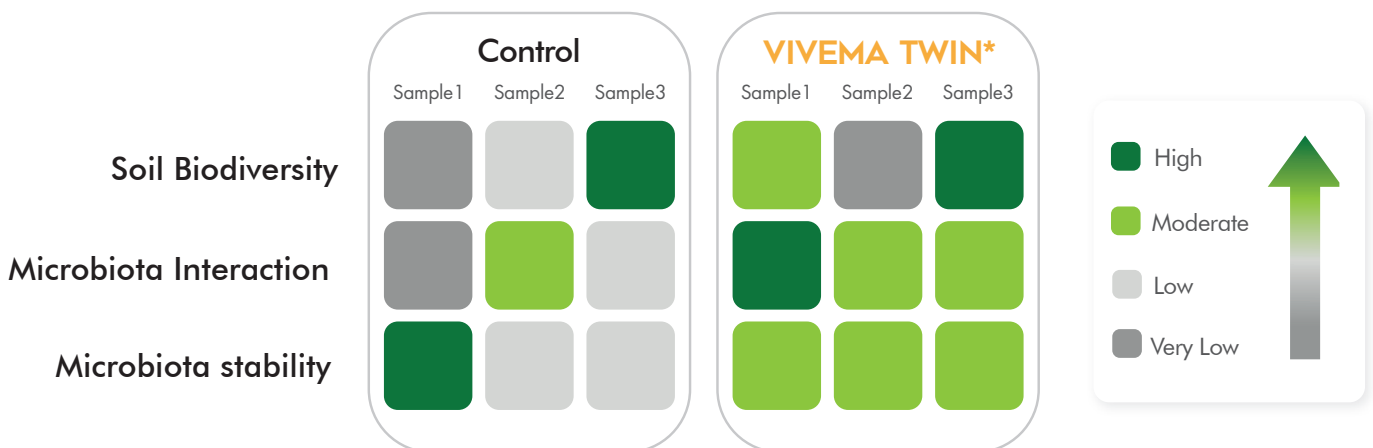
The plants treated with **VIVEMA TWIN** show a higher number of lateral roots compared to the non-treated plants. **ROOT SYSTEM ANALYZER®** is a software that highlights the various orders of the roots in different colors.

VIVEMA TWIN PREBIOTIC ACTIVITY

EVOLUTION OF THE SOIL MICROBIAL COMMUNITY (MICROBIOTA)

TOMATO IN OPEN FIELD – BIOME MAKERS

Microbiological characterization of soils obtained by isolating the bacterial and fungal DNA present in the samples.



*Total product applied = 40 l/ha



The soil treated with **VIVEMA TWIN** showed a microbiota rich, balanced and resistant to adverse conditions.



ALGAREN TWIN

PROMPT ROOTING, EXTENSIVE FLOWERING AND FRUIT SET

EU FERTILIZER

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165
Inspected by ECOCERT F – 32600

ALGAREN TWIN is a liquid fertilizer of plant origin. It provides nutrients; the composition of ingredients and the addition of *Ecklonia maxima* and bioactive yeast extract influence the proper nutrition of plants, which results in increasing full flowering and fruit set, reducing fruit drop, stimulating root development of plants and improving cluster architecture in table grapes.

ALGAREN TWIN HIGHLIGHTS

1
Root system development

2
Flowering stimulation

3
Fruit set improvement

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total nitrogen (N)	3% w/w (3.60% w/v)
Organic nitrogen (N _{org}) from vegetal origin	2% w/w (2.40% w/v)
Ammoniacal nitrogen (N)	0.2% w/w (0.24% w/v)
Total phosphorous pentoxide (P ₂ O ₅)	1% w/w (1.20% w/v)
Total potassium oxide (K ₂ O)	3% w/w (3.60% w/v)
Organic carbon (C _{org})	16% w/w (19.2 %w/v)
Dry matter	43% w/w
C _{org} /N _{tot}	5.3

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.20 g/ml
pH (1% w/w aqueous solution at 20°C): 5.5 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution at 20°C): 200 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR		
FRUIT TREES AND VINE GRAPES	2 - 2.5 l/ha	From budding to early fruit set	
	5 l/ha	End of flowering (single application) in case of fruit set problems	
TABLE GRAPE	2 - 2.5 l/ha	From budding to fruit set. To also improve cluster architecture, 4 applications at 2,5 l/ha are recommended.	
GREENHOUSE HORTICULTURE	150 ml/hl	From transplanting to early fruit set	
HORTICULTURE AND INDUSTRIAL CROPS	2 - 2,5 l/ha	At the transplanting, at 3 rd - 4 th leaf, before flowering to fruit set	
NURSERIES	100 ml/hl	At the transplanting, at 3 rd - 4 th leaf and in case of etiolation	
FLOWERS AND ORNAMENTALS	100 - 150 ml/hl	Before flowering and for nourishing the lateral buds	

Grafted vines: dip it in 300 - 500 ml/hl of ALGAREN TWIN + 200 ml/hl of MAGIC P before transplanting

Seed dressing: 100 ml of ALGAREN TWIN + 100 ml of MAGIC P/100 kg of seeds. Organic Farming: 200 ml/100 kg of seeds.

Dip, bulbs, cuttings and seedling in 0,2 - 0,4% solution before sowing

Fertigation: apply the product at the concentration of 0.5 - 2‰

EVIDENCE

ALGAREN TWIN EFFECT ON ROOT SYSTEM



UNTREATED

TREATED WITH
ALGAREN TWIN
300 ml/hl

ALGAREN TWIN EFFECT ON:

FLOWERING



ALGAREN TWIN
ON PEAR-TREE

FRUIT SET



ALGAREN TWIN
ON APPLE-TREE

CALBORON

MORE THAN A CALCIUM FERTILIZER

EU FERTILIZER

according to EU Reg. 2019/1009

CALBORON is the special calcium-based fertilizer by Greenhas Group developed to perform nutritional and anti-stress action at the same time. Calcium and boron act in synergy and are effectively transported within the plant tissues by small carboxylic acids. In addition to the carrier action, carboxylic acids are a precious source of energy for the plant. Thanks to its particular formulation, **CALBORON** is evenly distributed over plant tissues and quickly penetrates cells in order to activate plant response processes to environmental stress.

CALBORON is excellent to:

- optimize the fruit set and reducing flowers and fruit drop
- prevent and treat plant diseases caused by calcium deficiency
- increase fruit quality by reducing commercial scraps
- strengthening the consistency of plant tissues and improving shelf life
- mitigate water and saline stresses

COMPOSITION % w/w

Calcium oxide (CaO), water soluble	30% w/w
Boron (B) water soluble	1% w/w
Molybdenum (Mo) water soluble	0.002% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 350 g/l
 pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH
 Electrical conductivity (1 g/l aqueous solution at 20°C): 925 µS/cm



CALBORON HIGHLIGHTS

1
Bio-available calcium synergistic with Boron

2
Weight and consistency to fruits and prolonged shelf-life

3
Improved response to plant stress

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES AND GRAPES	3 - 5 kg/ha	-	From early fruit set every 15 days. Use the higher dosage to improve fruit consistency and shelf-life.
STRAWBERRY AND SMALL FRUITS (BERRIES)	2 - 3 kg/ha	-	From early fruit set every 15 days
HORTICULTURE	3 - 5 kg/ha (open field) 250 g/hl (greenhouse)	5 - 10 kg/ha	From early fruit set
FLOWERS, ORNAMENTALS AND NURSERIES	1.5 - 2.5 kg/ha	2 - 3 kg/ha	Every 15 - 20 days and in stress conditions

SOILLESS CROPS: use the product for the preparation of the stock solution in order to increase calcium concentration and dilute in irrigation water

*Foliar applications referred to standard water volumes

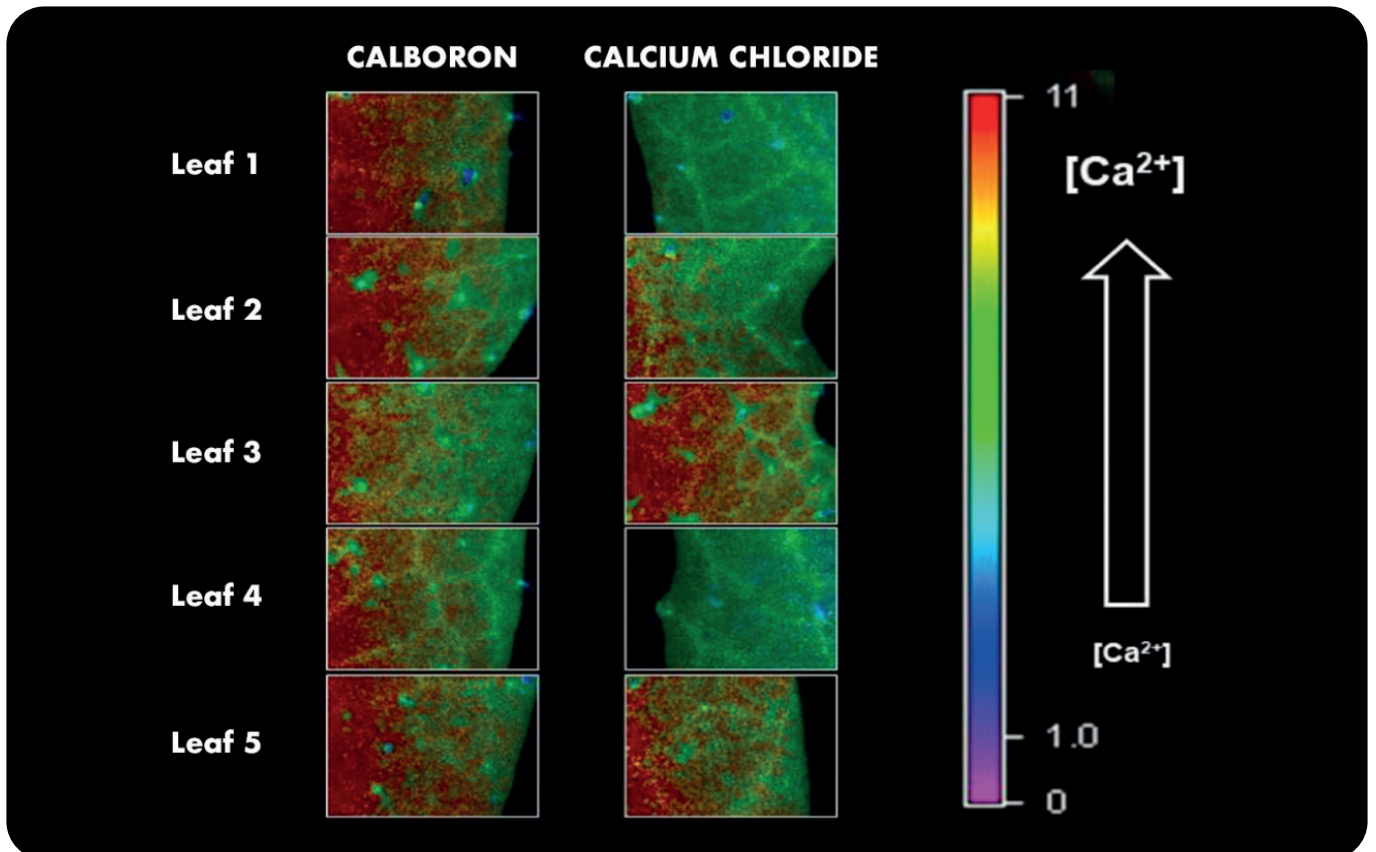
EVIDENCE

UNMATCHED SOLUBILITY



UNMATCHED ABILITY TO PENETRATE THE VEGETABLE CELLS

Evaluation of the cellular penetration of calcium in plant leaves treated with Calboron and calcium chloride (University of Milan)





EXPANDO HIGHLIGHTS

1 Increase fruit size and uniformity

2 Higher commercial value of the production

3 Promotion of rachis elongation and reduction of millerandage

EXPANDO

FRUIT ENLARGEMENT AND UNIFORMITY



EU FERTILIZER

according to EU Reg. 2019/1009

EXPANDO is a special liquid fertilizer containing nutritive elements and organic compounds entirely of plant origin. The bioactive components support the metabolic and physiological processes of the plant and they are able to favour the fruit enlargement, uniform the fruit size and obtain the best homogeneity of the maturation.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	3% w/w (3.8% w/v)
Organic Nitrogen (N _{org}) from vegetal origin	2.5% w/w (3.2 % w/v)
Ammoniacal Nitrogen (N)	0.5% w/w (0.65 % w/v)
Total Phosphorus pentoxide (P ₂ O ₅)	4% w/w (5.1% w/v)
Total potassium oxide (K ₂ O) soluble in water	6% w/w (7.6% w/v)
Boron (B) water soluble	0.02% w/w (0.025% w/v)
Manganese (Mn) chelated by EDTA water soluble	0.02% w/w (0.025% w/v)
Molybdenum (Mo) water soluble	0.1% w/w (0.13% w/v)
Organic carbon (C _{org})	16% w/w
Dry matter	45%

