

Product catalog

TECNOBELL



Amore per la Terra



Made in Italy

Product families



**innova
Specialties**



Organics



Meso-Supplements



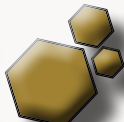
**phosphate
activators**



**water-soluble
radicals**



**water-soluble
foliar**



**liquid
fertigation**



**foliar
supplements**



Granular



Tecnobell

Tecnobell is the result of the extensive experience of individuals who have dedicated their lives to understanding and addressing the real needs of the agricultural sector.

Reflecting on the extraordinary evolution that has taken place in recent years has driven the creation of products with low environmental impact, respecting both nature and human health.

Mission

Our mission is to support every phenological stage of crops through specialized nutrition—the result of continuous research and development—thereby guaranteeing consumers healthier, cleaner food. Thanks to our extensive expertise, the skillful combination of cutting-edge laboratory equipment, state-of-the-art production facilities, and high-purity mineral and plant-based raw materials yields specialized products. These serve as precision tools for those who must strike a daily balance between high yields and superior quality, all in alignment with sustainable development capable of effectively meeting the growing global demand for food.

Vision

Amore per la Terra is our vision

It is our duty to respect and safeguard the environment in which we operate. The two defining challenges of this century are overcoming poverty and managing climate change; if we fail in one, we will not succeed in the other. Therefore, it is our task to hand down a better world to our children.



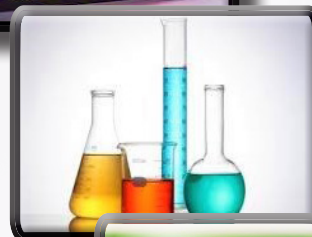
Our headquarters

Our new headquarters, energy self-sufficient and with a low environmental impact, represents the best the industry has to offer. Our expertise enables us to effectively meet the needs of clients worldwide, handling everything from the packaging to the product inside, whether solid or liquid.



Research and development

We conduct continuous global research to identify plant and mineral extracts with specific properties that can serve as raw materials for our formulations. Our goal is to create products that nourish and stimulate all plants, fostering their natural defense mechanisms against pathogens and soil-climate stresses, while always fully respecting the Earth.





Our work

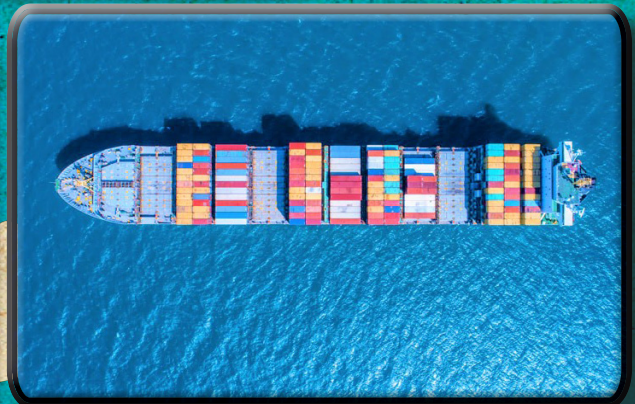
Our international department addresses the needs of clients worldwide on a daily basis, offering innovation, development, and product customization tailored to specific technical and economic requirements. This entire effort is supported by the agronomy and marketing departments.



Production, transport, and safety

Rapid order processing is followed by equally swift shipping logistics. Our packaging complies with strict standards regarding packing and sanitization for international transport; consequently, we rely solely on certified couriers who handle journeys of varying lengths—whether by land or sea—while maintaining the highest standards of hygiene and safety. Furthermore, our proximity to the port sorting hub and the offices of major freight forwarders streamlines and accelerates the handling of our goods. All of this ultimately benefits the end consumer.

*Sanitization of all
packaging*



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Innovative Specialities



We monitor all *phenological stages* to...

Kover



to protect plants from frost, cold snaps, or excessive heat

Assimila



to stimulate plant metabolism, with a consequent rapid development

Almaq



to enhance resistance to fungi and bacteria

Revivo



to restore degenerated soils, improving the mineralization of organic matter

Radiko



to develop a strong root system, even in the presence of nematodes



STRONGER PLANTS



HEALTHIER ROOTS



HIGHER RESILIENCE



BETTER YIELDS

Pego



*to enhance
fruit set and
flowering, with
an anti-drop
effect*

Erett



*to promote and
increase colour,
maturation and
Brix level*

Biofert



*to ensure
a rapid and healthy
plant growth, even
under extreme
conditions*

Shield



*to increase
plants' natural
defences against
fungi and
bacteria*

...rapid and healthy plant development

Algael

Seaweed extracts with stimulating and strengthening properties



ORGANIC NITROGEN FERTILIZER

FLUID YEAST EXTRACT CONTAINING BROWN ALGAE

ALGAEL is a liquid fertilizer based on selected extracts of brown algae—specifically **Sargassum**, **Ascophyllum nodosum**, and **Laminaria**, obtained through specialized extraction processes carried out at low temperatures and in an antioxidant environment. These methods preserve the properties of the hormones and vitamins naturally present in the algae. Consequently, the formulation is rich in auxins, gibberellins, alginic acid, betaines, amino acids, vitamins, natural antioxidants, and minerals that strengthen the plants' immune systems and stimulate growth, even under adverse environmental conditions.

- Stimulates plant growth (natural growth promoter).
- Boosts the plant's self-defense mechanisms.
- Improves nutrient uptake.
- Promotes the resumption of vegetative growth.
- Enhances fruit quality characteristics (sugar content, color, texture, shelf life).
- Increases yield in terms of both quality and quantity, and increases fruit size.
- Enables proper vegetative and productive development, even under environmental stress conditions.

REGISTRATION

SIAN Registry No. 0015957/16

COMPOSITION (% w/w)

Organic nitrogen (N) 1
Organic carbon (C) 10

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Density (g/ml, 20°C) 1.1
Color: Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg canister

16 packs of 1 kg
4 packs of 6 kg

APPLICATION

Leafing
Radical



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	5 – 6 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Algamar

Algae-based biostimulant that activates self-defense mechanisms.



EC FERTILIZER

Fluid mixture of microelements with manganese (EDTA) and zinc (EDTA)

ALGAMAR is a liquid fertilizer based on microelements and brown seaweed extract, specifically formulated to prevent and treat physiological disorders caused by micronutrient deficiencies and to enhance the plant's ability to overcome physiological and environmental stress. Brown seaweed is rich in biologically active substances that positively influence plant physiology. Of particular interest is the presence of alginates and fucoidans—special polysaccharides capable of improving plant tolerance to environmental stress by counteracting free radical activity. The formulation is rounded out by the microelements manganese and zinc, chelated with EDTA; in this form, they are rapidly and fully absorbed by plants, preventing nutritional deficiencies and accelerating recovery times following exposure to environmental stress. Thanks to the combined effect of brown seaweed and microelements, ALGAMAR promotes natural biochemical processes that protect plant tissues from adverse environmental factors, stimulates vegetative growth, and ensures balanced plant development, resulting in abundant, high-quality harvests.

- Biostimulant action across all phenological stages.
- Increased resistance to root and foliar pathogens.
- Enhanced resistance to biotic and abiotic stresses.
- Improved nutrient uptake.
- Prevention and treatment of physiological disorders caused by micronutrient deficiencies.
- Higher and earlier yields.
- Particularly recommended for artichokes, melons, watermelons, and tomatoes, whether grown in greenhouses or open fields.
- For fresh-cut (ready-to-eat) crops, application after sowing is recommended.

REGISTRATION

SIAN Registry No. 0018906/17

COMPOSITION (% w/w)

Manganese (Mn) chelated with EDTA 0.8
Zinc (Zn) chelated with EDTA 1.2

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Density (g/ml, 20°C) 1.25
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg canister
16 packs of 1 kg
4 packs of 6 kg

APPLICATION

Leafing
Radical



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 3 applications throughout the cycle	250 – 350 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 3 applications throughout the cycle	7 – 8 kg/ha

Precautions: The microelements manganese and zinc are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Almaq

Plant extract-based resistance inducer

NP 3-30 organo-mineral fertilizer in suspension

ALMAQ is a resistance inducer based on naturally derived substances and highly concentrated mineral components, capable of activating and accelerating the plant's endogenous resistance mechanisms. Its composition includes specific plant extracts, amino acids, peptides, polysaccharides, vitamins, and polyphenols. Algae are particularly significant due to their content of natural betaines, as are aloe and propolis extracts, which are recognized for their soothing properties and ability to strengthen natural defenses. ALMAQ operates via a complex mechanism known as SAR (Systemic Acquired Resistance), in which plant extracts act as elicitors that interact with specific plant cell receptors, triggering the production of natural protective compounds (phytoalexins). Furthermore, thanks to the presence of the macronutrients nitrogen and phosphorus, ALMAQ provides nutritional benefits that strengthen plant tissues, enabling them to offer greater physical and mechanical resistance against the penetration of stressors. Thanks to its unique formulation, ALMAQ stimulates plants to protect themselves against common fungal diseases; when applied regularly, it results in higher yields and superior produce quality.

- Induces the production of phytoalexins against pathogens and unfavorable soil-climatic conditions.
- Promotes the strengthening of the leaf blade, thereby enhancing natural resistance to abiotic and biotic stresses.
- Improves the overall health of the plants.
- Increases crop quality and yield.

REGISTRATION

SIAN Registry No. 0014349/15

COMPOSITION (% w/w)

Organic nitrogen (N) 0.3
Urea nitrogen (N) 2.7
Organic carbon (C) 10
Phosphorus pentoxide (P₂O₅) 30

PHYSICAL PROPERTIES

pH (1% solution) 2.15
Density (g/ml, 20°C) 1.22
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
5 kg canister
16 packs of 1 kg
4 packs of 5 kg

APPLICATION

Leafing
Radical



1 L



5 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 3 applications throughout the cycle	150 – 200 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 3 applications throughout the cycle	5 – 7 L/ha

Precautions: Shake the product well before use. Conduct preliminary tests if mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.

Almaq Bio

Plant-extract-based bio-inducer of resistance



Specialità innovativa

ORGANIC NITROGEN FERTILIZER

FLUID YEAST EXTRACT CONTAINING BROWN ALGAE WITH MICRO-ELEMENTS

! [a ! v . Lh lā I-ŋSāiāūi-yōS lāyRdzōSŋ ōi-āSŋ 2yyl-ūdzŋi-ffē RŠŋŋōSŋ ādzōāūi-yōSā I-yŋ KŋKŋfē ōzyōSŋŋi-ūSŋ YŋySŋi-f ō2YŋJ2ySŋŋā ōi-LJi-ōfS 2f I-ōūōi-ūyŋ I-yŋ I-ōōSŋŋi-ūyŋ ūKŠ LJfi-yŋā Šyŋ2Sŋ2dzā ŋSāiāūi-yōS YSōKI-yŋā Yā Lūā ō2YŋJ2āūi2yŋyōtāRŠā āLJŠōŋŋiō LJfi-yŋ ŠEŋŋi-ōūā I-Yŋy2 I-ōiRāS LJŠLJŋiRŠāS LJ2fēāi-ōōKI-ŋiRŠāS ōūi-Yŋyā I-yŋ LJ2fēLJKŠy2fā ūKI-ū āūi Ydzfi-ūS ūKŠ LJŋJ2Rdzōūi2y2f LJkēū2i-fŠEŋyā τ yŋ-ūdzŋi-f ādzōāūi-yōSā ūKI-ū Yŋi-ŋS LJfi-yŋā Y2ŋŋi ŋSāiāūi-yŋ ū2 I-ūūi-ōŋā ōē LJi-ūK2Sŋŋiō fdyŋŋi I-yŋ ōi-ōūSŋŋi-ō KŠ LJŋJ2Rdzōūi I-fā2 LJŋJ2ōiRŠā yāzūŋūi2yŋi-f ōSŋySŋŋi ūKI-yŋā ū2 ŋā2 ŋŋi-ŋŋi yŋŋi2Sŋyŋyō2yŋyŋi āūiSŋyŋiŋKŠyŋyŋ ūKŠ āūiŋdzōūi2yŋ 2f ōSŋSŋi-ūi-ūi-ūi ŋāādzSā! IŋRŋi2yŋi-ffē ūKŠ Yŋŋi2SŋySŋŋi ŋū ō2yŋi-ŋyā I-ōū I-ā ō2fŋi-ōū2ŋā f2ŋi Šyŋe YSā ūKI-ū ōi-ūi-fēŋ LJŋJ2ōSāāSā ŠāāSŋŋi-f ū2 ŠōSŋē āūi-ēS 2f ūKŠ LJfi-yŋā ŋŋi2ōūK ōēōfS ! [a ! v . Lh ōi-ā RŠōSŋf2LJŠŋ ū2 YSŋŋi ūKŠ YSŋŋi 2f ŋŋi-ŋŋi fŋi-ŋyŋyŋ ōŋŋi I-āūi2yŋ f2ōdzā 2y Šyŋŋi2yŋyŋi-f LJŋJ2ōūi2yŋi-ŋŋi Šō2āēāūiS YKŠi-fŋKŋ Kŋi-yŋā ū2 ŋā2 dzyŋJdzS f2ŋi Ydzfi-ūi2yŋ ! [a ! v . Lh āūi Ydzfi-ūSā LJfi-yŋā ū2 RŠŋyŋ ūKŠ YāSŋŋi I-ēi-ŋyā ō2Yŋy2fdyŋi-f RŋāSŋ-āSā ŋSdzfi-ŋi I-LJLŋŋi-ūi2yŋŋiSādzfŋā yKŋKŠŋi ēiSŋŋi I-yŋ ādzLJŠŋŋi LJŋJ2RdzōS Jjdzf-ŋūē

- ω LyRdzōSā ūKŠ LJŋJ2Rdzōūi2y2f LJkēū2i-fŠEŋyā
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- ω L YŋJ2ōSā ūKŠ 2ōSŋi-ff KŠi-fŋK 2f ūKŠ LJfi-yŋā
- ω Lyŋŋi-āSā ŋŋi2L Jjdzf-ŋūē I-yŋ ēiSŋŋi
- ω fdyŋi-ōfS f2ŋi dzāS ŋy2ŋi-ŋŋi fŋi-ŋyŋyŋ

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MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
C2fŋi-ŋ	Cŋdzŋiē ōSŋSŋi-ōfSŋ I-yŋ 2ŋyŋ YSŋŋi-f ŋŋi2LjāT ŋyRdzāūiŋi-f ŋŋi2Ljā	h c p I-LJLŋŋi-ūi2yā ŋKŋ2dzŋK2dzū ūKŠ ōēōfS	hll c hrl Yŋkml [2f ōi-ūSŋ
wŋRŋi-f	Cŋdzŋiē ōSŋSŋi-ōfSŋ I-yŋ 2ŋyŋ YSŋŋi-f ŋŋi2LjāT ŋyRdzāūiŋi-f ŋŋi2Ljā	h c p I-LJLŋŋi-ūi2yā ŋKŋ2dzŋK2dzū ūKŠ ōēōfS	c c y ŋKŋi

Precautions: The EDTA-chelated microelements manganese and zinc are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperature and pressure conditions. Store the product in a well-ventilated area at temperatures between +5°C and +30°C.



www.tecnobell.eu

Assimila

BIOSTIMULANT WITH ANTI-STRESS ACTION



PRODUCT WITH SPECIFIC ACTION ALFALFA PROTEIN HYDROLYSATE

ASSIMILA is an organic fertilizer with biostimulant properties, rich in plant-derived amino acids obtained through the enzymatic hydrolysis of alfalfa protein extract. The product is distinguished by its rapid absorption and significant nourishing effect on both foliage and roots. Thanks to its unique characteristics, it stimulates plant growth and provides excellent recovery support for plants affected by root asphyxia, frost, or late-season cold snaps. When used regularly, it boosts nitrogen metabolism—reducing nitrate accumulation in the leaves—and enhances the efficacy and absorption speed of phytosanitary treatments when used in combination with them.

- Improves the plant's nutritional status.
- Increases tolerance to abiotic stresses (extreme temperatures, drought, salinity, low light).
- Increases resistance to pest attacks.
- Effective in reducing nitrate content in leaves.
- Improves the efficacy of crop protection treatments.
- Helps reduce nitrate content in leaves.
- Promotes the accumulation of proteins, sugars, and antioxidants in fruit, improving produce quality.
- Enhances enzymatic activity.
- Increases photosynthesis.

REGISTRATION

SIAN Registry No. 0014342/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 4.5
Organic Carbon (C) 15
Total amino acids 28
Free amino acids 3.5

PHYSICAL PROPERTIES

pH (1% solution) 5.2
Density (g/ml, 20°C) 1.24
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan

SHIPPING CARTON

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	10 – 12 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Bestcrop

GROWTH PROMOTER



PLANT-BASED ORGANIC FERTILIZER WITH MICROELEMENTS

BESTCROP is a fully plant-based fertilizer formulated with seaweed, EDTA-chelated microelements, vitamins, polysaccharides, natural hormones, essential amino acids, and humic and fulvic acids. Of particular note is the presence of fully available betaine; acting in synergy with nitrogen and potassium, it boosts the plant's response to common limiting factors that reduce productivity, thereby enhancing resilience against stress conditions, pests, and diseases.

The formulation's rich organic content makes BESTCROP an ideal supplement for all crops—including wheat, soybeans, rapeseed, corn, fruit, vegetables, aromatic herbs, and ornamental plants—and, when applied regularly, it supports the plant throughout its entire growth cycle.

Components included in the formulation:

a) Amino acid profile (‰):

Alanina	6,4
Idrossiprolina	4,9
Prolina	7,1
Arginina	1,0
Istidina	0,5
Serina	0,2
Acidoaspartico	3,5
Isoleucina	0,8
Treonina	0,1
Acido glutammico	7,8
Leucina	2,4
Tirosina	0,8
Fenilalanina	1,4
Lisina	2,9
Valina	2,6
Glicina	13,3
Metionina	0,4
Idrossilisina	0,7
Ornitina	3,1

- b) b) Betaine: 3%
- c) Carbohydrates: alginic acid, mannitol, laminarin
- d) Plant hormones: gibberellins, auxins, cytokinins
- e) Humic and fulvic extracts: 12%
- f) Organic matter: 20%



Bestcrop

GROWTH PROMOTER



- Promotes balanced vegetative and productive development.
- Increases plant productivity.
- Enhances fruit quality.
- Improves the efficiency of mineral fertilizers and pesticides.
- Increases plant resistance to drought and stress.
- Boosts branch development and sprouting.
- Significantly improves plant resistance to harmful insects and diseases.
- Increases tolerance to environmental stress thanks to the presence of natural betaine.
- Adds organic matter to the soil, improving its structure and water-holding capacity..

REGISTRATION

SIAN Registration No.
0026506/19

COMPOSITION (% w/w)

Organic Nitrogen (N) 2
Organic Carbon (C) 10
Potassium Oxide (K₂O) 4
Copper (Cu) EDTA 0.03
Iron (Fe) EDTA 0.02
Manganese (Mn) EDTA 0.01
Zinc (Zn) EDTA 0.005

PHYSICAL PROPERTIES

pH (1% solution) 7.30
Density (g/ml, 20°C) 1.15
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 L bottle
5 L jerrycan

OUTER PACKAGING

16 x 1 L containers
4 x 5 L containers

APPLICATION

Foliar
Root/Soil



1 L



5 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 from fruit enlargement to ripening	150 – 250 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 from fruit enlargement to ripening	6 – 8 L/ha

Warnings: The EDTA-chelated microelements copper (Cu), iron (Fe), manganese (Mn), and zinc (Zn) are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between 5°C and [specified upper limit]°C.


www.tecnobell.eu

Betakel

Sugar-based nutrient with stimulating and strengthening action



ORGANIC NITROGEN FERTILIZER FLUID VINASSE WITH BETAINES

BETAKEL is an organic fertilizer derived from the processing of sugarcane molasses, rich in potassium, fulvic acids, sugars, and amino acids. Of particular note is the presence of fully available betaine; acting in synergy with nitrogen and potassium, it enhances the plant's response to common limiting factors that reduce productivity, thereby improving resilience against stress conditions, harmful insects, and diseases.

The formulation's rich organic content makes BETAKEL an ideal carrier for nutrient solutions, suitable for use on a wide range of crops (including wheat, soybeans, rapeseed, corn, fruit, vegetables, aromatic herbs, and ornamental plants).

Components included in the formulation:

- Amino acids $\geq 9\%$
- Betaines $\geq 11\%$
- Sugars $\geq 26\%$
- Fulvic acids $\geq 30\%$
- Organic matter $\geq 45\%$
- Increases plant productivity.
- Improves the efficiency of mineral fertilizers.
- Enhances plant resistance to drought and stress.
- Increases tolerance to environmental stress thanks to the presence of natural betaine.
- Adds organic matter to the soil, improving its structure and water-holding capacity.
- Supplies sugars to the soil that nourish microbial life without negative effects on the surrounding ecosystem.

REGISTRATION

SIAN Reg. No. 0028938/20

COMPOSITION (% w/w)

Organic Nitrogen (N) 2.5
Potassium Oxide (K₂O) 4
Organic Carbon (C) 26

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Density (g/ml, 20°C) 1.32
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

6 kg jug
25 kg jug
1300 kg tank

SHIPPING UNIT

4 x 6 kg jugs
32 x 25 kg jugs; 1300 kg tank

APPLICATION

Foliar
Root/Soil



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	30 – 50 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests if mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.