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.27 g/ml
 pH (1% w/w aqueous solution at 20°C): 6.5 ± 0.5 u. pH
 Electrical conductivity (1 g/l aqueous solution at 20°C): 350 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR		
FRUIT TREES			3-4 treatments starting from fruit set each 10-15 days
Stone fruits			1 st application: beginning of veraison 2 nd application: 10 days before harvest
Apple and Pear	2.5 - 3 l/ha		From 20 mm fruit size (or after thinning) 3-4 applications each 12-15 days
Hazelnut			From early fruit enlargement. 1 st application between E (hazel differentiation) and F (visible fecundated ovary), 2 nd application between G (almond growth stage 1) and H (almond growth stage 2)
Actinidia	3.5 - 4 l/ha		1 st application: after fruit set 2 nd application: 15-20 days after 1 st application 3 rd application: 15-20 days after 2 nd application 4 th application: 30 days after 3 rd application
			Berry enlargement: 1 st application: berries 4-6 mm fruit size 2 nd application: 10-16 mm fruit size 3 rd application: pre-veraison
TABLE GRAPES			Rachis elongation and millerandage reduction: 1 st application inflorescences clearly visible (or in the presence of 6 leaves at least) 2 nd application: inflorescences fully developed; flowers separating 3 rd application: flower hoods fall
WINE GRAPES			Rachis elongation and millerandage reduction: 1 st application inflorescences clearly visible (or in the presence of 6 leaves at least) 2 nd application: inflorescences fully developed; flowers separating 3 rd application: flower hoods fall
OLIVE TREES	2.5 l/ha		From stone hardening, 2 applications (also with pesticides)
VEGETABLES	2.5 - 3 l/ha		From fruit set, 3-4 applications each 10-15 days
STRAWBERRY AND SMALL FRUITS	3 l/ha		From fruit set, 3-4 applications each 10-15 days

EVIDENCE

EFFICIENCY ON APRICOT

Trial on apricot to evaluate the fruits enlargement (Artesa, Spain - 2016)

EXPANDO



5 l/ha x 1 application

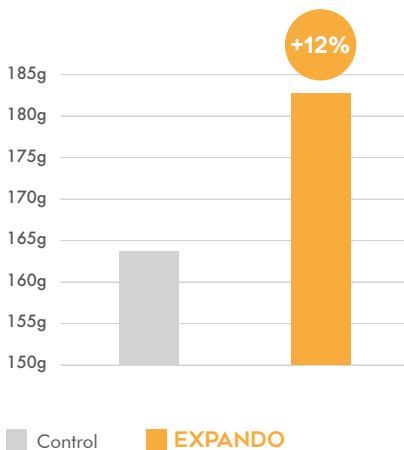
CONTROL



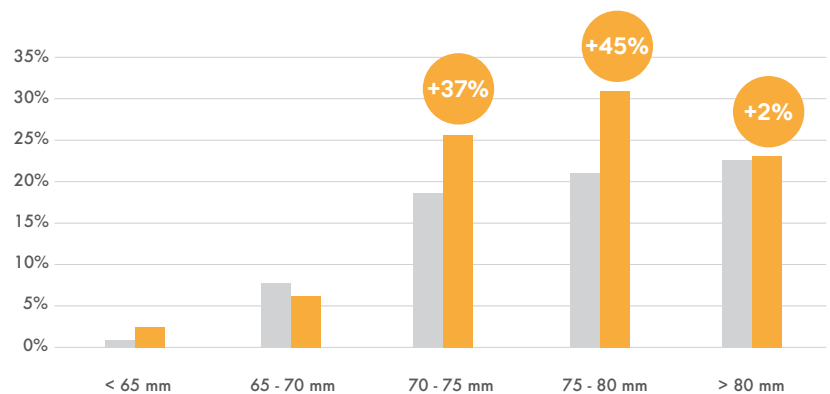
EFFICIENCY ON APPLE

Trial on apple (var. Annagò - gruppo Gala) to evaluate fruit enlargement (Lagnasco, Italy - 2015)

Fruits average weight (g)



Caliber classes distribution (%)



EXPANDO: 3.5 l/ha x 2 applications.

GREIT VG

ENHANCES WATER AND NUTRIENT USE EFFICIENCY
IN ARABLE CROPS



GREIT VG HIGHLIGHTS

Maintenance of high level of photosynthetic efficiency

Increase of water and nutrient use efficiency

High content of free aminoacids of plant origin

EU FERTILIZER

according to EU Reg. 2019/1009

GREIT VG is a special liquid fertilizer containing high level of aminoacids and organic matter of plant origin which provides a strong natural enhancement to crops for their growth, even in suboptimal water or nutritional conditions.

Thanks to the strong osmo-protectant action, it is an easy and effective tool for the growers to contrast the negative effects of the climate change.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	6% w/w (7.5% w/v)
Organic Nitrogen (N _{org}) from vegetal origin	3% w/w (3.75% w/v)
Ammoniacal nitrogen (N)	3% w/w (3.75% w/v)
Total phosphorous pentoxide (P ₂ O ₅)	1% w/w (1.25% w/v)
Organic Carbon (C _{org})	20% w/w (25% w/v)
Dry matter	54% w/w
C _{org} /N _{tot}	3.3

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.25 g/ml
pH (1% w/w aqueous solution): 6.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution): 270 μS/cm

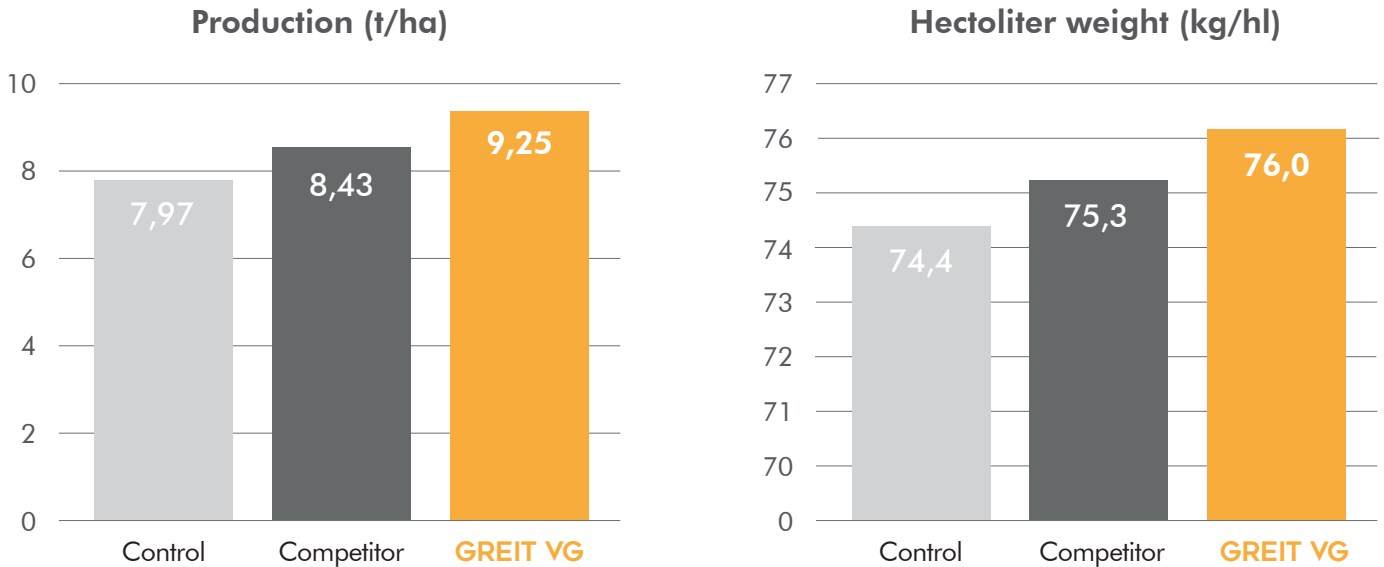
APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR		
ARABLE CROPS	2 - 3 l/ha		
FRUIT TREES AND OLIVE TREES	2 - 4 l/hl		
HORTICULTURE CROPS IN OPEN FIELD	2 - 3.5 l/ha		Any stages according to agronomic conditions
GREENHOUSE HORTICULTURE	200 ml/hl		
NURSERIES, FLOWERS, ORNAMENTALS AND AROMATIC AND OFFICIAL PLANTS	200 - 250 ml/hl		
Fertigation: 10 - 20 l/ha according to the agronomical conditions			

EVIDENCE

AN EFFECTIVE HELP FOR A BETTER WHEAT YIELD

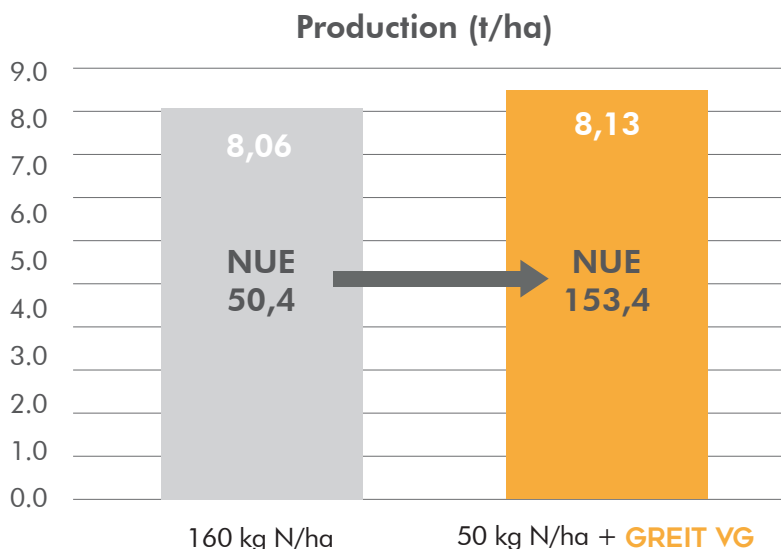
Application test on wheat, **GREIT VG** is compared to an untreated control and to a competitor of animal origin (N 8%) (Timișoara, Romania – 2017)



THESIS	PERIOD	RATE	PERIOD	RATE
CONTROL	---	---	---	---
COMPETITOR (animal origin)	stem elongation	2,5 l/ha	flag leaf	2,5 l/ha
GREIT VG	stem elongation	2,5 l/ha	flag leaf	2,5 l/ha

FOCUS ON NUTRIENT USE EFFICIENCY - TRIAL ON WHEAT

Trial on soft wheat, foliar application of **GREIT VG** is added to a mineral nitrogen fertilization to evaluate the increase in NUE (Lodi, Italy - 2022)



NUE
Factor (N) productivity
(kg yield/kg N supplied)

GREIT VG
does not replace nitrogen fertilization but it increases the nutrient use efficiency of available elements in the soil.

*GREIT VG 2l/ha x 2 applications (stem elongation and boot stage)



MINERAL-TECH FERTILIZERS

KNOW-HOW AND RELIABILITY IN MINERAL NUTRITION

The following fertilizers in this range are manufactured with a particular industrial technique which involves a specific sequence of reactions between mineral elements. The obtained formulas are in liquid form, with unique characteristics in terms of stability, nutrient content, miscibility and electrical conductivity.

These special fertilizers are able to drive crops during their phenological phases according to their precise biochemical balances, so plants can fully express their genetic potential in term of quality and quantity.



CALFOMYTH HIGHLIGHTS

1
The right nutritional ratio for inducing flowering

2
Fast and effective supply of phosphorus and calcium also in cold conditions

3
Fruits color intensification

CALFOMYTH

FLOWERING AND FRUIT SET IMPROVEMENT

EU FERTILIZER

according to EU Reg. 2019/1009

CALFOMYTH is a mineral fluid fertilizer formulated to guarantee the highest availability of phosphorus and calcium in a unique product during stages of high demand, from pre-flowering to the fruits formation phases.

The specific form of phosphorus present in **CALFOMYTH** and the addition of calcium, boron and molybdenum in the most appropriate ratio, grant the best activation of the process inducing flowering and fruit setting.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	3.5% w/w (4.73% w/v)
Nitric Nitrogen (N)	2% w/w (2.70% w/v)
Ureic Nitrogen (N)	1.5% w/w (2.03% w/v)
Total phosphorus pentoxide (P ₂ O ₅)	23% w/w (31.05% w/v)
Calcium oxide (CaO) water soluble	5% w/w (6.75% w/v)
Boron (B) water soluble	0.1% w/w (0.135% w/v)
Copper (Cu) water soluble	0.01% w/w (0.0135% w/v)
Molybdenum (Mo) water soluble	0.1% w/w (0.135% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.35 g/ml
 pH (1% aqueous solution w/w): 3.0 ± 0.5 u. pH
 Electrical conductivity (aqueous solution 1 g/l): 780 μS/cm

APPLICATION RATES

CROPS	DOSES	
	FOLIAR	
		STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	2.5 - 3.5 l/ha	
HORTICULTURE	1.5 - 2.5 l/ha	From before flowering to early ripening according to the crop needs.
EXTENSIVE CROPS	2 - 2.5 l/ha	
NURSERIES	1.5 l/ha	Starting from 4 th leaf
FLOWERS AND ORNAMENTALS	1.5 l/ha	After transplanting and before flowering

ESSEKAPPA

ALL THE POWER OF SULPHUR AND POTASSIUM

EU FERTILIZER

according to EU Reg. 2019/1009

ESSEKAPPA guarantees the maximum bioavailability of Sulphur and Potassium. It is particularly suitable for applications in fertigation, even with hard waters and in alkaline soils. **ESSEKAPPA** anticipates and uniform ripening, increases the sugar content, color and soluble solids.

On garlic, leek and onion, the sulphur and potassium contained in **ESSEKAPPA** are essential to guarantee the synthesis of the aromas, which characterize the taste.

On cabbage, turnip and radish the product activates the formation of the isothiocyanates, aromatic compounds containing sulphur, which have pronounced beneficial and aromatic properties.

On carrots, **ESSEKAPPA** increases colour and sugar content and it promotes fruit uniformity.

On potatoes, the product increases fruit size uniformity, when applied during flowering.



ESSEKAPPA HIGHLIGHTS

In fertigation, it anticipates and uniform the ripening of fruits and vegetables

High concentration of readily-bioavailable sulphur and potassium

Beneficial effect on bulbs, cabbage vegetables thanks to its sulphur content

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	3% w/w (4.3% w/v)
Ureic Nitrogen (N)	3% w/w (4.3% w/v)
Potassium oxide (K ₂ O) water soluble	23% w/w (33.3% w/v)
Sulphur trioxide (SO ₃) water soluble	39% w/w (56.5% w/v)
Molybdenum (Mo) water soluble	0.005% w/w (0.007% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.45 g/ml

pH (1% w/w aqueous solution at 20°C): 8.0 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 750 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS	2 - 4 l/ha	20 - 25 l/ha	From fruit enlargement until pre harvesting: 3-4 treatments every 15-20 days
HORTICULTURE	1.5 - 2.5 l/ha	20 - 25 l/ha	
NURSERIES, FLOWERS AND ORNAMENTALS	1 - 1.5 l/ha	10 - 15 l/ha	In case of vegetative excess. During the vegetative phase, plant growing and pre fall of the leaves



FOLIACON 22 HIGHLIGHTS

Nitric nitrogen with high synergy with calcium and magnesium

Quick, available Ca and Mg in the unique 2:1 ratio, the most natural for the crops

Effective recovery from water imbalance

FOLIACON 22

A BALANCED VEGETATIVE PUSH

EU FERTILIZER

according to EU Reg. 2019/1009

FOLIACON 22 is a special fertilizer which allows for the simultaneous application of calcium and magnesium in the most natural balance for the crops, namely 2:1, together with nitric nitrogen.

The high purity of the nutritional elements present in the formula allows to obtain, both in foliar application and in fertigation, a quick prevention of deficiencies of nutritional calcium and magnesium. Further, the nutritional elements mentioned above provide firmness to fruits and improve their resistance during transportation operations.

FOLIACON 22 grants also an effective recovery from water imbalance.

FOLIACON 22 has the peculiarity of being mixable with the most common agrochemicals.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	8.8% w/w (13.2% w/v)
Nitric Nitrogen (N)	8.8% w/w (13.2% w/v)
Calcium oxide (CaO) water soluble	10% w/w (15 % w/v)
Magnesium oxide (MgO) water soluble	5% w/w (7.5% w/v)
Copper (Cu) chelated by EDTA, water soluble	0.01% w/w (0.015% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.50 g/ml

pH (1% w/w aqueous solution at 20°C): 6.0 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 830 μS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR	FERTIGATION	
FRUIT TREES AND STRAWBERRIES	2 - 3 l/ha	10 - 20 l/ha	After fruit set to guarantee the best nutritional support to the fruits
GRAPES	2 - 3 l/ha	10 - 20 l/ha	Before fruit set for contrasting rachis desiccation (bunch stem necrosis) and after fruit set
VEGETABLES	2 - 3 l/ha	5 - 10 l/ha	During the vegetative growth also to contrast the tip burn
Leaf vegetables	2 - 2.5 l/ha	5 - 10 l/ha	During the vegetative growth also to contrast the tip burn
Tomatoes, Egg plants and Pepper	2 - 3 l/ha	5 - 10 l/ha	After fruit set also to contrast the blossom end-rot
Cucurbits	2 - 3 l/ha	5 - 10 l/ha	During all the vegetative cycle also to reduce the desiccation of leaf stalk, vitrescence, blossom and leaf margin
Fennel and celery	2 l/ha	5 - 10 l/ha	During all the vegetative cycle also to reduce the desiccation and physiological rot
Potatoes	2 - 3 l/ha	10 - 20 l/ha	During the vegetative growth and after flowering also to contrast internal browning and hollow tubers
FLOWERS AND ORNAMENTALS	1 - 1.5 l/ha	5 - 8 l/ha	To strengthen the stems, increase the leaves and the color

HASCON M10 Alta Densità

LEAD THE RIPENING PROCESS, ENHANCE
THE COLORING OF THE FRUITS AND WOOD RIPENING

EU FERTILIZER

according to EU Reg. 2019/1009

HASCON M10 Alta Densità, thanks to the exclusive production technology, has a unique ratio among macronutrients $N:P_2O_5:K_2O=0:3:4$. This ratio provides the crops with a specific chemical message which leads to the activation of the process that controls ripening stage.

The addition of trace elements like boron, manganese and molybdenum in a synergic form grants to all the nutritional elements an immediate absorption by plants.

Applied in post-harvest, **HASCON M10 Alta Densità** guarantees more resistance to frost and more buds opening in the following season.

The purity of the raw materials and formulations guarantees the perfect miscibility of **HASCON M10 Alta Densità**, both in carbonates-, bicarbonates-rich waters and in waters with a high "Sodium Absorption Ratio".

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total phosphorus pentoxide (P_2O_5)	15% w/w (21% w/v)
Potassium oxide (K_2O) water soluble	20% w/w (28% w/v)
Boron (B) water soluble	0.01% w/w (0.014% w/v)
Copper (Cu) chelated by EDTA, water soluble	0.01% w/w (0.014% w/v)
Manganese (Mn) chelated by EDTA, water soluble	0.1% w/w (0.14% w/v)
Molybdenum (Mo) water soluble	0.01% w/w (0.014% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.40 g/ml
pH (1% w/w aqueous solution): 7.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution): 550 μ S/cm



HASCON M10 Alta Densità HIGHLIGHTS

1
The most natural
fruit ripening

2
Better coloring
of fruits

3
Wood ripening
enhancement

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*		
POME FRUITS	3 - 5 l/ha	45 - 30 - 20 days before harvest, post harvest	
STONE FRUITS	3 - 5 l/ha	30 - 20 - 10 days before harvest, post harvest	
ACTINIDIA	3 - 5 l/ha	40 - 20 days before harvest	
CITRUS	3 - 5 l/ha	From pre-veraison until ripening end	
WINE GRAPES	3 - 4.5 l/ha	From fruit set until veraison end and post harvest.	
TABLE GRAPES	3 - 5 l/ha	On wine grapes the product can also be applied at low volumes (100-200 l of water/ha)	
PROCESSING TOMATO	10 l/ha	1 st application at the 1 st cluster veraison; 2 nd application after 10-15 days 3 rd application after 10-15 days	
GREENHOUSE HORTICULTURE (solanaceae and cucurbitaceae)	200 - 300 ml/hl	From veraison until ripening	
LEAF VEGETABLES	2 l/ha	Until 10 days before harvest (head closing)	
BULBS AND TUBERS (potatoes)	4 l/ha	1 st application at full blossom 2 nd application after 10 days	
STRAWBERRY AND SMALL FRUITS	300 - 400 ml/hl	From fruit set every 12-15 days	
ORNAMENTALS, FLOWERS AND NURSERIES	1 - 1.5 l/ha	To strengthen the stems, increase the leaves and the color	
EXTENSIVE CROPS (Sugarbeet, oilseed, sunflowers, cereals, etc)	2 - 5 l/ha	From early flowering according to the crops needs	

*Foliar applications referred to standard water volumes

Fertigation: use the product at the concentration of 2 - 3‰ for a rate of 15-20 l/ha treated



MAGIC P HIGHLIGHTS

1
Starter effect thanks to phosphorus content

2
Prompt availability of phosphorus and magnesium, even at low temperatures

3
High root and foliar absorption

MAGIC P

PROMPT VEGETATIVE START AND FULL ROOT DEVELOPMENT

EU FERTILIZER

according to EU Reg. 2019/1009

MAGIC P is a mineral fluid fertilizer based on phosphorus activated with magnesium that grants the maximum availability of both nutrients also at low temperatures and during the most critical crop stages.

The special formula favors the quick assimilation of phosphorus and it is ideal for promoting the root development; moreover, magnesium content improves and increases photosynthesis while zinc (in chelated form) is a vegetative boost for plants and helps the assimilation of magnesium itself.

MAGIC P can be applied both in foliar spraying and fertigation after sowing, in post-transplantation and during flowering even in low light conditions and at low temperatures.

Furthermore, **MAGIC P** has an acidifying action useful to improve the quality of the treatments when mixed with other agrochemicals.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total phosphorus pentoxide (P ₂ O ₅)	30% w/w (42% w/v)
Magnesium oxide (MgO), water soluble	7% w/w (9.8% w/v)
Copper (Cu), chelated by EDTA, water soluble	0.01% w/w (0.014% w/v)
Zinc (Zn) chelated by EDTA, water soluble	0.02% w/w (0.028% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.40 g/ml
pH (1% w/w aqueous solution): 3.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution): 450 μS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	2 - 4 l/ha	15 - 25 l/ha	At the beginning of vegetative cycle and before flowering
HORTICULTURE CROPS	2 - 5 l/ha	15 - 25 l/ha	After transplanting and before flowering
EXTENSIVE CROPS	1,5 - 3 l/ha	-	From sowing to early flowering
INDUSTRIAL CROPS	2 - 5 l/ha	10 l/ha	From planting to early flowering
NURSERIES, FLOWERS AND ORNAMENTALS	1 - 1.5 l/ha	10 l/ha	After transplanting and before flowering
SEEDS TREATMENT: 150 - 200 ml for 100 kg of seeds			
Dip seeds, bulbs and cuttings in a 0.2 - 0.4% solution before sowing			
*Foliar applications referred to standard water volumes			

MOLYSTAR

MOLYBDENUM SOURCE AND VEGETATIVE VIGOR CONTROL

EU FERTILIZER

according to EU Reg. 2019/1009

MOLYSTAR is the Mineral-tech fluid fertilizer containing a specific ratio of molybdenum and phosphorus in highly bioavailable form.

The presence of molybdenum is essential for the nitrogenous nutrition of the plant, as it participates in the transformation process of the nitric nitrogen accumulated in the leaves, into amino acids, proteins and enzymes. The lack of the microelement compromises the development of the plant.

MOLYSTAR, in addition to preventing any molybdenum deficiencies, allows to contain the vegetative excess of the plant for the benefit of the fruiting process; we recommend applying it from the beginning of the elongation of the shoots, one or two applications, avoiding flowering.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Phosphorus pentoxide (P ₂ O ₅)	12% w/w (17.2% w/v)
Copper (Cu), chelated by EDTA, water soluble	0.01% w/w (0.014% w/v)
Molybdenum (Mo) water soluble	12% w/w (17.2% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.43 g/ml
 pH (1% w/w aqueous solution at 20°C): 6.0 ± 0.5 u. pH
 Electrical conductivity (1 g/l aqueous solution at 20°C): 270 µS/cm



MOLYSTAR HIGHLIGHTS

Better nitrogen use and reduction of the presence of nitrates in the leaves

Containment of vegetative excess and improvement of flower fertility

Enhanced activity of root nodule bacteria in leguminous plants

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*		
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	500 - 1000 ml/ha		Before and after flowering; in case of vegetative excess
GREENHOUSE HORTICULTURE	50 ml/ha		Before flowering, in case of vegetative excess and in case of too much nitrates in the leaves; on legumes at 4 th - 6 th leaf to promote the root tubercle formation
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	500 ml/ha		
NURSERIES	200 ml/ha		In case of molybdenum deficiencies
FLOWERS AND ORNAMENTALS	150 - 250 ml/ha		In case of molybdenum deficiencies and before flowering
SOILLESS CROPS: use the product at the maximum concentration of 15 - 20% for preparing the mother solution and dilute in irrigation water			
*Foliar applications referred to standard water volumes			



ORGANIC FERTILIZERS

SUSTAINABLE FERTILIZATION

Our organic fertilizers have been formulated to act directly on plant metabolism and for a natural and effective reintegration of the organic substance of the soil.

The particular organic matrices employed help the plants to overcome stress and promote the microbial activity of the soil as well as improving the structure and the cation exchange capacity.



GREENHUM HIGHLIGHTS

1 Provides humic acids from leonardite

2 Increases the development of soil microflora

3 Improves the physical properties of the soil

GREENHUM



LIQUID HUMATES RICH IN PHYSIOLOGICALLY ACTIVE COMPOUNDS

EU FERTILIZER

according to EU Reg. 2019/1009

GREENHUM is an organic liquid fertilizer with high concentration of humic acids from leonardite. Humic acids improve cation-exchange capacity in the soil and increase the availability of nutrient elements for plants.