Biofert

GROWTH PROMOTER



ORGANIC NITROGEN FERTILIZER

FLUID YEAST EXTRACT CONTAINING BROWN ALGAE WITH MICRO-ELEMENTS

BIOFERT is an organic fertilizer based on fluid yeast extract and brown algae, designed to promote balanced plant growth. The brown algae and yeast extracts provide high levels of phytohormones, proteins, vitamins, polysaccharides, amino acids, enzymes, and minerals, naturally stimulating the plants' assimilative and metabolic processes. The formulation is rounded out by humic extracts and chelated microelements; the latter are rapidly absorbed, thereby preventing micronutrient deficiencies and avoiding unbalanced vegetative growth that could otherwise lead to reduced yields.

- Promotes balanced plant growth.
- Increases tolerance to water, thermal, and salinity stress.
- Improves crop quality and yields.
- Promotes increased root mass.
- Improves nutrient translocation and assimilation throughout the plant.
- Produces biostimulating substances and boosts the plant's immune system, increasing resistance to diseases.
- Accelerates the conversion of soil organic residues into humus.
- Promotes water retention around root hairs.
- Encourages more abundant and earlier harvests.

REGISTRATION

SIAN Registry No. 0014343/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 2
Organic Carbon (C) 10
Iron (Fe) chelated with EDTA 0.12
Manganese (Mn) chelated with EDTA 0.03
Zinc (Zn) chelated with EDTA 0.03

PHYSICAL PROPERTIES

pH (1% solution) 5.5
Density (g/ml, 20°C) 1.1
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

6 kg container
25 kg container
1200 kg tank

PACKING

4 x 5 kg containers
32 x 20 kg containers; 1200 kg tank

APPLICATION

Soil application



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	10 – 15 kg/ha

Warnings: The EDTA-chelated microelements (iron, manganese, and zinc) are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in a well-ventilated area at temperatures between +5°C and +30°C.

Biokoper

Copper-based defense mechanism activator



ORGANIC NITROGEN FERTILIZER FLUID SUSPENSION OF LEATHER MEAL BASED ON COMPLEXED COPPER

BIOKOPER is a growth-promoting nutritional specialty with protective effects on the plant. It is based on copper complexed with amino acids and peptides, which ensure rapid absorption of the element by leaves and roots.

Thanks to its special formulation, BIOKOPER prevents and treats physiological disorders caused by copper deficiency while simultaneously enhancing resistance to fungal attacks, resulting in increased yields. Complexing the copper with amino acids and peptides ensures it remains in solution in the metabolic form primarily utilized by the plant; this boosts activity against certain fungal diseases that are otherwise difficult to control and allows for a reduction in the quantity applied per hectare during fungicide treatments, thereby lowering the environmental impact. Regular applications of BIOKOPER ensure healthy, vigorous plants. The product is suitable for all types of plants and is ideal for both foliar application and fertigation.

- Promotes copper absorption and translocation.
- Stimulates the plant's primary metabolism, fostering growth and mitigating stress caused by the phytotoxic effects of copper.
- Rapidly prevents and corrects copper deficiencies.
- Improves the plant's nutritional status.
- Increases plant resistance to fungal and bacterial diseases.
- Allows for a reduction in the amount of metallic copper applied per hectare.
- Supports safe production in terms of both quantity and quality.

REGISTRATION

Protocol No.
SIAN Reg. 0014350/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 4
Organic Carbon (C) 12.5
Water-soluble Copper (Cu) 5

PHYSICAL PROPERTIES

pH (1% solution) 5.0
Density (g/ml, 20°C) 1.25
Color Petrol green

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan

SHIPPING PACK

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	80 – 120 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	7 – 8 kg/ha

Warnings: Shake the product well before use. Avoid mixing with strongly alkaline compounds, white oils, sulfur, polysulfides, or copper-based compounds. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.



Biosufre

Sulfur-based defense mechanism activator



ORGANIC NITROGEN FERTILIZER

Fluid suspension of leather meal based on complexed sulfur

- BIOSUFRE is a special formulation created by complexing micronized sulfur with amino acids and selected brown seaweed extracts. This yields several benefits:

- promotion of defense mechanisms against abiotic and biotic stress, thanks to the sulfur content;
- strengthening of the plant's immune system, thanks to auxins, gibberellins, alginates, betaines, vitamins, and antioxidants naturally present in the seaweed;
- nutritional action, thanks to the organic nitrogen derived from amino acids.

The innovative "flowable" gel formulation—characterized by high stability—helps keep the sulfur in suspension, giving the product excellent wettability and adhesiveness while ensuring rapid, immediate assimilation. Consequently, BIOSUFRE allows for a reduction in the amount of elemental sulfur applied per hectare, lowering the risk of phytotoxicity. Furthermore, the gel consistency makes the product easier and more practical to use, while ensuring greater persistence and efficacy through improved coverage.

When applied via fertigation, BIOSUFRE acidifies the soil and reduces salinity; when applied as a foliar spray, it facilitates the penetration of its nutrients, thanks to the carrier properties of the amino acids. The product is particularly suitable for grapevines and fruit trees in general, as well as for cucurbits and other vegetable crops.

- Boosts defense mechanisms.
- Provides nourishment.
- Acts as a biostimulant.
- Acidifies the soil and reduces its salinity.
- Allows for a reduction in sulfur usage per hectare.

REGISTRATION

SIAN Registry No. 0014351/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 3
Organic Carbon (C) 10
Total Sulfur (S) 24

PHYSICAL PROPERTIES

pH (1% solution) 7.30
Density (g/ml, 20°C) 1.30
Color Light brown

FORMULATION

Flowable

PACKAGING

1 kg bottle
6 kg container
25 kg container

PACKING

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	300 – 350 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	8 – 10 kg/ha

Precautions: Shake well before use. Do not mix with alkaline-reacting products. Conduct a compatibility test before mixing with plant protection products or other fertilizers. Do not mix directly with amino acids derived from other protein sources, humic acids, or organic products. The product is stable under ordinary temperature and pressure conditions. Store at temperatures between 5°C and 30°C. The product is non-combustible.



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Despert

Dormancy-breaking promoter

EC FERTILIZER

NITROGEN FERTILIZER SOLUTION WITH CALCIUM

In regions with mild winters, a failure to meet chilling hour requirements leads to irregular bud break, poor bud fertility, and reduced yield potential. DESPERT is a natural biostimulant containing components that mimic the effects of cold on plants and stimulate the metabolic reactivation of buds, thereby enhancing and synchronizing bud break, flowering, and fruit set. Dormancy can be defined as a temporary suspension of visible plant growth. This state persists until the plant has accumulated a specific number of chilling hours; once this threshold is reached—provided temperatures are sufficiently high—the buds open and shoots develop. Sometimes, the required number of chilling hours is not met, or is reached late; consequently, the plant fails to sprout normally or does so with a significant delay, resulting in very low yields and fruit that is smaller and sometimes deformed. Enriched with nitrogen, calcium, polysaccharides, and amino acids, DESPERT overcomes prolonged bud dormancy by enabling the plant to initiate the metabolic processes that break the dormant state.

DESPERT should be used in conjunction with the mineral activator LETARGY to optimally support the plant's heightened enzymatic activity.

- Advances and synchronizes bud break and ripening in table grapes, cherries, and kiwifruit.
- Reduces the number of blind buds.
- Increases the number of flowers and clusters.
- Reduces the number of harvesting passes.
- Increases both yield quantity and quality.

COMPOSITION (% w/w)

Total Nitrogen (N) 16
Ammoniacal Nitrogen (N) 7
3.5 Nitric Nitrogen (N) 7
Ureic Nitrogen (N) 5.5
Calcium Oxide (CaO) 6

PHYSICAL PROPERTIES

pH (1% solution) 5
Density (g/ml, 20°C) 1.35
Color Light yellow

FORMULATION

Liquid

PACKAGING

20 L container
1000 L tank

PACKING

32 x 20 L containers; 1000 L tank

APPLICATION

Foliar



20 L



1000 L

MODE OF USE	CULTURE	DOSES	WHEN TO APPLY IT
Foliar	Cherry tree	5–6 L/100 L of solution, combined with 7 L of LETARGY—i.e.: 5 or 6 L of DESPERT + 7 L of LETARGY + 86 or 87 L of water	A single application in areas with fewer than 500 chill hours ($T < 7^{\circ}\text{C}$). Apply to dormant plants 45–55 days before bud break, ensuring optimal and uniform coverage.
	Table grapes	6–8 L/100 L of solution, combined with 10 or 12 L of LETARGY—i.e.: 6 or 8 L of DESPERT + 12 L of LETARGY + 82 or 80 L of water	
	Actinidia		

Precautions: The product must be applied exclusively with its activator, LETARGY. Do not apply the product to plants younger than 3 years old. Do not apply in areas that have experienced more than 500 hours of cold temperatures ($T < 7^{\circ}\text{C}$). Do not apply at temperatures below 6°C . Avoid spray drift. Avoid applying oils in close succession (allow a 12–15 day interval). Thoroughly wash the equipment used to apply the solution. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in a well-ventilated area at temperatures between $+5^{\circ}\text{C}$ and $+30^{\circ}\text{C}$.



Erett

Natural ripening promoter

Suspension NK 3-7 organo-mineral fertilizer with boron and iron

ERETT promotes sugar production and accelerates biochemical ripening processes. Thanks to its content of macro- and micro-elements, polysaccharides, specific plant extracts, and essential amino acids, it naturally enhances fruit ripening and coloration. Specifically, the amino acids arginine, alanine, and leucine foster the synthesis of precursors responsible for the flavor and aromas characteristic of the cultivated variety; proline and glycine provide anti-stress benefits and stimulate photosynthesis; phenylalanine positively influences the synthesis of anthocyanins, which are responsible for fruit skin coloration; and methionine acts as a natural precursor to ethylene, a hormone that stimulates and coordinates ripening and the accumulation of simple sugars. Among the macronutrients involved in the ripening process, potassium is particularly significant; it is essential for ensuring greater and more efficient sugar formation within storage organs, as well as for the development of skin pigments and the volatile compounds that define the aroma and flavor of fruits and vegetables.

The ERETT formulation is rounded out by the micro-elements boron and iron (chelated with EDTA), which give leaves their natural color and luster. Boron, acting in synergy with potassium, ensures uniform ripening and plays a role in carbohydrate metabolism.

ERETT is particularly recommended for high-yield crops, in situations where soil and climatic conditions are unfavorable to ripening processes, and whenever the goal is to improve produce quality (specifically firmness and Brix levels).

- Promotes fruit ripening.
- Enhances and evens out fruit coloration and sheen.
- Increases sugar concentration (higher Brix levels).
- Improves ripening uniformity, reducing harvest waste.
- Extends post-harvest shelf life.
- Increases produce weight, size, and firmness.
- For flowers and ornamental plants, enhances flower brilliance and post-harvest longevity.



1 kg



6 kg

REGISTRATION

SIAN Registry No. 0020025/17

COMPOSITION (% w/w)

Organic Nitrogen (N) 3
Organic Carbon (C) 12
Potassium Oxide (K₂O) 7
Water-soluble Boron (B) 0.4
EDTA-chelated Iron (Fe) 0.5

PHYSICAL PROPERTIES

pH (1% solution) 7
Density (g/ml, 20°C) 1.3
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jug

SHIPPING CARTON

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar
Root/Soil

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 3 applications throughout the cycle	350 – 400 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 3 applications throughout the cycle	5 – 7 kg/ha

Warnings: The EDTA-chelated iron micronutrient is stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.

Growfert

Rooting promoter

NP 4.8-23 organo-mineral suspension fertilizer with molybdenum and zinc

GROWFERT is a root-promoting agent derived from a carefully balanced blend of plant extracts, essential amino acids, and the key nutrients nitrogen and phosphorus.

The formulation features specific amino acids that act as precursors to the plant hormones governing organ growth. In addition to nourishing crops during their early stages, the product stimulates the formation of a dense network of absorptive adventitious roots.

The formulation is rounded out by molybdenum and zinc. Molybdenum supports growth by playing a role in nitrogen fixation and nitrate reduction, while zinc is involved in the synthesis of nucleic acids and proteins, as well as the metabolism of auxins—the plant hormones responsible for development. Applying GROWFERT reduces transplant or repotting stress, ensuring better establishment and promoting uniform, consistent growth across all seedlings.

- Promotes the emergence of new adventitious roots.
- Encourages the elongation of existing roots.
- Ensures recovery from transplant shock.
- Ensures successful seedling establishment.
- Improves root uptake, resulting in uniform vegetative growth.
- Suitable for pre-transplant soaking of seeds, bulbs, and roots.

REGISTRATION

SIAN Registration No.
0015956/16

COMPOSITION (% w/w)

Organic Nitrogen (N) 2.8
Ammoniacal Nitrogen (N) 2
Organic Carbon (C) 10
Phosphorus Pentoxide (P₂O₅) 23
Water-soluble
Molybdenum (Mo) 0.2
Zinc (Zn) chelated with
EDTA 0.2

PHYSICAL PROPERTIES

pH (1% solution) 3.12
Density (g/ml, 20°C) 1.29
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg container

OUTER PACKAGING

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Soil application



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	1 – 2 applications throughout the cycle	6 – 10 kg/ha

Precautions: The EDTA-chelated zinc micronutrient is stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.



Kover

Biostimulant with heat and water stress-relieving action

Mixed solutions based on calcium and magnesium salts

KOVER is a formulation designed to prevent and mitigate damage caused by thermal and water stress resulting from adverse environmental conditions—such as plant tissue dehydration due to high evapotranspiration in hot weather, or reduced root nutrient uptake during intense cold or frost. Thanks to the synergistic action of its plant-based components, KOVER effectively helps plants overcome growth stalls caused by unfavorable weather. The formulation's content of betaines, glucosides, and amino acids provides a vital biostimulating effect, enabling plants to regain optimal health. KOVER features colloidal compounds that form a thin protective film, thereby curbing water loss from the foliage (an anti-transpirant effect). Calcium and magnesium work synergistically to further enhance the formulation's efficacy. Magnesium stimulates photosynthesis, thereby increasing plant cell resistance to thermal stress; calcium helps strengthen and oxygenate leaf and fruit cells, preventing skin cracking and promoting rapid suberization where cracks have already formed. Additionally, thanks to its glyco-amino acid component, KOVER is absorbed quickly and effectively and can serve as a carrier for foliar-applied products.

- Produces an anti-stress and anti-transpirant effect.
- Exerts a biostimulant action.
- Promotes vegetative recovery after periods of environmental stress.
- Prevents fruit cracking.

REGISTRATION

SIAN Registration No. 0014353/15

COMPOSITION (% w/w)

Water-soluble calcium oxide (CaO) 8
Water-soluble magnesium oxide (MgO) 2

PHYSICAL PROPERTIES

pH (1% solution) 5
Density (g/ml, 20°C) 1.32
Color Dark brown

FORMULATION

Soluble liquid

PACK SIZES

1 L bottle
5 L container
20 L container

PACKAGING

16 x 1 L packs
4 x 5 L packs
32 x 20 L packs

APPLICATION

Foliar
Root/Soil



1 L



5 L



20 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	1 or more applications as needed	800–1100 ml/100 L of water as a preventive measure before cold spells or frosts. 300–350 ml/100 L of water to prevent fruit cracking. 400–450 ml/100 L of water to achieve a biostimulant effect.
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 3 applications throughout the cycle	10 – 12 L/ha

Precautions: Shake the product well before use. Avoid mixing with strongly alkaline compounds, white oils, sulfur, polysulfides, or copper-based compounds. Conduct preliminary tests before mixing with other products. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between 5°C and 30°C.



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Letargy

MINERAL ACTIVATOR

EC FERTILIZER

NITROGEN FERTILIZER SOLUTION WITH CALCIUM

A mineral fertilizer solution designed for use with DESPERT on cherry, table grape, and kiwifruit crops to optimally support the plant during the metabolic reactivation triggered by the breaking of dormancy. In addition to foliar application, LETARGY is recommended for fertigation to optimize calcium and nitrogen supply across all soil types and seasons, thereby enhancing tissue firmness and fruit shelf life.

Combining the biostimulant DESPERT with its activator, LETARGY, addresses prolonged bud dormancy, delivering the following benefits for the specified crops:

- Uniform bud break.
- Earlier and uniform ripening.
- Uniform fruit size.
- Reduction in the number of harvesting passes.
- Increased production quality and quantity..

COMPOSITION (% w/w) Total
Nitrogen (N) 15.2
Ammoniacal Nitrogen (N) 5.3
Nitric Nitrogen (N) 8.8
Ureic Nitrogen (N) 1.1
Calcium Oxide (CaO) 6.6

PHYSICAL PROPERTIES

pH (1% solution) 7.2
Density (g/ml, 20°C) 1.35
Color Light yellow

FORMULATION

Liquid

PACKAGING

20 L container
1000 L tank

PACKING

32 x 20 L containers; 1000 L tank

APPLICATION

Foliar



20 L



1000 L

MODE OF USE	CULTURE	DOSES	WHEN TO APPLY IT
Foliar	Cherry tree	7 L/100 L of solution prepared with DESPERT	A single application of DESPERT 55–45 days before bud break.
	Table grapes	10-12L/100 L of solution prepared with DESPERT	
	Actinidia	10-12L/100 L of solution prepared with DESPERT	
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	20 – 30 L/ha	1–2 applications as needed

Precautions: The product must be applied exclusively with DESPERT. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Pego

Fruit-set promoter with anti-drop effect

ORGANIC NITROGEN FERTILIZER

FLUID YEAST EXTRACT CONTAINING BROWN ALGAE WITH CALCIUM, BORON, AND ZINC

PEGO is ideal for promoting fruit set by facilitating flower fertilization in perfect synergy with honeybees and bumblebees. The product is derived from a skillful blend of brown seaweed extracts, polysaccharides, amino acids, and other key natural constituents that encourage the activity of pollinating insects. Of particular note is the presence of proline—an osmoprotective amino acid with anti-stress properties—and propolis, a natural antibiotic with antibacterial, bacteriostatic, antifungal, antioxidant, disinfectant, and immunostimulant qualities. Thanks to the carrier effect of the amino acid component, the product is absorbed rapidly and effectively, ensuring fruit set even under unfavorable environmental conditions.

PEGO also exhibits a potent anti-drop effect, thanks to the auxins naturally present in the seaweed extracts; by suppressing the effects of ethylene, these auxins help reduce premature fruit drop as harvest approaches.

Calcium, boron, and zinc further enhance the formulation's efficacy. Boron promotes sugar and protein synthesis as well as pollen germination, thereby stimulating fruit set and tissue growth; zinc reduces flower abortion and fruit loss; and calcium—in addition to being a fundamental component of cell walls—directly influences the activity of phytohormones that regulate the plant's various growth stages.

- Facilitates flower fertilization.
- Promotes fruit set.
- Reduces post-set fruit drop.
- Provides essential amino acids that stimulate phytohormone production.
- Contains propolis to attract pollinating insects.
- Enables high yields and quality production.

REGISTRATION

SIAN Registration No.
0014345/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 1
Organic Carbon (C) 10
Water-soluble Calcium Oxide (CaO) 5
Water-soluble Boron (B) 0.2
EDTA-chelated Zinc (Zn) 0.15

PHYSICAL PROPERTIES

pH (1% solution) 5.7
Density (g/ml, 20°C) 1.16
Color Dark brown

FORMULATION

Soluble liquid

PACK SIZES

1 L bottle
5 L jug

PACKAGING

16 x 1 L packs
4 x 5 L packs

APPLICATION

Foliar
Root/Soil



1 L



5 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 applications before and during flowering	200 – 250 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 applications before and during flowering	5 – 8 L/ha

Precautions: The EDTA-chelated zinc micronutrient is stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



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Radiko

Activator of self-defense mechanisms



EC FERTILIZER

FLUID MIXTURE OF MICRO-NUTRIENTS WITH MANGANESE AND ZINC

RADIKO is a unique fertilizer that, when applied to the root system, helps plants maintain vigor and return to normal growth conditions by boosting root strength and stimulating the development of new roots. Formulated through a skillful blend of specific plant extracts, amino acids, peptides, polysaccharides, vitamins, polyphenols, organic matter, and minerals, the product simultaneously nourishes and strengthens the plant. Of particular note is the presence of tannins—which offer natural antioxidant properties—and saponins, which enhance the plant's resistance to attacks by pathogenic microorganisms.

The formulation is rounded out by EDTA-chelated manganese and zinc, which work synergistically with plant-derived nutrients to regulate the plant's phytohormone metabolism. Applying RADIKO triggers the emergence of new root hairs and young roots, leading to a resumption of vegetative growth and overall plant invigoration. The presence of amino acids essential for the rooting phase aids root system recovery by providing complete, consistent nutrition. This nutritional activity sustains adequate growth rates even in the presence of soil nematodes, ensuring rapid metabolic activation and improving both the quality and quantity of produce, resulting in fruit that achieves ideal size and color.

- Provides vitamins, amino acids, sugars, trace elements, tannins, and saponins.
- Strengthens and develops the root system and the entire plant.
- Increases crop yields.
- Supplies organic matter, promoting soil fertility.
- Stimulates the production of new root hairs, thereby increasing water and nutrient absorption capacity.
- Fortifies the root system, increasing resistance to nematodes.