By foliar spraying, the product increases the permeability of cell membranes allowing a better absorption of nutrients; in mixture with common fertilizers, it enhances their properties. We recommend applying **GREENHUM** in sandy soils, saline soils, with high pH or lack of organic matter.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total potassium oxide (K ₂ O)	8% w/w (9.2% w/v)
Potassium oxide (K ₂ O) water soluble	8% w/w (9.2% w/v)
Organic Carbon (C _{org})	7.5% w/w (8.6% w/v)
Dry matter	25% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.15 g/ml
 pH (1% w/w aqueous solution): 10 ± 0.5 u. pH
 Electrical conductivity (1 g/l aqueous solution): 100 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR	FERTIGATION	
FRUIT TREES AND GRAPES	80 - 120 ml/hl	20 - 40 l/ha	At vegetative start; pre-flowering; fruit enlargement
HORTICULTURE *	80 - 120 ml/hl	2 - 4 l/1000 m ²	After transplantation; vegetative growth
INDUSTRIAL CROPS	80 - 120 ml/hl	20 - 40 l/ha	2 - 3 applications during vegetative growth every 15 days
ORNAMENTALS AND NURSERIES *	80 - 100 ml/hl	1 - 1,5 l/1000 m ²	During vegetative growth every 10 - 15 days
FLOWERS *	80 - 100 ml/hl	1 - 1,5 l/1000 m ²	After transplantation, applications every 10 - 15 days

In fertigation apply the product at the concentration of 2 - 3 ‰

*Doses referred to the entire crop cycle, they may be split in several applications

NUTRIGREEN AD



ENERGY FOR PLANTS



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165
Inspected by ECOCERT F – 32600

NUTRIGREEN AD is a liquid fertilizer containing aminoacids and peptides derived from the hydrolysis of selected organic matter to stimulate the plants' physiological activities.

NUTRIGREEN AD reduces all the abiotic stresses, including the ones due to herbicide application, and promotes nutrients uptake.



NUTRIGREEN AD HIGHLIGHTS

1
Promotes a rapid vegetative re-start even in stressful conditions

2
Enhances of nutrients absorption

3
Increases plant metabolic activity

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Organic Nitrogen (N)	8% w/w (10% w/v)
Organic Carbon (C)	23.5% w/w (29.3% w/v)
Organic matter	47% w/w (58.7% w/v)
Total aminoacids	50% w/w (62.5% w/v)
Free aminoacids	6% w/w (7.5% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.25 g/ml
pH (1% w/w aqueous solution): 7.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution): 250 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	2.5 - 3 l/ha	20 l/ha	During vegetative growth and in stress conditions every 15 - 20 days depending on the needs till the end of the crop cycle. To reduce the impact of the soil salinity, increase the fertigation rates up to 40 l/ha
GREENHOUSE HORTICULTURE	200 ml/hl	20 l/ha	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	2.5 - 4 l/ha	20 l/ha	
NURSERIES	1 - 2 l/ha	10 - 12 l/ha	
FLOWERS AND ORNAMENTALS	1.5 - 2 l/ha	10 - 12 l/ha	

Every 7 - 12 days



VITAVEN BZn HIGHLIGHTS

1 High valuable organic matter of plant origin

2 Boron and Zinc against possible deficiencies

3 Synergistic effect of the organic and mineral components

VITAVEN BZn

THE ENHANCED ORGANIC FERTILIZER

EU FERTILIZER

according to EU Reg. 2019/1009

VITAVEN BZn is an organic liquid fertilizer of plant origin with a consistent content of aminoacids (obtained through enzymatic hydrolysis) and a mineral component represented by two of the most essential trace elements in crop cycle: boron and zinc.

The synergistic effect of the organic fraction with the microelements enhances photosynthesis and plant metabolism, improves flowering and fruit setting, prevents potential micronutrient deficiencies and helps crops overcome stress of abiotic origin.

VITAVEN BZn can be applied both in foliar spraying and in fertigation at any stage of crop vegetative cycle; it is also tailored for post-harvest because the two components of the product replenish the nutritional reserves and promote the accumulation of nutrients in buds for lowering the freezing point.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	4% w/w (5% w/v)
Organic Nitrogen (N _{org}) from vegetal origin	2% w/w (2.5% w/v)
Ammoniacal nitrogen (N)	2% w/w (2.5% w/v)
Organic Carbon (C _{org})	15% w/w (18.7% w/v)
Boron (B) water soluble	0.5% w/w (0.6% w/v)
Zinc (Zn) water soluble	2.5% w/w (3.1% w/v)
Dry matter	51% w/w
C _{org} /N _{tot}	3.75

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.25 g/ml
 pH (1% w/w aqueous solution): 6.0 ± 0.5 u. pH
 Electrical conductivity (1 g/l aqueous solution): 300 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES AND TROPICAL FRUITS	2 - 3 l/ha*	10 -15 l/ha	From pre-flowering to the end of fruit set; in post-harvest foliar application apply 3 - 5 l/ha
GREENHOUSE HORTICULTURE	200 ml/hl	10 -15 l/ha	Any stage
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	2,5 - 3 l/ha	10 -15 l/ha	Any stage
NURSERIES, FLOWERS AND ORNAMENTALS	200 - 250 ml/hl	10 -15 l/ha	Any stage

VIT-ORG VG

ACTIVE ORGANIC MATTER



VIT-ORG VG HIGHLIGHTS

100% vegetal origin

High and fixed content of glycine betaine (7%)

The quality of its organic matter improves the physical structure of the soil

EU FERTILIZER

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165 and NOP Inspected by ECOCERT F – 32600

VIT-ORG VG is an organic fluid fertilizer containing an active mix of 100% vegetal matrices with polysaccharides selected for providing:

- a combined presence of nitrogen and potassium
- a peculiar richness in aminoacids (10 %) and glycine betaine (7%) which play an important role in overcoming stresses

Applied to the soil, it activates the microflora, improves the physical structure of the soil and the absorption of elements, preserves the organic matter content of the soil which are the agronomical bases to reduces the negative effect of abiotic stresses.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	3% w/w (3.9% w/v)
Organic Nitrogen (N _{org}) from vegetal origin	2% w/w (2.6% w/v)
Ammoniacal Nitrogen (N)	0.2% w/w (0.26% w/v)
Total Potassium oxide (K ₂ O)	6% w/w (7.8% w/v)
Organic Carbon (C _{org})	18% w/w (23.4% w/v)
Dry matter	60% w/w
C _{org} /N _{tot}	6

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.30 g/ml
pH (1% w/w aqueous solution): 7.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution): 400 μS/cm

APPLICATION RATES

CROPS	DOSES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES AND TROPICAL FRUITS	10 - 20 l/ha	From the beginning of vegetative growth to be repeated every 15-20 days depending on needs till the end of the crop cycle. For the best results in fertigation, apply at least 50 - 60 l/ha per season
GREENHOUSE HORTICULTURE	2 - 3 l/1000 m ²	From the beginning of vegetative growth to be repeated every 15-20 days depending on needs till the end of the crop cycle
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 20 l/ha	
NURSERIES, FLOWERS AND ORNAMENTALS	1.5 - 2 l/1000 m ²	Transplantation or after pruning, to repeat every 15 - 20 days till the end of the crop cycle
For foliar application 3 - 4 l/ha		



ZAMINOL HIGHLIGHTS

1
High content of L-Aminoacids for overcoming stress

2
Organic nitrogen promptly available to crops

3
Enhanced absorption of nutrient

ZAMINOL

NATURAL POWER TO CROPS



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165 and NOP Inspected by ECOCERT F – 32600

ZAMINOL is an organic liquid formula containing selected aminoacids obtained through enzymatic hydrolysis; in fact, the particular manufacturing process permits to obtain high content of L-Aminoacids, the isomeric form naturally contained in plants.

ZAMINOL provides sustainable and efficient nutrients for any kind of crops, because aminoacids are essential to plant development and play a key role in plant response to abiotic stress; moreover, the content of organic nitrogen is immediately assimilated and metabolized by crops in order to help them for saving energy for the biosynthesis of proteins

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Organic Nitrogen (N)	7.2% w/w (9.1% w/v)
Organic Nitrogen (N) soluble in water	7% w/w (8.8% w/v)
Organic Carbon (C)	21.2% w/w (26.7% w/v)
Total aminoacids	35% w/w (44.1% w/v)
Free aminoacids	6% w/w (7.6% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.26 g/ml
pH (1% w/w aqueous solution): 7.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution): 350 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR	
FRUIT TREES AND GRAPES	10 - 20 l/ha	-	
GREENHOUSE HORTICULTURE	10 - 20 l/ha	250 ml/hl	During the vegetative growth, from fruit set in case of problematic soils and in stress conditions
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 20 l/ha	3 - 5 l/ha	
EXTENSIVE CROPS	-	3 - 5 l/ha	In mixture with plant protection product
NURSERIES, FLOWERS AND ORNAMENTALS	10 - 12 l/ha	1 - 2 l/ha	Every 7 - 12 days



NPK WATER-SOLUBLE FERTILIZERS

COMPLETE AND EFFICIENT NUTRITION IN ANY CONDITION

Greenhas Group has several lines of water-soluble NPK fertilizers for foliar use or fertigation: traditional water-soluble, acid pH and also acid with calcium.

This wide range of products allows to fully nourish the crops, meeting and satisfying the production needs in each crop system.



CALFON HIGHLIGHTS

1
Complete
nutrition

2
Acidifying
effect

3
High calcium
content

CALFON Line

ACID NPK WITH CALCIUM AND MICRONUTRIENTS

EU FERTILIZERS

according to EU Reg. 2019/1009

CALFON LINE is a water-soluble fertilizer line formulated through acid reaction; it is distinguished from any other water-soluble NPK fertilizers because, in addition to macro and micronutrients, it also provides an important amount of assimilable calcium that usually it is not easy to integrate in acid fertilizers.

The considerable acidity of **CALFON LINE** improves solubilization and availability of the mineral elements. They also help to keep the fertigation systems clean, avoiding insolubilization and precipitation of the mineral elements.

Greenhas Group has created this specific line of water-soluble NPK to fully and effectively feed crops throughout the production cycle, by providing the necessary fertilizing elements at each stage, using a single product. This allows to simplify the fertigation process, employing a minimum number of products.

COMPOSITION % w/w

	N-tot %	N-nit %	N-amm %	N-ur %	P ₂ O ₅ sol H ₂ O %	K ₂ O sol H ₂ O %	CaO sol H ₂ O %	B sol H ₂ O %	Fe (EDTA) sol H ₂ O %	Mn (EDTA) sol H ₂ O %	Mo sol H ₂ O %	Zn (EDTA) sol H ₂ O %
CALFON	14	10	-	4	11	22	8	0.01	0.02	0.01	0.001	0.002
CALFON BLOOM	13	5	4.5	3.5	35	5	8	0.01	0.02	0.01	0.001	0.002
CALFON FRUIT	10	8	-	2	18	27	6	0.01	0.02	0.01	0.001	0.002

PHYSICAL AND CHEMICAL PROPERTIES

	Water solubility at 20°C (g/l)	pH (1% w/w aq. sol.)	Electrical conductivity 1 g/l aq. sol. (µS/cm)	Effect of 1 g/l of product on bicarbonates (*determined in medium hardness water)
CALFON	420	3.0 ± 0.5	1400	-80 mg/l HCO ₃ ⁻
CALFON BLOOM	350	3.0 ± 0.5	1150	-80 mg/l HCO ₃ ⁻
CALFON FRUIT	300	3.0 ± 0.5	1000	-50 mg/l HCO ₃ ⁻

APPLICATION RATES

CROPS	CALFON DOSES		STAGES AND RECOMMENDATIONS	CALFON BLOOM & CALFON FRUIT DOSES		INTERVAL (DAYS)
	FOLIAR*	FERTIGATION		FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	3 - 5 kg/ha	25 - 100 kg/ha		3 - 5 kg/ha	15 - 40 kg/ha	15 - 20
GREENHOUSE HORTICULTURE	150 - 350 g/hl	25 - 75 kg/ha	During vegetative growth and from fruit set until beginning of ripening	150 - 350 g/hl	25 - 75 kg/ha	12 - 15
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	2.5 - 4.5 kg/ha	25 - 50 kg/ha		2.5 - 4.5 kg/ha	15 - 50 kg/ha	15 - 20
NURSERIES	1 - 1.5 kg/ha	10 - 15 kg/ha		-	-	-
FLOWERS AND ORNAMENTALS	1.5 - 2.5 kg/ha	25 kg/ha	During vegetative growth	1.5 - 2.5 kg/ha	25 kg/ha	7 - 12

SOILLESS CROPS: use the product for the preparation of the stock solution at the maximum concentration of 15-20% and dilute in irrigation water

*Foliar applications referred to standard water volumes



CALFON (NPK 14-11-22+8CaO+MICRO)

Flexible and widely used thanks to its balanced formula, it gives its name to the whole line. The particular proportion of the nutritional elements satisfies the needs of most crops and allows to support the growing cycle of the plant from the vegetative phase to the ripening of the fruit.