REGISTRATION

SIAN Registry No. 0014360/15

COMPOSITION (% w/w)

Manganese (Mn) chelated with EDTA 1

Zinc (Zn) chelated with EDTA 1

PHYSICAL PROPERTIES

pH (1% solution) 4.5

Density (g/ml, 20°C) 1.25

Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle

6 kg jerrycan

20 kg jerrycan

SHIPPING UNIT

16 x 1 kg packs

4 x 6 kg packs

32 x 20 kg packs

APPLICATION

Soil application



1 kg



6 kg



20 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit crops Greenhouse and open-field vegetable crops Greenhouse and open-field ornamental crops Industrial crops	2–4 applications throughout the growing cycle. 1 application 10 days after transplanting for vegetable and ornamental crops. 1 application at the time of planting out young fruit trees/plants.	25–40 kg/ha on particularly exhausted soils. 8–12 kg/ha as a root stimulant and strengthener.

Precautions: The EDTA-chelated microelements Manganese and Zinc are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in a well-ventilated area at temperatures between +5°C and +35°C.



Revivo

Revitalizer for exhausted soils

NP 4-6.5 organo-mineral suspension fertilizer with zinc

Humus represents the most active component of soil organic matter. It consists of a complex mixture of polymerized substances with colloidal properties, formed through the decomposition and transformation—by soil microorganisms—of organic matter derived from the remains of plants and animals that lived in the soil. Humus modifies the soil's physical, chemical, and biological properties. Its role is to create and maintain soil structure, thereby establishing a reservoir of fertilizing nutrients in a form that plants can readily assimilate.

An adequate humus content is fundamental to satisfactory soil fertility. Conventional agriculture, characterized by intensive cultivation practices, can lead to the depletion of organic matter and a consequent reduction in physical fertility.

REVIVO is a specialized nutritional product designed to revitalize the fertility of soils exhausted by intensive cultivation. The addition of organic matter derived from special plant extracts nourishes soil microbiology, enabling the repopulation of microorganisms that trigger nutrient mineralization, thereby making nutrients more available to plants.

In addition to supplying key nutrients such as nitrogen and phosphorus, the formulation is enriched with zinc and specific amino acids that promote seed germination, stimulate the elongation of existing roots, and encourage the formation of new ones, fostering the development of a robust root system. Applying REVIVO regenerates and revitalizes the soil, rebalances microflora, restores soil fertility, and creates ideal conditions for optimal root development.

- Revitalizes “tired” soils by stimulating microbial activity.
- Improves the uptake of key nutrients.
- Boosts soil microflora activity, thereby increasing soil fertility.
- Promotes root development through organic stimulation and the action of zinc.

REGISTRATION

SIAN Registry No. 0014352/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 2.7
Ammoniacal Nitrogen (N) 1.3
Organic Carbon (C) 10
Phosphorus Pentoxide (P₂O₅) 6.5
Zinc (Zn) EDTA-chelated 0.12

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Density (g/ml, 20°C) 1.2
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

6 kg container
20 kg container

SHIPPING UNIT

4 x 6 kg containers
32 x 20 kg containers

APPLICATION

Soil application



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	1 – 2 annual applications	30 – 50 kg/ha

Precautions: The EDTA-chelated zinc micronutrient is stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.



www.tecnobell.eu

Shield

Endogenous defense promoter based on plant extracts

EC FERTILIZER

PK 11-7 FERTILIZER SUSPENSION WITH COPPER, MANGANESE, AND ZINC

SHIELD is a nutritional specialty based on plant extracts, brown algae, and minerals, designed to boost a plant's natural defense mechanisms. Thanks to its unique formulation—comprising oligosaccharides, amino acids, minerals, polyphenols, and vitamins—SHIELD nourishes the plant and stimulates the production of natural phytoalexins. These are defense compounds synthesized and accumulated by plants to enhance their resistance to attacks by pathogenic fungi and bacteria. The algae contained in the product are particularly significant; they are rich in growth-regulating substances—such as auxins, cytokinins, and gibberellins—as well as compounds that improve stress resistance, such as betaines.

The formulation is rounded out by the macronutrients phosphorus and potassium, along with the microelements copper, manganese, and zinc. These microelements are chelated with EDTA, ensuring rapid and effective absorption and helping plants overcome potential nutritional deficiencies.

With its plant-stimulating properties, SHIELD balances the plant's hormonal system, promoting rapid, healthy crop development and resulting in superior yields in terms of both quality and quantity.

- Induces the production of phytoalexins against pathogens and unfavorable soil-climatic conditions.
- Strengthens the leaf blade, thereby enhancing the plant's natural resistance to abiotic and biotic stresses.
- Improves overall plant health.
- Increases crop quality and yield.
- Particularly useful for application on grapevines, artichokes, and citrus fruits.

COMPOSITION (% w/w)

Phosphorus pentoxide (P₂O₅) 11
Potassium oxide (K₂O) 7
Copper (Cu) chelated with EDTA 0.5
Manganese (Mn) chelated with EDTA 0.5
Zinc (Zn) chelated with EDTA 0.5

PHYSICAL PROPERTIES

pH (1% solution) 6
Density (g/ml at 20°C) 1.2
Color Deep green

FORMULATION

Soluble liquid

PACK SIZES

1 L bottle
5 L jerrycan

PACKAGING

16 x 1 L bottles
4 x 5 L jerrycans

APPLICATION

Foliar
Root/Soil



1 L



5 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	150 – 200 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	4 – 5 L/ha

Precautions: The EDTA-chelated microelements copper, manganese, and zinc are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Shield Bio

Biopromoter of endogenous defenses based on plant extracts



EC FERTILIZER

FLUID MIXTURE OF MICRO-NUTRIENTS

SHIELD BIO is a specialty product based on plant extracts, brown algae, and minerals, designed to boost plants' natural defense mechanisms. Thanks to its unique formulation—containing oligosaccharides, amino acids, minerals, polyphenols, and vitamins—the product stimulates the production of phytoalexins; these are natural substances that make plants more resistant to attacks by pathogenic fungi and bacteria.

The formulation is rounded out by the micronutrients copper, manganese, and zinc. Chelated with EDTA, these elements are absorbed quickly and effectively, helping plants overcome potential nutritional deficiencies.

SHIELD BIO is a fertilizer suitable for organic farming, developed with a strong commitment to environmental protection and ecosystem health.

Thanks to its special formulation, SHIELD BIO strengthens plants against biotic and abiotic stresses, resulting in higher-quality and higher-quantity yields.

- Induces the natural production of phytoalexins.
- Strengthens the plant's natural resistance to abiotic and biotic stresses.
- Improves overall plant health.
- Treats and prevents micronutrient deficiencies.
- Increases crop quality and yield.
- Suitable for use in organic farming.

REGISTRATION

SIAN Registry No. 0014363/15

COMPOSITION (% w/w)

Copper (Cu) chelated with EDTA 1.2
Manganese (Mn) chelated with EDTA 0.6
Zinc (Zn) chelated with EDTA 0.6

PHYSICAL PROPERTIES

pH (1% solution) 6
Density (g/ml, 20°C) 1.2
Color Green

FORMULATION

Soluble liquid

PACKAGING

1 L bottle
5 L jug

OUTER PACKAGING

16 x 1 L packs
4 x 5 L packs

APPLICATION

Foliar
Root/Soil



1 L



5 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	200 – 250 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2 – 4 applications throughout the cycle	6 – 7 L/ha

Warnings: The EDTA-chelated microelements copper, manganese, and zinc are stable within a pH range of 4 to 11. Shake the product well before use. Use only where there is a recognized need. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



www.tecnobell.eu

Tamaño

Fruit size promoter



ORGANIC NITROGEN FERTILIZER

MIXTURE OF FLUID ORGANIC NITROGEN FERTILIZERS

TAMAÑO is a natural promoter designed to increase and standardize fruit size. The formulation is derived from a blend of selected organic matrices and seaweed extracts naturally rich in alginates, amino acids, vitamins, betaines, auxins, gibberellins, and cytokinins.

Working in synergy, auxins and gibberellins stimulate cell multiplication and elongation, promoting the growth of buds and fruit.

Cytokinins induce cell division and, in synergy with auxins, promote the rapid growth of plant organs.

Betaines enhance the plant's ability to withstand stress conditions, supporting it during the fruit growth phase.

Rapidly assimilated amino acids help the plant overcome oxidative stress and facilitate nutrient uptake.

Thanks to its special composition, TAMAÑO reduces harvest waste while increasing both the quality and quantity of the yield. It is suitable for use on fruit crops (table grapes, stone fruit, pome fruit, kiwifruit) and vegetable crops (melon, zucchini, cucumber, watermelon, tomato, pepper, eggplant).

- Stimulates cell division in young fruit through the supply of natural auxins, gibberellins, and cytokinins.
- Ensures cellular nutrition through the supply of organic nitrogen derived from amino acids.
- Combats cellular oxidation through the supply of natural betaines.
- Promotes and improves fruit uniformity and size.
- Does not alter fruit shape or shelf life.
- Balances physiological activities during ripening stages.
- Increases the value of the final produce.

REGISTRATION

SIAN Registration No.
0014347/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 5
Organic Carbon (C) 18

PHYSICAL PROPERTIES

pH (1% solution) 5.6
Density (g/ml, 20°C) 1.18
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan

OUTER PACKAGING

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	1 – 2 applications throughout the cycle	250 – 350 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	1 – 2 applications throughout the cycle	5 – 7 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C. Avoid mixing with products that are strongly alkaline or acidic.



Tioalga

Plant defense mechanism activator based on complexed sulfur



ORGANIC NITROGEN FERTILIZER

FLUID YEAST EXTRACT CONTAINING BROWN ALGAE AND SULPHUR

TIOALGA is a special formulation created by complexing micronized sulfur with amino acids of entirely plant origin and selected brown seaweed extracts. Of particular note is the presence of fully available betaine, which enhances the plants' ability to withstand soil and climatic stress as well as pathogens.

Applying the product offers several advantages:

- promotion of defense mechanisms against abiotic and biotic stress, thanks to the sulfur content;
- strengthening of the plant immune system, thanks to auxins, gibberellins, alginates, betaines, vitamins, and antioxidants naturally found in the seaweed;
- nutritional action, thanks to the organic nitrogen derived from amino acids.

The innovative "flowable" gel formulation—characterized by high stability—helps keep the sulfur in suspension, giving the product excellent wettability and adhesiveness while ensuring rapid, immediate assimilation. Furthermore, the gel consistency makes the product easier and more practical to use, while providing greater persistence and effectiveness through improved coverage.

Components included in the formulation:

- Plant-based amino acids: 4.5%
- Algae: 20%
- Betaines: 5%
- Sugars: 13%
- Humic extracts: 15%
- Organic matter: 24%
- Promotes defense mechanisms.
- Provides nourishment.
- Acts as a biostimulant.
- Supplies organic nitrogen derived entirely from plant-based amino acids.
- Improved wettability, adhesion (resistance to rain washout), and assimilation of all constituents, thanks to the innovative "flowable" gel formulation.

COMPOSITION (% w/w)

Organic Nitrogen (N) 1.2
Organic Carbon (C) 12
Total Sulfur (S) 24

PHYSICAL PROPERTIES

pH (1% solution) 6.9
Density (g/ml, 20°C) 1.35
Color Light brown

FORMULATION

Flowable

PACKAGING

1 kg bottle
6 kg container
25 kg container

SHIPPING PACK

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit and Vine Crops Vegetable Crops Ornamental Crops Industrial Crops	2–4 applications throughout the cycle	300 – 350 g/100 L of water
Radical	Fruit and Vine Crops Vegetable Crops Ornamental Crops Industrial Crops	2–4 applications throughout the cycle	12 – 14 kg/ha

Precautions: Shake well before use. Do not mix with alkaline-reacting products. Conduct a compatibility test before mixing with plant protection products or other fertilizers. Do not mix directly with humic acids or organic products. The product is stable under ordinary temperature and pressure conditions. Store at temperatures between 5°C and 30°C. The product is non-combustible.



Organics



Carbion

Protein hydrolysates with a biostimulant effect



ORGANIC NITROGEN FERTILIZERS

CARBION products are a range of liquid organic nitrogen fertilizers derived from enzymatically hydrolyzed animal epithelium. Their high content of free, readily assimilable amino acids makes them both nourishing and stimulating for key vegetative functions, such as photosynthesis, cellular respiration, and protein synthesis.

Thanks to this specific formulation, applying CARBION helps crops overcome growth challenges and promotes root system expansion—leading to greater uptake of nutrients supplied through fertilization—while boosting overall vegetative development and yield.

CARBION is also available with microelements fully chelated with EDTA, providing comprehensive, effective support throughout all stages of the crop cycle.

Furthermore, all CARBION products are suitable for organic farming, reflecting a strong commitment to environmental protection and ecosystem health.

Fertilizer	Chelating agent	Total nitrogen (N) %	Organic nitrogen (N) %	Organic carbon (C) %	Nr. SIAN
Carbion 6,5	---	6,5	6,5	20,7	0014357/15
Carbion 8	---	8	8	25	0014358/15
Carbion 8 TE	EDTA	8	8	25	0027218/19

% Microelements present in the formulations chelated with EDTA

Cu EDTA	Fe EDTA	Mn EDTA	Zn EDTA
0,002	0,02	0,01	0,002

Physicochemical properties

Fertilizer	Density(g/cm ³ , 20°C)	pH sol. 10 %	water solubility (%)	Color
Carbion 6,5	1,25	6	100	Amber
Carbion 8	1,27	6,5	100	Amber
Carbion 8 TE	1,27	6,5	100	Amber

Carbion

Protein hydrolysates with a biostimulant effect



- They exhibit biostimulant properties, enhancing nutrient uptake and assimilation.
- They improve plant tolerance to environmental stresses (salinity, drought, extreme temperatures).
- They improve produce quality.
- They indirectly influence plant growth by stimulating soil microflora and root formation.
- They support plant growth, particularly during periods of high metabolic demand (e.g., rapid growth rates, heavy fruit set).

FORMULATION

Soluble liquid

PACKAGING

Tank 6 kg
Tank 25 kg
Tank 1200 kg

4 packs of 6 kg, 32
containers of 25 kg,
1,200 kg tank

APPLICATION

Foliar
Radical



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200 – 250 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	30 – 40 kg/ha

Precautions: The EDTA-chelated microelements (copper, iron, manganese, and zinc) in CARBION 8Te are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store in a well-ventilated area at temperatures between +5°C and +30°C.



Fulvium

Soil nutrient based on humic and fulvic acids

Humic and fulvic acid complex

FULVIHUM is a complex of humic and fulvic acids with high biological activity, capable of increasing the soil's organic matter content.

The application of humic and fulvic acids is essential for intensively cultivated, humus-poor soils, where a lack of organic matter leads to salinization and calcification, resulting in a decline in beneficial microorganisms.

Humic acids are very long organic molecules that, due to their colloidal nature, "complex" large quantities of nutrients and transport them to the plants.

Fulvic acids are capable of neutralizing pesticide residues and toxic substances released by crop roots within the soil. They stimulate the plants' immune systems and increase their resistance to disease. They intensify photosynthetic processes, even under "short-day" conditions and during prolonged periods of cloud cover, and promote cell division and elongation.

- Improves the soil's microbiological, physical, and chemical characteristics.
- Boosts plant development, health, and root activity.
- Promotes beneficial microbial regeneration and reduces salinity in treated soils.
- Facilitates soil remediation by "immobilizing" toxic residues released by roots and promoting their subsequent degradation.
- Helps control excessive vegetative growth, keeping plants more "compact" and ensuring a better balance between the vegetative and reproductive phases.
- Thanks to its complexing and carrier capabilities, it ensures greater uptake of nutrients present in the soil and those from any fertilizers with which it is combined.

REGISTRATION

SIAN Registry No. 0018907/17

COMPOSITION (% w/w)

Organic nitrogen (dry basis) 0.7
Fulvic carbon (as-is) - C (FA) 1.6
Humic carbon (as-is) - C (HA) 6.0
Carbon/Nitrogen - C/N 40
Humification degree 80
Carbon isotopic ratio 24

PHYSICAL PROPERTIES

pH (1% solution) 10
Density (g/ml @ 20°C) 1.1
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

5 kg container
20 kg container
1100 kg tank

SHIPPING UNIT

4 x 5 kg containers
32 x 20 kg containers;
1100 kg tank

APPLICATION

Root application



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2-4 applications throughout the cycle	30 – 50 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests if mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.

Hemoel

Biostimulant with a greening effect



ORGANIC NITROGEN FERTILIZER LIQUID BLOOD

HEMOEL is a liquid organic nitrogen fertilizer based on bovine blood, produced via a low-temperature process that preserves hemoglobin proteins and their specific biological activity. Blood proteins serve as a source of readily available organic nitrogen, making HEMOEL an exceptional product for plant nutrition. Furthermore, thanks to the iron naturally complexed within the hemoglobin molecule, the product promotes iron uptake in plants, thereby counteracting iron chlorosis.

HEMOEL exerts a biostimulating and greening effect on vegetation, enhances flower and fruit color, and boosts soil fertility, ensuring vigorous growth for all plants.

- Greening effect.
- Improves plant tolerance to environmental stress.
- Increases soil fertility by stimulating soil microflora.
- Improves yield quality and quantity.

REGISTRATION

SIAN Registration No.
0014365/15

COMPOSITION (% w/w)

Total Nitrogen (N) 5
Organic Nitrogen (N) 5
Organic Carbon (C) 18

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Density (g/ml, 20°C) 1.1
Color Dark red

FORMULATION

Soluble liquid

PACKAGING

5 kg container
25 kg container
1100 kg tank

SHIPPING UNIT

4 x 5 kg containers
32 x 25 kg containers;
1100 kg tank

APPLICATION

Root application



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	20 – 30 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests if mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.



Humiplus

Humic Soil Activator

Humic extracts from leonardite

HUMIPLUS is a product containing humic acids extracted from American leonardite, distinguished by its homogeneity and uniformity. The humic acid extraction process and the quality of the source material ensure the final product is free from chlorine and sodium. HUMIPLUS effectively regenerates cultivated soils that have become depleted in organic matter due to intensive farming, erosion, or weather conditions.

Applying HUMIPLUS improves the soil's physical, chemical, and biological properties, thereby increasing productivity and fertility.

Thanks to the chelating action of the humic acids, micronutrients become more readily available, preventing micronutrient deficiencies.

HUMIPLUS stimulates rapid, abundant root system development and enhances plant resistance to stresses caused by reduced solubility, limited water availability, or low light levels, ultimately ensuring healthier, more abundant yields.

- Improves soil structure and fertility.
- Increases the bioavailability of nutrients.
- Increases micronutrient uptake by the roots.
- Improves produce quality.



REGISTRATION

SIAN Registry No. 0018908/17

Composition (% w/w)

Organic nitrogen (on dry matter) 0.7
Humified organic carbon (as % of total organic carbon) 60
Organic carbon (on dry matter) 35
Carbon/Nitrogen ratio (C/N) 50
Organic matter (as-is) 16
Humified organic matter (as % of dry organic matter) 93
Organic matter (on dry matter) 70

PHYSICAL PROPERTIES

pH (1% solution) 12
Density (g/ml, 20°C) 1.1
Color Black

FORMULATION

Soluble liquid

PACKAGING

5 kg container
20 kg container
1100 kg tank

SHIPPING UNIT

4 x 5 kg containers
32 x 20 kg containers;
1100 kg tank

APPLICATION

Root application

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	50 – 70 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store in a well-ventilated area at temperatures between +5°C and +30°C. Do not mix with acidic products or with products containing metals, sulfates, or phosphates.

Kel

SOIL REVITALIZER

**ORGANIC NITROGEN FERTILIZER
FLUID VINASSE**

KEL is a fully organic fertilizer derived from plant-based materials. It is rich in high-quality proteins and essential amino acids that are rapidly absorbed by plants through both foliage and roots. KEL has a high potassium content, which increases sugar levels in the fruit, promotes more uniform and vibrant coloration, and ensures natural, consistent fruit sizing.

The presence of readily available, plant-derived organic nitrogen—which is resistant to leaching—boosts the vegetative growth of treated crops. This makes the product particularly suitable for restoring the microbiological balance of soils that are saline or deficient in organic matter.

- Improves the soil's biological fertility, revitalizing it.
- Boosts plant vegetative activity.
- Improves produce quality.
- Has a revitalizing effect on soils low in organic matter.

REGISTRATION

SIAN Registry No. 0014359/15

COMPOSITION (% w/w)

Organic Nitrogen (N) 3
Potassium Oxide (K₂O) 6
Organic Carbon (C) 13
PHYSICAL PROPERTIES
pH (1% solution) 6.5
Density (g/ml, 20°C) 1.26
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

6 kg container
25 kg container
1200 kg tank

SHIPPING UNIT

4 x 6 kg containers
32 x 25 kg containers;
1200 kg tank

APPLICATION

Root
Foliar



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	60 – 80 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests if mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +30°C.



Meso-nutrients



Calcium C

Activator against bitter pit in apples



EC FERTILIZER

CALCIUM CHLORIDE SOLUTION

CALCIUM C is a liquid calcium-based fertilizer. It prevents and treats major physiological disorders (such as bitter pit, blossom-end rot, grapevine rachis necrosis, leaf scorch, cracking, etc.) caused by a deficiency of this element—an essential component of cell walls that provides mechanical strength and tissue firmness. Calcium translocation within the plant is limited; a deficiency in the fruit leads to serious disorders or dysfunctions, such as bitter pit and storage breakdown in apples, blossom-end rot in tomatoes, poor firmness, storage issues, and susceptibility to cracking and russetting.