CALFON BLOOM (NPK 13-35-5+8CaO+MICRO)

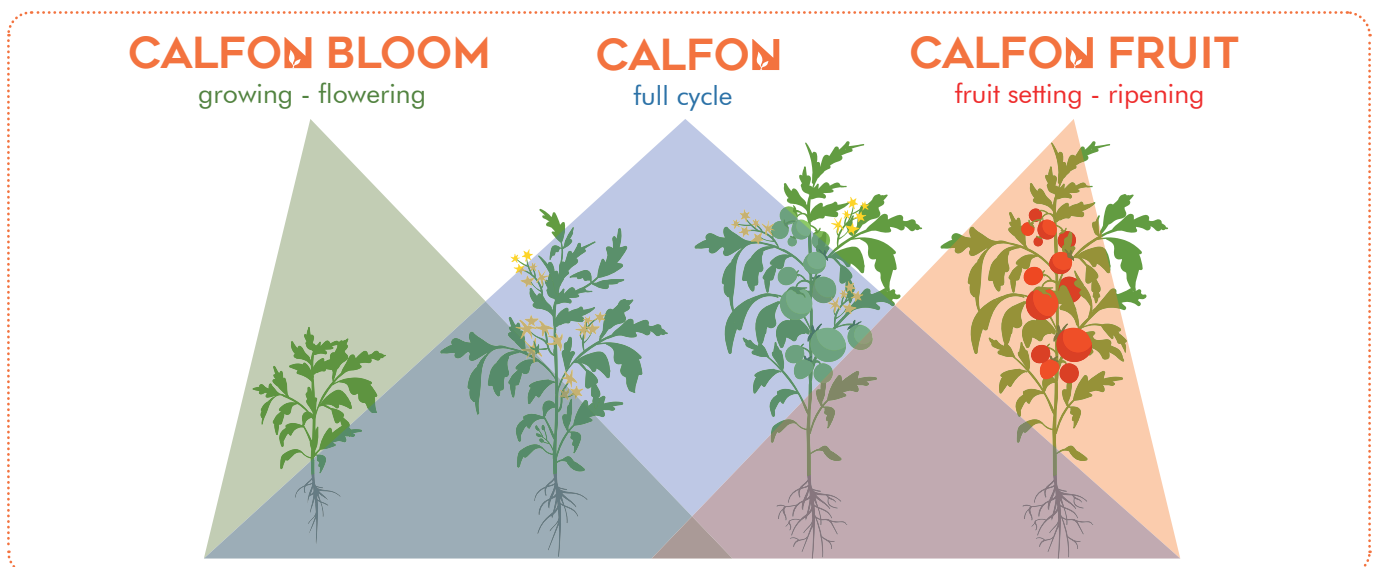
It is a formulation created specifically for the early stages of the crop cycle. The high quantity of phosphorus promotes the development of the root system and of the plant itself. The specific relationship between the fertilizing elements guarantees an ideal synergy to stimulate the flowering process.



CALFON FRUIT (NPK 10-18-27+6CaO+MICRO)

It is the ideal formulation of the **CALFON LINE** for the last phases of the crop cycle. The particular relationship between the fertilizing elements and the high potassium content are functional to the maturation process and allow to finalize the production cycle. It also particularly enhances the quality related aspects.

GROWING CYCLE





GREENPLANT HIGHLIGHTS

1
High purity
and solubility

2
Presence
of magnesium
and micronutrients

3
Flexible formulas
for every crop stage

GREENPLANT Line

NPK ENRICHED WITH MAGNESIUM AND MICRONUTRIENTS

EU FERTILIZERS

according to EU Reg. 2019/1009

GREENPLANT is a line of water-soluble microcrystalline fertilizers developed with high-quality substances, this line is characterized by a complete solubility of nutrients.

GREENPLANT are enriched with magnesium and micronutrients to sustain the nutritional intake and increase the efficacy of the product. Various formulae are available to fulfill crop requirements during the different phenological stages.

COMPOSITION % w/w

GREENPLANT	N-tot %	N-nit %	N-amm %	N-ur %	P ₂ O ₅ sol in H ₂ O %	K ₂ O sol in H ₂ O %	MgO sol in H ₂ O %
20-20-20+MICRO	20	4.4	3	12.6	20	20	-
26-5-12+2+MICRO	26	11	8.5	6.5	5	12	2
13-8-24+3+MICRO	13	6.8	6.2	-	8	24	3
10-50-10+MICRO	10	1.2	8.8	-	50	10	-
8-7-40+2+MICRO	8	7	1	-	7	40	2
6-21-36+3+MICRO	6	6	-	-	21	36	3

Microelements in "GREENPLANT Line": B 0.01 - Fe EDTA 0.02 - Mn 0.01 - Mo 0.001 - Zn 0.002

PHYSICAL AND CHEMICAL PROPERTIES

GREENPLANT	Water solubility at 20°C (g/l)	pH (1% w/w aq. sol.)	Electrical conductivity 1 g/l aq. sol. (µS/cm)
20-20-20+MICRO	360	6.0 ± 0.5	840
26-5-12+2+MICRO	450	5.5 ± 0.5	1280
13-8-24+3+MICRO	480	6.0 ± 0.5	1650
10-50-10+MICRO	390	5.5 ± 0.5	950
8-7-40+2+MICRO	395	6.0 ± 0.5	1300
6-21-36+3+MICRO	430	5.5 ± 0.5	1150

APPLICATION RATES

CROPS	DOSES FERTIGATION	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	15 - 40 kg/ha	
GREENHOUSE HORTICULTURE	2,5 - 10 kg/1000 m ²	Apply each formula according to crop stage and needs
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	15 - 50 kg/ha	
NURSERIES	10 - 15 kg/ha	Every 7 - 12 days
FLOWERS AND ORNAMENTALS	2,5 - 10 kg/1000 m ²	
SOILLESS CROPS	Use the product for the preparation of the stock solution at the maximum concentration of 15-20% and dilute in irrigation water	

GREENPLANT_{VIP} Line

ACID NPK WITH MAGNESIUM AND MICRONUTRIENTS

EU FERTILIZERS

according to EU Reg. 2019/1009

GREENPLANT VIP is a line of NPK fertilizers characterized by a low pH, which allows for the gain of acid nutritional elements. This feature guarantees the immediate availability of various nutrients, significantly reducing the chance of obstructions of the irrigation systems.

The **GREENPLANT VIP** line contributes to the reduction of the bicarbonates present in irrigation waters, allowing for the use of our formulas even in hard and alkaline-pH waters. The ability of reducing bicarbonates and the use of selected raw materials with high purity and solubility create a clear, precipitate-free stock solution, thus guaranteeing the optimal availability of nutritional elements to the plant.

The product line is characterized by a complete solubility of nutrients.

COMPOSITION % w/w

GREENPLANT VIP	N-tot %	N-nit %	N-amm %	N-ur %	P ₂ O ₅ sol H ₂ O %	K ₂ O sol H ₂ O %	MgO sol H ₂ O %	B sol H ₂ O %	Fe (EDTA) sol H ₂ O %	Mn sol H ₂ O %	Mo sol H ₂ O %	Zn sol H ₂ O %
13-8-24+3+MICRO	13	6	5.5	1.5	8	24	3	0.01	0.02	0.01	0.001	0.002
10-40-10+2+MICRO	10	1	7.5	1.5	40	10	2	0.01	0.02	0.01	0.001	0.002
8-5-40+2+MICRO	8	6.5	1.5	-	5	40	2	0.01	0.02	0.01	0.001	0.002

PHYSICAL AND CHEMICAL PROPERTIES

	Water solubility at 20°C (g/l)	pH (1% w/w aq. sol.)	Electrical conductivity 1 g/l aq. sol. (µS/cm)	Effect of 1 g/l of product on bicarbonates (*determined in medium hardness water)
13-8-24+3+MICRO	450	3.0 ± 0.5	1500	-40 mg/l HCO ₃ ⁻
10-40-10+2+MICRO	440	3.0 ± 0.5	1150	-40 mg/l HCO ₃ ⁻
8-5-40+2+MICRO	400	2.5 ± 0.5	1400	-40 mg/l HCO ₃ ⁻

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	3 - 5 kg/ha	15 - 40 kg/ha	
GREENHOUSE HORTICULTURE	150 g/hl	2,5 - 10 kg/1000 m ²	Apply each formula according to crop stage and needs
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	2.5 - 4.5 kg/ha	15 - 50 kg/ha	
NURSERIES	1 - 1.5 kg/ha	10 - 15 kg/ha	Every 7 - 12 days
FLOWERS AND ORNAMENTALS	1.5 - 2.5 kg/ha	2,5 - 10 kg/1000 m ²	

SOILLESS CROPS: use the product for the preparation of the stock solution at the maximum concentration of 15-20% and dilute in irrigation water

*Foliar applications referred to standard water volumes



GREENPLANT VIP HIGHLIGHTS

1 High acidifying action of the solution

2 Contributes to the reduction of carbonates

3 High purity and solubility



KINGLIFE HIGHLIGHTS

1
Fast and effective nutritional action

2
High solubility even in low water volumes

3
Contains chelated micronutrients easily available

KINGLIFE Line

NPK WITH MICRONUTRIENTS TAILORED FOR FOLIAR APPLICATION

EU FERTILIZERS

according to EU Reg. 2019/1009

KINGLIFE LINE is a range of water-soluble microcrystalline foliar fertilizers deriving from selected raw materials of the highest quality and purity free from phytotoxic elements.

KINGLIFE formulas are tailored for foliar spraying and they are easily absorbed by plants: they nourish plants, meeting their precise needs during the entire crop cycle for maximum yields and top quality.

Moreover, every formula contains a high concentration of micronutrients chelated by EDTA that integrates the nutritional uptake and increases products effectiveness.

The full solubility allows for easy tank mixing and eliminates any risk of spray and blockage.

COMPOSITION % w/w														
KINGLIFE	N-tot %	N-nit %	N-amm %	N-ur %	P ₂ O ₅ sol H ₂ O %	K ₂ O sol H ₂ O %	MgO sol H ₂ O %	CaO sol H ₂ O %	B sol H ₂ O %	Cu (EDTA) sol H ₂ O %	Fe (EDTA) sol H ₂ O %	Mn (EDTA) sol H ₂ O %	Mo sol H ₂ O %	Zn (EDTA) sol H ₂ O %
30-10-10+MICRO	30	3	3	24	10	10	-	-	0.05	-	0.1	0.05	0.001	0.01
20-20-20+MICRO	20	6.0	5.1	8.9	20	20	-	-	0.02	0.05	0.1	0.05	0.001	0.05
12-48-8+MICRO	12	2	10	-	48	8	-	-	0.05	-	0.1	0.05	0.001	0.01
7-5-40+3+MICRO	7	7	-	-	5	40	3	-	0.05	-	0.1	0.05	0.001	0.01
KINGLIFE CaN	20	13	6	1	6	9	-	10	0.01	-	0.1	0.05	0.001	0.01

PHYSICAL AND CHEMICAL PROPERTIES			
KINGLIFE	Water solubility at 20°C (g/l)	pH (1% w/w aq. sol.)	Electrical conductivity 1 g/l aq. sol. (µS/cm)
30-10-10+MICRO	550	6.5 ± 0.5	750
20-20-20+MICRO	520	6.5 ± 0.5	900
12-48-8+MICRO	435	6.0 ± 0.5	1100
7-5-40+3+MICRO	410	4.5 ± 0.5	1250
KINGLIFE CaN	600	3.5 ± 0.5	1300

APPLICATION RATES

CROPS	DOSES	STAGES AND RECOMMENDATIONS
	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	3 - 5 kg/ha	
GREENHOUSE HORTICULTURE	150 - 250 g/hl	
HORTICULTURE IN OPEN FIELD	2.5 - 4.5 kg/ha	Apply each formula according to crop stage and needs
NURSERIES	150 - 350 g/hl	
FLOWERS AND ORNAMENTALS	1.5 - 2.5 kg/ha	
INDUSTRIAL CROPS	2 - 4 kg/ha	

*Foliar applications referred to standard water volumes



KINGLIFE 20-20-20+MICRO

is a complete foliar feeding product that help to prevent deficiencies of all major and minor elements, especially in stressed or poor growing circumstances where root uptake is difficult (e.g. cold, wet weather conditions, high soil pH).

KINGLIFE 20-20-20+MICRO is suitable for any phenological stage of flower, horticultural and fruit crops. The high content of macro nutrients fullfills crops needs in the crop cycle, from post flowering to ripening. Also, due to its pure ingredients, it will give a fast response. Thanks to the chelating formula, **KINGLIFE 20-20-20+MICRO** guarantees good uptake through the leaves and prolonged availability of microelements.



KINGLIFE 12-48-8+MICRO

is formulated from the purest raw materials. This purity allows the complete solubility in cold water and delivers a fast crop reaction. High P is the most efficient way of providing soluble phosphorous to help re-establish vegetable transplants and for root development.