Applications of CALCIUM C ensure adequate calcium levels in the fruit, helping to prevent or limit calcium-deficiency issues while promoting favorable qualitative and quantitative crop characteristics.

- Improves fruit quality parameters.
- Enhances root system development.
- Improves the mechanical strength of tissues.
- Highly assimilable via both foliage and roots.

REGISTRATION

SIAN Registration No.
0024484/18

COMPOSITION (% w/w)

Calcium oxide (CaO) 16%

PHYSICAL PROPERTIES

pH (1% solution) 7.02
Density (g/ml, 20°C) 1.3
Color: Colorless

FORMULATION

Soluble liquid

PACKAGING

1 L bottle
5 L container
20 L container

SHIPPING PACKS

16 x 1 L packs
4 x 5 L packs
32 x 20 L packs

APPLICATION

Foliar
Root/Soil



1 L



5 L



20 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	350 – 500 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	30 – 45 L/ha

Precautions: Do not mix with products containing alkaline phosphates or those that are excessively alkaline. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Calmag

Corrective treatment for physiological disorders caused by calcium and magnesium deficiencies.

Soil amendment

Mixed solutions of calcium and magnesium salts with molybdenum

CALMAG is a fertilizer based on calcium and magnesium salts, effective in preventing and treating physiological disorders caused by specific deficiencies of these two secondary nutrients.

The presence of magnesium and calcium in the proper ratio prevents antagonism between the two elements, which can otherwise lead to drying and necrosis in vegetable and fruit crops.

Calcium prevents disorders associated with calcium deficiency (such as bitter pit in apples, blossom-end rot in tomatoes, rachis drying in grapes, necrosis in lettuce, physiological drying in melons, and fruit cracking) while improving fruit quality, firmness, and shelf life. Magnesium stimulates chlorophyll formation and enhances photosynthetic activity, leading to higher sugar concentrations and more intense coloration in leaves and fruit.

The CALMAG formulation is rounded out by the presence of molybdenum; in addition to reducing the tendency for rachis drying, it promotes nitrate reductase activity, thereby reducing stress and counteracting free radicals.

CALMAG allows for rapid and effective intervention at any stage of the crop cycle, whether applied via foliar spray or fertigation.

- Corrects physiological disorders caused by calcium and magnesium deficiencies.
- Improves crop quality parameters.
- Recommended for use on fresh-cut produce.
- Highly assimilable via both foliage and roots.

REGISTRATION

SIAN Registry No. 0014355/15

COMPOSITION (% w/w)

Calcium oxide (CaO) 6%
Magnesium oxide (MgO) 7%
Molybdenum (Mo) 0.2%

PHYSICAL PROPERTIES

pH (1% solution) 5.3
Density (g/ml, 20°C) 1.4
Color Colorless

FORMULATION

Soluble liquid

PACKAGING

Bottle 1 L
Canister 5 L
Canister 20 L

SHIPPING UNIT

16 x 1 L packs
4 x 5 L packs
32 x 20 L packs

APPLICATION

Foliar
Root/Soil



1L



5 L



20 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	350 – 400 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	20 – 25 L/ha

Precautions: Do not mix with products containing alkaline phosphates or those that are excessively alkaline. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



www.tecnobell.eu

Calmix

Calcium absorption promoter



EC FERTILIZER

CALCIUM CHLORIDE SOLUTION WITH BORON

CALMIX is a liquid calcium-based fertilizer specifically designed to prevent and treat major physiological disorders caused by calcium deficiency (such as bitter pit in apples, rachis drying in grapevines, blossom-end rot in tomatoes, hollow heart in carrots, leaf tipburn in lettuce, strawberries, and cucurbits, and physiological drying in melons and watermelons). Calcium is essential for vegetative development, as it strengthens and thickens cell walls—thereby influencing the firmness and crispness of fruits and vegetables. Furthermore, it acts as an enzyme activator, regulates carbohydrate translocation, and balances the uptake of other cations such as sodium, potassium, ammonium, and magnesium. However, calcium often exists in the growing medium in a form that is virtually immobile and difficult for the plant to absorb. CALMIX enhances the bioavailability of this element, promoting rapid and effective uptake. This is achieved through the synergistic action of boron, which facilitates the translocation of calcium within plant tissues.

- Confers greater mechanical strength on cells and tissues.
- Reduces susceptibility to damage.
- Improves fruit quality parameters.
- Enhances the shelf life and quality of the produce.
- Highly assimilable via both foliage and roots.

REGISTRATION

SIAN Registration No.
0014364/15

COMPOSITION (% w/w)

Calcium oxide (CaO) 12%
Boron (B) 0.2%

PHYSICAL PROPERTIES

pH (1% solution) 7.33
Density (g/ml, 20°C) 1.16
Color Colorless

FORMULATION

Soluble liquid

PACKAGING

1 L bottle
5 L container
20 L container

SHIPPING PACK

16 x 1 L packs
4 x 5 L packs
32 x 20 L packs

APPLICATION

Foliar
Root/Soil



1 L



5 L



20 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	500 – 600 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	7 – 10 L/ha

Precautions: Do not mix with products containing alkaline phosphates or those that are excessively alkaline. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Idro Ca/Fe

Strengthening and greening activator

EC FERTILIZER

CALCIUM NITRATE SOLUTION WITH IRON (EDTA)

IdRO Ca/Fe is a calcium nitrate solution enriched with EDTA-chelated iron.

The calcium supply contributes to healthy plant growth by improving tissue firmness and strengthening cell walls.

Furthermore, the EDTA-chelated iron is more stable in the soil—making it rapidly assimilable—and helps prevent leaf yellowing.

IdRO Ca/Fe enhances crop quality standards by improving the color and shelf life of the produce.

- Increases tissue strength.
- Maximum component purity; free from chlorine, sodium, and other toxic or detrimental elements.
- Improves fruit quality parameters.
- Enhances produce quality and shelf life.

COMPOSITION (% w/w)

Total Nitrogen (N) 8%
Nitric Nitrogen (N) 8%
Calcium Oxide (CaO) 14%
Iron (EDTA) 0.04%

PHYSICAL PROPERTIES

pH (1% solution) 4.5
Density (g/ml, 20°C) 1.4
Color Ocher yellow

FORMULATION

Soluble liquid

PACKAGING

6 kg container
25 kg container
1400 kg tank

PACKING

4 x 6 kg containers
32 x 25 kg containers;
1400 kg pallet

APPLICATION

Root application



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	60 – 100 kg/ha

Precautions: The iron micronutrient, chelated with EDTA, is stable within a pH range of 4 to 11. Do not mix with products containing alkaline phosphates or those with excessive alkalinity or acidity. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



www.tecnobell.eu

Idro Ca/Mg

CATALYST IN THE TREATMENT OF PHYSIOPATHIES

EC FERTILIZER

CALCIUM NITRATE SOLUTION WITH MAGNESIUM

IDRO Ca/Mg is a liquid fertilizer designed to prevent and treat calcium and magnesium deficiencies. The balanced ratio of these two secondary nutrients helps prevent and treat serious physiological disorders, such as blossom-end rot in tomatoes and peppers, marginal necrosis in lettuce, heart rot (tip burn) in escarole, blackheart and cracking in celery and fennel, bitter pit in apples, and physiological drying of melons and grapevine rachises.

Calcium enhances tissue strength, boosts productivity, and improves post-harvest shelf life.

Magnesium acts as an enzymatic activator for photosynthetic processes and plays a key role in sugar and protein formation.

IDRO Ca/Mg promotes optimal calcium transport into plant tissues, ensuring robust, full crop development and a harvest with superior shelf life.

- Increases tissue strength.
- Maximum component purity; free from chlorine, sodium, and other toxic or detrimental elements.
- Improves fruit quality parameters.
- Enhances produce quality and shelf life.

COMPOSITION (% w/w)

Total Nitrogen (N) 10%
Nitric Nitrogen (N) 9%
Ammoniacal Nitrogen (N) 1%
Calcium Oxide (CaO) 9%
Magnesium Oxide (MgO) 4%

PHYSICAL PROPERTIES

pH (1% solution) 6.7
Density (g/ml, 20°C) 1.38
Color Colorless

FORMULATION

Soluble liquid

PACKAGING

6 kg container
25 kg container
1400 kg tank

SHIPPING UNIT

4 x 6 kg containers
32 x 25 kg containers
1400 kg pallet

APPLICATION

Root application



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	80 – 100 Kg/ha

Precautions: Do not mix with products containing alkaline phosphates or those that are excessively alkaline. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Kelat Mg

Catalyst for photosynthetic processes

EC FERTILIZER MAGNESIUM CHLORIDE SOLUTION

KELAT Mg is a magnesium-based solution enriched with citric acid and EDTA; these agents complex and transport the magnesium, thereby enhancing its assimilation. Magnesium is an essential plant nutrient and the central component of chlorophyll. Adequate magnesium nutrition maximizes photosynthetic efficiency, resulting in greener, more vibrant leaves — neutralizes free radicals produced during photosynthesis (making plants more resilient to oxidative stress), and ensures proper sugar distribution throughout the plant while stimulating root growth.

- Prevents and treats chlorosis caused by a deficiency of this secondary nutrient.
- Higher yields and superior quality.
- Effective at any stage of the crop cycle.
- Suitable for both foliar application and fertigation.

COMPOSITION (% w/w)

Magnesium oxide (MgO) 13%

PHYSICAL PROPERTIES

pH (1% solution) 5.2

Density (g/ml, 20°C) 1.3

Color Mint green

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle

6 kg container

25 kg container

1300 kg tank

SHIPPING UNIT

16 x 1 kg packs

4 x 6 kg packs

32 x 25 kg packs / 1300 kg

pallet

APPLICATION

Foliar

Root/Soil



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	25 – 30 kg/ha

Precautions: Avoid mixing with strongly alkaline products. Shake the product well before use. Conduct preliminary tests if mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Idromag Micro

Nutrient with a greening effect



EC FERTILIZER

Magnesium sulphate with boron, manganese and zinc

IDROMAG MICRO is a fertilizer based on high-purity, highly soluble magnesium sulfate, enriched with microelements.

Magnesium is an essential element in the plant growth cycle; it plays a key role in photosynthesis by maximizing chlorophyll production, neutralizes free radicals—thereby increasing plant resistance to oxidative stress—and ensures proper sugar distribution while stimulating root growth.

The formulation is rounded out by the microelements boron, manganese, and zinc; working synergistically with magnesium, they prevent nutritional deficiencies, making the product both comprehensive and effective.

IDROMAG MICRO allows for rapid, effective application at any stage of the crop cycle, whether via foliar spray or fertigation, ensuring high yields and superior quality produce.