KINGLIFE 12-48-8+MICRO is best applied to young plants after root growing has stopped and phosphorous is hardly taken up by the roots.



KINGLIFE 7-5-40+3+MICRO

is a foliar feed that cures and prevents potassium and micronutrient deficiencies. This is most evident in poor growing conditions where nutrient uptake via the roots is difficult. It promotes early ripening, enhances colour and increases sugar content and hardness of fruit crops.

Since it is made up of the purest raw ingredients, **KINGLIFE 7-5-40+3+MICRO** achieves quick crop reactions.



KINGLIFE 30-10-10+MICRO

is a fertilizer in crystalline form for foliar application intended for general use during the entire plant development period and fruit-growing.

KINGLIFE 30-10-10+MICRO, thanks to its high nitrogen content, is especially recommended during intensive periods of plant growing and yield building. The presence of micronutrients in the fertilizer, in addition to the synergistic effect with macroelements, helps to prevent possible deficiencies.



KINGLIFE CaN

is a high purity microcrystalline fertilizer with high nitrogen and calcium content designed for industrial crops.

The proportion of macroelements is strongly nitrogen oriented to give plants a strong vegetative boost; at the same time, high calcium content positively influences the consistency of plant tissues and the weight of grains/fruits, as well as to strengthen plants against abiotic stress.

Moreover, the acid pH of **KINGLIFE CaN** favors a better availability of nutrients and, thanks to the acidification of the solution, it enhances the action of agrochemicals.



GYRO' HIGHLIGHTS

1
NPK ideal for
continuous-flow
solution culture

2
Inferior E.C. thanks to
raw materials derived
from nitrates

3
pH stability
of the nutrient solution

GYRO'

THE PROPER FERTILIZER FOR SOILLESS CROPS

EU FERTILIZER

according to EU Reg. 2019/1009

GYRO' 8,5-15-37+2+MICRO is a microcrystalline NPK fertilizer with high solubility tailored for soilless crops and continuous-flow solution cultures thanks to its nitrogen content exclusively in nitric form. In fact, the formula is made by high-purity raw materials derived from nitrates, so it avoids the accumulation of non-essential ions not absorbed by crops in the nutrient solution.

Furthermore, the sub-acidic formula guarantees pH stability of the nutrient solution and the high-micronutrient content, besides its synergistic and carrier action, prevents possible microelement deficiencies.

GYRO' 8,5-15-37+2+MICRO ensures maximum efficacy also in fertigation.

COMPOSITION % w/w

Total Nitrogen (N)	8.5% w/w
Nitric Nitrogen (N)	8.5% w/w
Total phosphorus pentoxide (P ₂ O ₅)	15% w/w
Potassium oxide (K ₂ O) water soluble	37% w/w
Magnesium oxide (MgO) water soluble	2% w/w
Boron (B) water soluble	0.03% w/w
Iron (Fe) chelated by EDTA, water soluble	0.05% w/w
Manganese (Mn) water soluble	0.04% w/w
Molybdenum (Mo) water soluble	0.005% w/w
Zinc (Zn) water soluble	0.01% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 390 g/l

pH (1% w/w aqueous solution at 20°C): 6.0 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 1200 µS/cm

APPLICATION RATES

CROPS	DOSES	
	FERTIGATION	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	15 - 40 kg/ha	
GREENHOUSE HORTICULTURE	25 - 30 kg/ha	During vegetative growth and from fruit set until ripening
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	15 - 50 kg/ha	
NURSERIES	10 - 15 kg/ha	Every 7 - 12 days
FLOWERS AND ORNAMENTALS	20 - 25 kg/ha	
HYDROPONICS AND SOILLESS CROPS	Use the product for the preparation of the stock solution at the maximum concentration of 15 - 20% and dilute in irrigation water according to the crop needs	



MINERAL FERTILIZERS

ALL THE ELEMENTS FOR A FINE NUTRITION

A wide range of liquid and water-soluble formulations with fertilizing elements in bioavailable form, to complete the fertilization plan or avoid nutritional deficiencies.

The alternative use of carboxylic acids, lignosulfonate, chelating or acidifying agents ensures the highest nutritional efficiency in all conditions of use, supporting the farmer's work with great flexibility.



AGRUCON MICRO HIGHLIGHTS

1
Enhanced photosynthesis efficiency and plant development

2
Clear supply of Manganese and Zinc

3
Ideal after harvest nutrition for a better re-start

AGRUCON MICRO

ENERGY SOURCE BEFORE AND AFTER HARVEST

EU FERTILIZER

according to EU Reg. 2019/1009

AGRUCON MICRO is a mineral water-soluble fertilizer containing nitrogen, potassium, magnesium and micronutrients in promptly available form.

Besides quickly preventing the possible deficiency of microelements (especially manganese and zinc), the combining action of nitrogen and magnesium directly acts on photosynthesis efficiency and plant development.

If applied after harvest, **AGRUCON MICRO** helps plants to recharge energy for an efficient re-start in spring.

COMPOSITION % w/w

Total Nitrogen (N)	27% w/w
Ureic Nitrogen (N)	27% w/w
Potassium oxide (K ₂ O) water soluble	5% w/w
Magnesium oxide (MgO) water soluble	2% w/w
Boron (B) water soluble	0.1% w/w
Manganese (Mn) water soluble	4% w/w
Zinc (Zn) water soluble	4% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 490 g/l

pH (1% w/w aqueous solution at 20°C): 6.5 ± 0.5 u. pH

Electrical conductivity (1 g/l in deionized water at 20°C): 600 µS/cm

APPLICATION RATES

CROPS	DOSES	
	FOLIAR*	STAGES AND RECOMMENDATIONS
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	3 - 5 kg/ha	During vegetative growth, fruit enlargement and after harvest
GREENHOUSE HORTICULTURE	300 g /hl	During vegetative growth and fruit enlargement
HORTICULTURE IN OPEN FIELD	2.5 - 4.5 kg/ha	
NURSERIES	1 - 1.5 kg/ha	During vegetative growth
SOILLESS CROPS: Use the product at the maximum concentration of 15 - 20% for preparing the mother solution and dilute in irrigation water		
*Foliar applications referred to standard water volumes		

HASCON 32

TRIPLE NITROGEN SOURCE FOR VEGETATIVE BOOST

EU FERTILIZER

according to EU Reg. 2019/1009

HASCON 32 is a product that allows a quick and effective nitrogen availability and, thanks to its mix of chelated trace elements, prevents deficiencies and stimulates plant metabolism.

When mixed with plant protection products (herbicides, fungicides and insecticides) in tank, it helps the active ingredient to penetrate and supports plants to overcome stress situation.

COMPOSITION % w/w (equivalent to % w/v at 20°C)	
Total Nitrogen (N)	32% w/w (41.6% w/v)
Nitric Nitrogen (N)	8% w/w (10.4% w/v)
Ammoniacal Nitrogen (N)	8% w/w (10.4% w/v)
Ureic Nitrogen (N)	16% w/w (20.8% w/v)
Boron (B) water soluble	0.05% w/w (0.065% w/v)
Copper (Cu) chelated by EDTA, water soluble	0.01% w/w (0.013% w/v)
Manganese (Mn) chelated by EDTA, water soluble	0.1% w/w (0.13% w/v)
Molybdenum (Mo) water soluble	0.001% w/w (0.0013% w/v)
Zinc (Zn) chelated by EDTA, water soluble	0.01% w/w (0.013% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.30 g/ml

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 850 µS/cm



HASCON 32 HIGHLIGHTS

1
Full supply
of nitrogen

2
Synergic trace
elements

3
Help to crops for
overcoming stress
even after herbicide
application

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	2 - 4 l/ha	20 - 40 l/ha	Vegetative re-start, fruit enlargement
GREENHOUSE HORTICULTURE	200 ml/hl	20 - 40 l/ha	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	2 - 3 l/ha	20 - 40 l/ha	Vegetative growth
NURSERIES	1 - 2 l/ha	4 - 10 l/ha	
FLOWERS AND ORNAMENTALS	1 - 2 l/ha	12 - 20 l/ha	
CEREALS	6 - 10 l/ha	-	Post emergence; the product supports the activity of herbicides and plant protection products

*Foliar applications referred to standard water volumes



HASCON S57 HIGHLIGHTS

1
Foliar fertilizer ideal to complete the plant nutrition

2
Promotes the synthesis of proteins and aromatic compounds

3
Supports the action of chemical fruit thinners

HASCON S57

PROTEINS AND AROMATIC COMPOUNDS ENHANCER

EU FERTILIZER

according to EU Reg. 2019/1009

HASCON S57 is a liquid fertilizer for foliar application containing nitrogen, potassium, sulfur and microelements. The high amount of sulfur (57% SO_3), in synergy with nitrogen and microelements, improves the synthesis of sulfuric aminoacids and the protein content of plants. This effect is very important and particularly advantageous in wheat, because it increases the quality of the flour, enhancing its aptitude for baking.

Similarly, **HASCON S57** promotes the synthesis of sulfur compounds such as iso-thiocyanates, which are mainly responsible for the characteristic aroma of many plants such as brassicaceae (cauliflower, cabbage, turnip, etc.) and liliaceae (garlic, onion, leek).

HASCON S57 when applied to apple trees during flowering, supports the action of the chemical thinners, thanks to the action of the ammonium thiosulfate and potassium thiosulfate enriched with boron, iron and zinc.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	11% w/w (14.85% w/v)
Ammoniacal Nitrogen (N)	9% w/w (12.15% w/v)
Ureic Nitrogen (N)	2% w/w (2.7% w/v)
Potassium oxide (K_2O) water soluble	5% w/w (6.75% w/v)
Sulfur trioxide (SO_3) water soluble	57% w/w (76.95% w/v)
Boron (B) water soluble	0.04% w/w (0.054% w/v)
Iron (Fe) chelated by DTPA, water soluble	0.02% w/w (0.027% w/v)
Zinc (Zn) chelated by EDTA, water soluble	0.04% w/w (0.054% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.35 g/ml

pH (1% w/w aqueous solution at 20°C): 7.5 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 1150 $\mu\text{S}/\text{cm}$

APPLICATION RATES

CROPS	DOSES	
	FOLIAR*	
		STAGES AND RECOMMENDATIONS
VEGETABLES CROPS (bulbous, crucifers, leaf-beets, carrots)	2.5 - 6 l/ha	Post-transplant or from emergency
CEREALS, RAPESEED, GRAIN LEGUMES, FORAGE LEGUMES	2.5 - 6 l/ha	Cereals: from node 2 at least 2 cm above node 1 (BBCH 32) to watery ripe (BBCH 71). Rapeseed and grain legumes at the beginning of flowering.
ORNAMENTALS AND FLORICULTURE	100 - 150 ml/ha	During vegetative growth, in case of chlorosis and high salinity
*Foliar applications referred to standard water volumes		
APPLE TREE IN FLOWERING	1.2 - 1.4 l/hl	To support the action of the chemical thinners: 1 st intervention: at the beginning of petal fall of the central flowers on old branches 2 nd intervention: 2-3 days after the 1 st application

ADVICE

- Dry plant
- Temperature between 18 and 22 °C.
- Stable weather (no rainfall on weather forecast)
- Use between 1000 and 1300 liters of water per hectare
- Do not add wetting or adhesive products
- For more information contact your local technician.

NUTROLEN

SLOW-RELEASE NITROGEN

EU FERTILIZER

according to EU Reg. 2019/1009

NUTROLEN is a slow-release nitrogen fertilizer and it can be applied on the leaves as well as through fertigation. Nitrogen stays in the soil because it cannot be washed away by rain easily. It is available for a long time thanks to its gradual release from polymeric chains of small molecular weight.

The presence of important trace elements like boron and zinc provides a balanced nutrition to the crops, improves fruit set and prevents deficiency of both nutrients.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	26% w/w (32.2% w/v)
Ureic Nitrogen (N)	7.5% w/w (9.3% w/v)
Nitrogen (N) from urea formaldehyde	18.5% w/w (22.9% w/v)
Boron (B) water soluble	0.5% w/w (0.62% w/v)
Zinc (Zn) chelated by EDTA, water soluble	0.05% w/w (0.062% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.24 g/ml

pH (1% w/w aqueous solution at 20°C): 8.5 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 20 µS/cm



NUTROLEN HIGHLIGHTS

1 Provides slow-release nitrogen and chelated microelements

2 Increases protein content in grain and leguminous plant

3 Ideal for treatments after harvest pre-fall leaves

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	4 - 6 l/ha	10 - 20 l/ha	After harvest for increasing plant reserves; at the beginning of vegetative growth or before flowering
HORTICULTURE	2 - 3 l/ha	10 - 20 l/ha	During vegetative growth
INDUSTRIAL CROPS	5 - 10 l/ha	-	During vegetative growth (possible association with herbicides)
EXTENSIVE CROPS	5 - 10 l/ha	-	During tillering stage and / or flag leaf collar formation
FODDER CROPS	10 - 20 l/ha	-	At the beginning of vegetative growth (end of winter)
FLOWERS AND ORNAMENTALS	1.5 - 2 l/ha	10 l/ha	At the beginning of vegetative growth

*Foliar applications referred to standard water volumes



T1 HAS IDRO HIGHLIGHTS

1
Simultaneous supply of Nitrogen, Potassium and Calcium

2
Perfect solubility and absence of impurities

3
Ideal for soilless and hydroponic production systems

T1 HAS IDRO

SUPPORT FOR PLANT GROWTH
ALSO IN HYDROPONIC CULTIVATION

EU FERTILIZER

according to EU Reg. 2019/1009

T1 HAS IDRO is a water-soluble fertilizer for the supply of essential elements for plant growth such as nitrogen, potassium and calcium. It can be used during the vegetative and productive phases of fruit, flower and horticultural crops.

The specific nutritional contribution allows to obtain high production yields and high quality standards.

The particular selection of top quality raw materials means that the product is perfectly soluble and particularly suitable for use in hydroponic or soilless cultivation. It is also ideal in fertigation, for the preparation of the stock solution.

COMPOSITION % w/w

Total Nitrogen (N)	15% w/w
Nitric Nitrogen (N)	15% w/w
Potassium oxide (K ₂ O) water soluble	10% w/w
Calcium oxide (CaO) swater soluble	21% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility (20°C): 432 g/l
pH (1% w/w aqueous solution): 6.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution 1 g/l): 1170 μS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	3 - 5 kg/ha	15 - 40 kg/ha	
GREENHOUSE HORTICULTURE	150 g/hl	25 - 30 kg/ha	During vegetative growth and from fruit set until beginning of ripening
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	2.5 - 4.5 kg/ha	15 - 50 kg/ha	
NURSERIES	1 - 1.5 kg/ha	10 - 15 kg/ha	During vegetative growth
FLOWERS AND ORNAMENTALS	1.5 - 2.5 kg/ha	20 - 25 kg/ha	

SOILLESS CROPS: use the product for the preparation of the stock solution at the maximum concentration of 15-20% and dilute in irrigation water

*Foliar applications referred to standard water volumes

BOROGREEN L



HIGH BIOAVAILABILITY OF BORON

EU FERTILIZER

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165
Inspected by ECOCERT F – 32600

BOROGREEN L is a liquid fertilizer containing 100% boron ethanolamine, an organic molecule with a complexing action which promotes the absorption of boron. Its high concentration, its selected material and purity, due to the exclusive Greenhas Group synthesis process, grant the best penetration and translocation of boron inside the plants (bioavailability).

BOROGREEN L promotes pollen germination and fruit setting. Further, it plays an important role in the prevention of physiopathologies such as grape millerandage, apex necrosis, fruit suberization, heart rot of beets, pear trees lithiasis and tobacco rachitis.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Boron (B) water soluble 11% w/w (15% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.36 g/ml
pH (1% w/w aqueous solution at 20°C): 8.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution at 20°C): 220 µS/cm



BOROGREEN L HIGHLIGHTS

100% Boron ethanolamine for an excellent boron bioavailability

High-quality and advanced production process

High compatibility when mixed with other products

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1.5 l/ha	2 - 5 l/ha	Before flowering, during fruit set and after harvest
GREENHOUSE HORTICULTURE	100 ml/hl	2 - 4 l/ha	Before flowering, during ripening and in case of boron deficiency
HORTICULTURE IN OPEN FIELD, CEREALS AND INDUSTRIAL CROPS	1 - 1.5 l/ha	2 - 5 l/ha	
FLOWERS AND ORNAMENTALS	50 ml/hl	1 - 2 l/ha	Before flowering and in case of boron deficiency

*Foliar applications referred to standard water volumes

CARRIER Line

HIGH BIOAVAILABILITY OF MICROELEMENTS

EU FERTILIZERS

according to EU Reg. 2019/1009

CARRIER is a line of microelements complexed with lignonsulphonates, naturally derived from lignin, a substance with high affinity with the tissues of the leaf cuticle. As a result, the microelements contained in **CARRIER Line** are fully and rapidly translocated to the leaves. These features make the products especially effective even at low dosage and with different weather conditions. **CARRIER** formulas are highly soluble and perfectly selective for crops, even if used with low water volumes, in a mix with other fertilizers or protection products. The lignonsulphonates contained in the **CARRIER Line** represent an important source of energy for the crops.



LIQUID FORMULATIONS

The two liquid formulations are produced with an exclusive technology. Two of their important features are the high purity of the formula and the high concentration of Manganese and Zinc, which guarantee a quick and effective action with low dosage per hectare. Further, when used in association with fungicides, insecticides and herbicides, they improve their adhesion to the leaves.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

	Mn total	Mn complexed	Zn total	Zn complexed
CARRIER Mn	8 (10.8)	6.4 (8.6)	-	-
CARRIER Zn	-	-	10 (13.5)	8 (10.8)

PHYSICAL-CHEMICAL PROPERTIES

	Density at 20°C (g/ml)	pH (1% aqueous solution p/p)	E.C. 1g/l (µS/cm)
CARRIER Mn	1.35	7.5 ± 0.5 u. pH	250
CARRIER Zn	1.35	7.0 ± 0.5 u. pH	350

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR		
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1 - 2 l/ha		
HORTICULTURE IN GREENHOUSE AND IN OPEN FIELD	1 - 1.2 l/ha		During vegetative growth
INDUSTRIAL CROPS	1 - 2 l/ha		
FLORICULTURE, ORNAMENTALS AND NURSERIES	0.4 - 1.2 l/ha		

Fertigation: we advise to use the product at a concentration of 1‰

CARRIER Line

HIGH BIOAVAILABILITY OF MICROELEMENTS

EU FERTILIZERS

according to EU Reg. 2019/1009

CARRIER LINE HIGHLIGHTS

1
High bioavailability
of microelements

2
High quality
of lignonsulphonates

3
High solubility

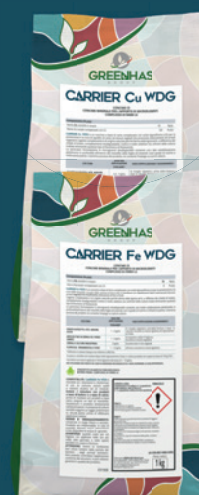
WDG FORMULATIONS



Four more products are part of the line, with an innovative WDG (water dispersible granules) formula, which combines a perfect dispersibility of the microelements in the solution and a more gradual release over time.

COMPOSITION % w/w				
	Cu total	Cu complexed	Fe total	Fe complexed
CARRIER Cu WDG	11% p/p	8.8% p/p	-	-
CARRIER Fe WDG	-	-	10% p/p	8% p/p

PHYSICAL-CHEMICAL PROPERTIES			
	Solubility at 20°C (g/l)	pH (1% aqueous solution p/p)	E.C. 1g/l (µS/cm)
CARRIER Cu WDG	300	5.5 ± 0.5 u. pH	600
CARRIER Fe WDG	300	5.5 ± 0.5 u. pH	650



APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR		
	Carrier Cu	Carrier Fe	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	0.5 - 1 kg/ha	1 - 2 kg/ha	At vegetative awakening, before flowering and after harvest. During vegetative growth and fruit enlargement.
HORTICULTURE IN GREENHOUSE AND IN OPEN FIELD	0.5 - 1 kg/ha	1 - 2 kg/ha	At transplant and from 4 th leaf. During vegetative growth.
INDUSTRIAL CROPS	0.5 - 1 kg/ha	2 kg/ha	Throughout the entire vegetative cycle
FLORICULTURE, ORNAMENTALS AND NURSERIES	0.5 - 1 kg/ha	1 - 1.5 kg/ha	At the beginning or during vegetative growth

On peach tree and kiwifruit do not treat after reaching the middle of the fruit enlargement phase. For greenhouse crops, do not go over the 50 - 80 g / 100 l (Carrier Cu WDG) and not over 150 g / 100 l (Carrier Fe WDG - Carrier Mn WDG - Carrier Zn WDG).

All formulas can be applied in fertigation with a dose of 5 - 10 kg/ha. Avoid mixing with phosphorus- and calcium-based products.



CALCIOGREEN PS PLUS HIGHLIGHTS

1
High supply of calcium biologically available

2
Calcium effectively carried by small carboxylic acids

3
Enhancement of photosynthetic activity

CALCIOGREEN PS PLUS

THE ULTIMATE CALCIUM



EU FERTILIZER

according to EU Reg. 2019/1009

CALCIOGREEN PS PLUS is a water-soluble fertilizer with high calcium content (40% CaO) effectively carried by small carboxylic acids in an activated form (Formate Technology). The special formulation allows calcium to easily penetrate into plant tissues and move quickly among cells to reach the parts of the plant where calcium is more needed (growing fruits, shoots). The carboxylic component, once the calcium has been transported, is metabolised and it supplies energy and carbon dioxide for the photosynthetic process to plants.

CALCIOGREEN PS PLUS ensures complete and deep calcium nutrition. The plant is photosynthetically active and the fruits are firm, heavier and not subject to calcium deficiency physiopathies (bitter pit in apple, apical rot in tomato, tip-burn in lettuce).

COMPOSITION % w/w

Total Calcium oxide (CaO) 40% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 130 g/l
pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution at 20°C): 1350 $\mu\text{S}/\text{cm}$

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR	FERTIGATION	
FRUIT TREES AND GRAPES	250 - 350 g/hl	4 - 8 kg/ha	From fruit set every 15 days and in stress conditions
HORTICULTURE	2 - 3 kg /ha	0.5 - 1 kg/1000 m ²	Starting from fruit set every 15 days
FLOWERS AND ORNAMENTALS	150 - 200 g/hl	0.5 - 1 kg/1000 m ²	Every 15 - 20 days and in stress conditions
FERTIRRIGATION: distribute the product at a concentration of 2 - 3 ‰			
SOILLESS CROPS: use the product for the preparation of the stock solution in order to increase calcium concentration and dilute in irrigation water			

FISIOCAL



ENHANCED CALCIUM BY "EMA" ACTIVATOR

EU FERTILIZER

according to EU Reg. 2019/1009

FISIOCAL is a liquid fertilizer containing highly assimilable calcium.

The complex of natural activators named "EMA", resulting from the research of Greenhas Group, significantly increases the assimilation and the transportation of calcium in acropetal way and promotes the translocation from the aerial part to the fruits.

The synergistic action of the "EMA" activator, in addition to the improvement of the assimilation of calcium, preserves the full functionality of the root system. In this way, physiopathologies due to calcium deficiency are avoided and the qualitative aspects of production are definitely improved.

Allowed in organic farming only for foliar treatment of apple trees to prevent deficit of calcium according to EU Reg. 2021/1165

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Calcium oxide (CaO) water soluble 18% w/w (25.2% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.40 g/ml
 pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH
 Electrical conductivity (1 g/l aqueous solution at 20°C): 900 µS/cm



FISIOCAL HIGHLIGHTS

1
EMA activator improves the radical assimilation of calcium

2
Calcium totally available for crops

3
Improvement of the qualitative aspects of productions

APPLICATION RATES

CROPS	DOSES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
FRUIT TREES AND GRAPES	20 l/ha	During fruit set and fruit enlargement (2 - 3 applications throughout crop cycle)
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 20 l/ha	After the first blossom (3 - 4 applications throughout crop cycle)
Use the product at the concentration of 0.2 - 0.3%		
for foliar application on apple: 4-5 l/ha		



GREENMIX HIGHLIGHTS

1
Relevant content
of magnesium

2
Fully supply of
micronutrients

3
High compatibility
with fertigation
products

GREENMIX

A BALANCED COMPLEX OF MAGNESIUM AND MICROELEMENTS

EU FERTILIZER

according to EU Reg. 2019/1009

GREENMIX is a water-soluble mineral product in powder form containing magnesium and trace elements, essential for the most important biochemical plant reactions.

The formula is ideal in foliar application to prevent and to cure the deficiencies of magnesium and trace elements and to improve the metabolic efficiency of plants.

Thanks to the iron content, **GREENMIX** prevents and cures chlorosis. In fertigation it can be applied alone or in mixture with liquid and water-soluble fertilizers.

COMPOSITION % w/w

Magnesium oxide (MgO) water soluble	9% w/w
Sulfur trioxide (SO ₃) water soluble	27% w/w
Boron (B) water soluble	0.5% w/w
Copper (Cu) water soluble	1% w/w
Iron (Fe) chelated by EDTA, water soluble	4% w/w
Manganese (Mn) water soluble	4% w/w
Molybdenum (Mo) water soluble	0.1% w/w
Zinc (Zn) water soluble	2% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 250 g/l

pH (1% w/w aqueous solution at 20°C): 3.5 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 850 μS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1 - 2 kg/ha	3 - 5 kg/ha	At the beginning of vegetative growth, in case of deficiency and after harvest
GREENHOUSE HORTICULTURE	100 g/hl	3 - 5 kg/ha	At the beginning of vegetative growth, in case of deficiency
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	1 - 2 kg/ha	3 - 5 kg/ha	At the beginning of vegetative growth, in case of deficiency

*Foliar applications referred to standard water volumes

KELAMYTH MP6

PREMIUM CHELATED IRON



EU FERTILIZER

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165
Inspected by ECOCERT F – 32600

KELAMYTH MP6 is a formula that prevents and cures ferric chlorosis via the roots, even in alkaline soils. In this product, iron is present in two forms: ortho-para form, which ensures a prompt availability of the micro-element, and the ortho-ortho form, which has a longer effect thanks to a better chelating action, especially at very high pH values.

COMPOSITION % w/w

Total Iron (Fe)	6% w/w
Iron (Fe) chelated by EDDHA, water soluble	6% w/w
Iron (Fe) chelated by ortho-ortho EDDHA, water soluble	3.2% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 60 g/l
pH (1% w/w aqueous solution at 20°C): 8.0 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution at 20°C): 750 μ S/cm
Stability of the chelated fraction (pH range): 3.0 - 10.0



KELAMYTH MP6 HIGHLIGHTS

1
Preventions and cure of ferric chlorosis

2
Prompt action

3
Effective also in alkaline soils

APPLICATION RATES

CROPS	DOSES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	10 - 25 g/plant	Preventive action (at least 10 liters of water)
	40 - 150 g/plant	Curative action (at least 30 - 60 liters of water)
GREENHOUSE HORTICULTURE	2 - 4 g/m ²	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	2 - 4 g/m ²	Solubilized in at least 2 - 4 liters of water
NURSERIES	2 - 4 g/m ²	
FLOWERS AND ORNAMENTALS	2 - 4 g/m ²	
SOILLESS CROPS: 150 - 300 g/hl for the preparation of the stock solution		



MAGNESIOGREEN ATTIVATO HIGHLIGHTS

1
Increases photosynthetic efficiency

2
Provides sulfur for protein synthesis

3
"Activated" with chelated micronutrients

MAGNESIOGREEN ATTIVATO



PREVENTS AND CURES DEFICIENCIES OF MAGNESIUM AND SUPPORTS THE MICRO-NUTRITION

EU FERTILIZER

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165
Inspected by ECOCERT F – 32600

MAGNESIOGREEN ATTIVATO is a mineral powder fertilizer characterized by high purity and solubility, containing magnesium, sulfur and chelated micronutrients.

Magnesium is an important element for the formation of chlorophyll and for the synthesis of sugar and pectins while sulfur has a primary role on proteins and enzymes synthesis. The microelements present in chelated form prevent nutritional deficiencies and promote the absorption of magnesium.

COMPOSITION % w/w

Magnesium oxide (MgO) water soluble	15.5% w/w
Sulphur trioxide (SO ₃) water soluble	31% w/w
Boron (B) water soluble	0.05% w/w
Copper (Cu) chelated by EDTA, water soluble	0.1% w/w
Manganese (Mn) chelated by EDTA, water soluble	0.1% w/w
Zinc (Zn) chelated by EDTA, water soluble	0.15% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 470 g/l
pH (1% w/w aqueous solution at 20°C): 6.5 ± 0.5 u. pH
Electrical conductivity (1 g/l aqueous solution at 20°C): 845 μS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	2.5 - 4.5 kg/ha	15 - 40 kg/ha	Before and after flowering
GREENHOUSE HORTICULTURE	250 g/hl	2.5 - 10 kg/1000 m ²	During vegetative growth and fruit enlargement
HORTICULTURE AND INDUSTRIAL CROPS IN OPEN FIELD	2 - 3 kg/ha	15 - 40 kg/ha	
CORN	1 - 2 kg/ha	-	Before the 5 th leaf for improving photosynthetic efficiency in association with herbicides
FLOWERS	150 - 250 g/hl	2.5 - 10 kg/1000 m ²	During vegetative growth

SOILLESS CROPS: Use the product at the maximum concentration of 15 - 20% for the preparation of the stock solution and dilute in irrigation water

*Foliar applications referred to standard water volumes

NEWCAL

EASILY ABSORBED CALCIUM



EU FERTILIZER

according to EU Reg. 2019/1009

NEWCAL is liquid fertilizer of very high purity, containing high concentration of calcium chloride. It is recommended for preventing calcium deficiencies and physiopathologies such as apple bitter pit and tomato blossom end-rot. The formula is also ideal for improving fruit shelf life, firmness and coloring.

The product can be mixed with other active ingredients commonly used in agriculture.

Allowed in organic farming only for foliar treatment of apple trees to prevent deficit of calcium according to EU Reg. 2021/1165

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Calcium oxide (CaO) water soluble 16.8% w/w (22.2% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.32 g/ml

pH (1% w/w aqueous solution at 20°C): 7.0 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 850 µS/cm



NEWCAL HIGHLIGHTS

4
Miscible with most common agrochemicals

Prevents and treats calcium deficiency physiopathologies (bitter pit, blossom end-rot, tip burn)

High purity formulation containing calcium for the food industry

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*		
APPLES AND PEARS	700 - 1000 ml/hl		Starting from 15 days after fruit-set, at least 5 applications
STONE FRUITS, GRAPES, CITRUS, OLIVE TREES	700 - 1000 ml/hl		Starting from 15 days after fruit-set, 2 - 4 applications
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	400 - 600 ml/hl		Before flowering and before fruit enlargement
TOMATO FOR CANNING	600 - 800 ml/hl		Starting from 7 days after 1st cluster fruit set, make 4 applications
GREENHOUSE HORTICULTURE	250 - 400 ml/hl		Before flowering and before fruit enlargement
NURSERIES	250 - 400 ml/hl		
FERTIGATION: Use the product at a maximum concentration of 0,1 - 0,2%			
* Foliar applications referred to standard water volumes			

OLIGOGREEN



HIGH QUALITY MICRONUTRIENTS

EU FERTILIZER

according to EU Reg. 2019/1009



Product suitable for use in Organic Agriculture conforming to regulations (EU) n° 2018/848 and 2021/1165
Inspected by ECOCERT F – 32600

OLIGOGREEN is a powder mixture of micronutrients allowed to Organic Farming with high solubility that efficiently provides chelated microelements to plants for their most important biochemical reactions.

The product penetrates on leaves and fruits immediately thanks to its chelated form; it prevents and cures micronutrient deficiencies and it improves metabolic efficiency of plants. **OLIGOGREEN** can be used in fertigation, by itself or mixed with liquid / powder fertilizers.

The high quality of raw materials guarantees purity, high solubility (420 g/l) and high stability in every pH condition; it is recommended to integrate mother solution on soilless crops.

COMPOSITION % w/w

Boron (B) water soluble	0.5% w/w
Copper (Cu) chelated by EDTA, water soluble	1% w/w
Iron (Fe) chelated by EDTA, water soluble	2% w/w
Manganese (Mn) chelated by EDTA, water soluble	4% w/w
Molybdenum (Mo) water soluble	0.05% w/w
Zinc (Zn) chelated by EDTA, water soluble	3% w/w

PHYSICAL AND CHEMICAL PROPERTIES:

Water solubility at 20°C: 420 g/l

pH (1% w/w aqueous solution at 20°C): 6.5 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 500 µS/cm

OLIGOGREEN HIGHLIGHTS

1
Top solubility and stability

2
Fast recovery of micronutrients deficiencies

3
Excellent for soilless crop solution

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	0.8 - 1.5 kg/ha	3 - 3.5 kg/ha For curative treatment 5 - 6 kg/ha	3 - 4 applications from the beginning of vegetative growth and 1 application after harvest
HORTICULTURE AND INDUSTRIAL CROPS	0.5 - 1.5 kg/ha	1 - 1.2 kg/ha For curative treatment 4 - 5 kg/ha In greenhouse apply 0.5 - 0.8 kg every 1000 m ² and for curative treatment 1.2 - 1.5 kg	3 - 5 applications from after emergence / transplant every 15 - 20 days
FLOWERS	50 - 150 g/hl	0.5 - 1.5 kg/1000 m ²	From the beginning of vegetative growth

SOILLESS CROPS: use 150 - 300 g/hl of Oligogreen with other fertilizers for the mother solution

*Foliar applications referred to standard water volumes (do not exceed the concentration of 150 g/100 l of water)

DAGLAS

ACIDIFIES THE SOIL AND ENRICHES THE CROPS

EU FERTILIZER

according to EU Reg. 2019/1009

DAGLAS is a liquid fertilizer of high purity, with high content in nitrogen, potassium and sulphur, and is enriched with boron, iron and zinc.

DAGLAS, when applied on the soil, carries out an immediate and persistent acidifying action, without inhibiting the microflora of the soil. Instead, it improves its chemical fertility, making the nutrients available even in alkaline and calcareous soils, and prolonging the action of the chelates present in the formula.

DAGLAS is particularly suitable for foliar applications as well, thanks not only to its high nitrogen, sulphur and potassium content (quickly available to the crops), but also to the balanced nutritional N/K ratio.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	11% w/w (14.85% w/v)
Ammoniacal Nitrogen (N)	9% w/w (12.15% w/v)
Ureic Nitrogen (N)	2% w/w (2.70% w/v)
Potassium oxide (K ₂ O) water soluble	5% w/w (6.75% w/v)
Sulphur trioxide (SO ₃) water soluble	57% w/w (76.95% w/v)
Boron (B) water soluble	0.04% w/w (0.054% w/v)
Iron (Fe) chelated by DTPA, water soluble	0.02% w/w (0.027% w/v)
Zinc (Zn) chelated by EDTA, water soluble	0.04% w/w (0.054% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.35 g/ml
 pH (1% sol. water p/p): 7.5 ± 0.5 u. pH
 Electrical conductivity (sol. water 1 g/l): 1150 µS/cm

APPLICATION RATES

CROPS	DOSES		STAGES AND RECOMMENDATIONS
	FERTIGATION*		
SOIL APPLICATIONS	40 l/ha		Before seeding, transplant or implantation to see an immediate corrective action of the alkalinity or salinity of the soil.
FRUIT TREES AND GRAPES	15 - 30 l/ha		From vegetative recovery
HORTICULTURE	1.5 - 3 l/1000 m ²		From transplant and throughout the entire cycle
INDUSTRIAL CROPS	15 - 30 l/ha		From transplant and throughout the entire cycle
ORNAMENTALS	1.5 - 3 l/1000 m ²		During vegetative development and in case of chlorosis
FLORICULTURE	1.5 - 2 l/1000 m ²		Vegetative phase, chlorosis and in case of high salinity
Foliar application 1.5 - 2.5 l/ha			
*Use the higher dose on saline or alkaline soils			



DAGLAS HIGHLIGHTS

1
Gradual and persistent acidification over time

2
Formula enriched with Boron and chelated microelements Fe-DTPA - Zn-EDTA

3
Safe for the operator and for the crops



VYRER PLUS HIGHLIGHTS

1
Strong wetting
and sticking effect

2
Increases
agrochemicals
effectiveness

3
Practical
and easy to use

VYRER PLUS

WATER pH REGULATOR WITH WETTING AND STICKING ACTION

EU FERTILIZER

according to EU Reg. 2019/1009

VYRER PLUS is a liquid fertilizer with an acidifying action that regulates the pH of the water used for foliar treatments. Through water acidification, the formula allows to increase the availability of the nutritional elements by solubilizing them, to improve the miscibility among different products in solution and to increase the functionality of the agrochemicals.

Thanks to its new formulation, **VYRER PLUS** has both high wetting effect and strong adhesive effect, allowing the nebulized drops to occupy a larger area on the irrigated parts and to better adhere to the leaves.

VYRER PLUS has also a cleansing action of the vegetation because it is possible to obtain an effective disintegration of the organic waste produced by insects on the vegetation and on the fruits (honeydew and sooty mould).

In addition, the product has also a cleansing action of the fertigation systems in order to avoid the obstruction of the nozzles or the formation of calcareous concretions in the hoses.

COMPOSITION % w/w (equivalent to % w/v at 20°C)

Total Nitrogen (N)	3% w/w (3.45% w/v)
Ureic Nitrogen (N)	3% w/w (3.45% w/v)
Total phosphorus pentoxide (P ₂ O ₅)	18% w/w (20.7% w/v)

PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.15 g/ml

pH (1% w/w aqueous solution at 20°C): 2.0 ± 0.5 u. pH

Electrical conductivity (1 g/l aqueous solution at 20°C): 700 μS/cm

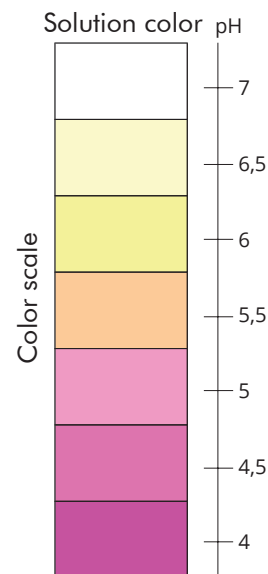
APPLICATION RATES

The doses depend on water hardness and on the desired pH level.

Added to water, **VYRER PLUS** produces a color change that, with the help of the color scale present on the label, allows to visually measure the final pH of the solution.

It is advisable to start with 50 ml/hl, increasing the dose until reaching the color corresponding to the desired pH (according to the color scale).

The product can be poured directly into the atomizer or other containers used for the application.



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