- Prevents physiological disorders caused by magnesium deficiency.
- Promotes and intensifies the green coloration of leaves.
- Improves crop quality parameters.
- Highly assimilable via both foliage and roots.

COMPOSITION (% w/w)

Magnesium oxide (MgO) 15%
Magnesium sulfate (SO₃) 30%
Boron (B) 0.2%
Manganese (Mn) 0.5%
Zinc (Zn) 0.8%

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Solubility 100%
Color Orange

FORMULATION

Soluble crystals

PACKAGING

25 kg bag

APPLICATION

Foliar
Root/Soil



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	15 – 30 kg/ha

Precautions: Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. Store the product in well-ventilated areas.



Magnecal

IMPROVER OF FRUIT TEXTURE AND SHELF LIFE

CORRECTIVE AGENT

MIXED SOLUTIONS OF CALCIUM AND MAGNESIUM SALTS

MAGNECAL is a liquid fertilizer based on calcium and magnesium complexed with ammonium lignosulfonate—an organic lignin molecule capable of penetrating the leaf cuticle and transporting these two elements into plant tissues, making them readily available to correct physiological disorders caused by deficiencies.

Calcium strengthens cell walls, enhancing tissue mechanical resistance and improving fruit quality, firmness, and shelf life.

Magnesium stimulates chlorophyll formation and enhances photosynthetic activity, promoting higher sugar levels and more intense coloration in leaves and fruit.

MAGNECAL allows for rapid and effective application at any stage of the crop cycle, whether via foliar spray or fertigation.

- Corrects physiological disorders caused by calcium and magnesium deficiencies.
- Increases the sugar content of the fruit.
- Improves the shelf life of the produce.
- Highly assimilable via both foliage and roots.

REGISTRATION

SIAN Registry No. 0014354/15

COMPOSITION (% w/w)

Calcium oxide (CaO) 12%

Magnesium oxide (MgO) 4%

PHYSICAL PROPERTIES

pH (1% solution) 7.2

Density (g/ml, 20°C) 1.34

Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 L bottle

5 L jug

SHIPPING CARTON

16 x 1 L bottles

4 x 5 L jugs

APPLICATION

Foliar

Root/Soil



1 L



5 L

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	300 – 500 ml/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	20 – 25 L/ha

Precautions: Do not mix with products containing alkaline phosphates or those that are excessively alkaline. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



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Micro-nutrients



Borium

Boron complexed with ethanolamine



EC FERTILIZER BORON ETHANOLAMINE

BORIUM is a liquid fertilizer containing boron complexed with ethanolamine, specifically designed to prevent and treat boron deficiencies.

The complexing and carrier action of ethanolamine facilitates the absorption and translocation of boron within plant tissues, making it rapidly available to plant organs suffering from a deficiency. Boron promotes flower fertility—resulting in improved fertilization—catalyzes key enzymatic activities such as protein and lipid synthesis, and enhances sugar translocation. Thanks to its special formulation, BORIUM ensures balanced vegetative development across all crops, resulting in harvests of superior size and quality.

- High boron content with maximum component purity.
- Complete water solubility and rapid uptake via both roots and foliage.
- Improved fruit sugar content.
- Maximum fruit set, ensuring optimal pollen fertility.
- Enhanced tissue elasticity, preventing fruit cracking.
- Harvests with superior fruit size and quality.

REGISTRATION

SIAN Registration No.
0014362/15

COMPOSITION (% w/w)
Complexed Boron (B) 11

PHYSICAL PROPERTIES
pH (1% solution) 8.7
Density (g/ml, 20°C) 1.38
Color Light yellow

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan

SHIPPING

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	2–4 applications throughout the cycle	150 – 200 g/100 L of water
Radical	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	2–4 applications throughout the cycle	5 – 6 kg/ha

Precautions: Do not mix with products containing alkaline phosphates or those that are excessively alkaline. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store in a well-ventilated area at temperatures between +5°C and +30°C.



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Drip Mix

Solid mixture of EDTA-chelated microelements



EC FERTILIZER

Solid mixture of EDTA-chelated microelements with magnesium

DRIP MIX is a solid blend of EDTA-chelated microelements designed to prevent and treat physiological disorders and nutritional imbalances caused by micronutrient deficiencies. These deficiencies typically manifest as leaf yellowing and desiccation, stunted growth, and impaired flowering and fruiting. Microelements play a vital role in plant life, serving as essential components of the enzymes that catalyze all stages of the plant's growth cycle.

The blend is highly balanced, ensuring rapid absorption—whether via foliage or roots—and delivering immediate results. DRIP MIX is also enriched with magnesium; as the central component of chlorophyll, magnesium promotes the synthesis, transport, and storage of key plant constituents such as carbohydrates, proteins, and lipids.

Thanks to its balanced supply of microelements, DRIP MIX supports plants struggling with poor development, prevents and corrects damage caused by micronutrient deficiencies, and ensures higher-quality yields with larger produce.

- Treats and prevents damage caused by micro-nutrient deficiencies.
- Fully water-soluble and rapidly assimilated by both roots and foliage.
- Improves the organoleptic qualities of the fruit.
- Suitable for fertigation in greenhouses and open-field cultivation of vegetable, ornamental, fruit, and industrial crops.

REGISTRATION

SIAN Register No. 0015962/16

COMPOSITION (% w/w)

Boron (B) 3
Copper (Cu) EDTA 1.3
Iron (Fe) EDTA 2.8
Manganese (Mn) EDTA 3
Molybdenum (Mo) 0.12
Zinc (Zn) EDTA 1.4
Magnesium oxide (MgO) 3

PHYSICAL PROPERTIES

pH (1% in solution) 7
Color Green

FORMULATION

Soluble microgranules

PACKAGING

1kg bag
5kg bag

20 packs of 1 kg
4 packs of 5 kg

APPLICATION

Foliar
Radical



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	Distributions throughout the cycle based on identified needs	50 g/100 L of water for open-field use 50 g/100 L of water for greenhouse use
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	Distributions throughout the cycle based on identified needs	1 – 2 kg/ha

Warnings: The EDTA-chelated microelements—copper, iron, manganese, and zinc—are stable within a pH range of 4 to 11. Use only where there is a recognized need. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Idhamix

Solid mixture of microelements chelated with IDHA



EC FERTILIZER

Solid mixture of micro-nutrients chelated with IDHA

IDHAMIX is a solid blend particularly suitable for both conventional and organic agriculture; it is designed to prevent and treat physiological disorders and nutritional imbalances caused by a lack or unavailability of key plant micronutrients.

The IDHA (iminodisuccinate) chelating agent is fully biodegradable and serves as an alternative to traditional agricultural chelating agents (such as EDTA, DTPA, EDDHA, etc.), which biodegrade slowly and pose a risk of accumulation in the environment, water, and soil. Furthermore, the small size of the IDHA chelating molecule makes these formulations ideal for foliar absorption, ensuring high agronomic efficacy and safety in use.

- Treats and prevents damage caused by micro-nutrient deficiencies.
- Fully water-soluble and rapidly assimilated by both roots and foliage.
- Promotes balanced plant development.
- Chelated with IDHA, a fully biodegradable chelating agent.
- Improves nutrient absorption capacity.
- Enhances fruit size and organoleptic qualities.

REGISTRATION

SIAN Registration No.
0024661/18

COMPOSITION (% w/w)

Complexed Boron (B) 0.7;
IDHA Copper (Cu) 0.3;
IDHA Iron (Fe) 3;
IDHA Manganese (Mn) 3;
IDHA Zinc (Zn) 2.6

PHYSICAL PROPERTIES

pH (1% solution) 5;
Color: Gray

FORMULATION

Soluble microgranules

PACKAGING

1 kg bag
5 kg bag

SHIPPING PACKS

20 x 1 kg packs
4 x 5 kg packs

APPLICATION

Foliar
Root/Soil



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	Distributions throughout the cycle based on identified needs	50 g/100 L of water for open-field use 50 g/100 L of water for greenhouse use
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	Distributions throughout the cycle based on identified needs	1 – 2 kg/ha

Precautions: The microelements copper, iron, manganese, and zinc, chelated with IDHA, are stable within a pH range of 4 to 8. Use only where there is a recognized need. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Kelat Ca/B/Zn

Calcium complex with boron and zinc



EC FERTILIZER

FLUID MIXTURE OF MICRO-ELEMENTS ENRICHED WITH CALCIUM

KELAT Ca/B/Zn is a fluid mixture of microelements enriched with calcium, designed to prevent and treat physiological disorders in various crops caused by calcium deficiency resulting from poor assimilation or limited availability of the element.

The inclusion of specific plant extracts with wetting properties prevents the fertilizer solution from drying out on the leaves, thereby extending the absorption time for the supplied nutrients.

The product is recommended for resolving and preventing major physiological disorders associated with calcium deficiency (such as bitter pit in apples, rachis drying in grapevines, blossom-end rot in tomatoes, hollow heart in carrots, leaf tipburn in lettuce, strawberries, and cucurbits, and physiological drying in melons and watermelons).

KELAT Ca/B/Zn enhances calcium bioavailability, promoting rapid and effective absorption.

Furthermore, thanks to the synergistic action of boron and zinc, the product promotes flowering, helps prevent micro-nutrient deficiencies caused by physiological and environmental stress, and supports the resumption of vegetative growth.

- Confers greater mechanical strength on cells and tissues.
- Promotes flowering.
- Improves fruit quality parameters.
- Enhances the shelf life and quality of the produce.

REGISTRATION

SIAN Registration No.
0016588/16

COMPOSITION (% w/w)

Boron (B) 2
Zinc (Zn) EDTA 0.2
Calcium oxide (CaO) 8

PHYSICAL PROPERTIES

pH (1% solution) 7.60
Density (g/ml, 20°C) 1.3
Color Brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan

SHIPPING CARTONS

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 distributions throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 distributions throughout the cycle	5 – 10 kg/ha

Precautions: Avoid mixing with strongly alkaline products, phosphates, or sulfates. The EDTA-chelated zinc micronutrient is stable within a pH range of 4 to 11. Use only where there is a recognized need. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store in a well-ventilated area at temperatures between +5°C and +35°C.



Kelat (Cu, Fe, Mn, Zn)

CHELATED MICROELEMENTS (EDTA / IDHA)



EC FERTILIZER

Micro-elements chelated with EDTA and IDHA

KELAT is a comprehensive range of EDTA- or IDHA-chelated single microelements designed to treat and prevent micronutrient deficiencies. Because they are chelated, they remain readily available for crop uptake, ensuring effective nutritional action even in calcareous soils with high pH levels or when using hard water.

Microelements are essential nutrients for plant physiology; they act as catalysts for numerous vital functions and are integral components of specific enzymes and coenzymes. Consequently, deficiencies lead to metabolic disturbances that impair plant growth or the functionality of specific plant organs.

Iron and manganese are constituents of various enzymes and regulate numerous biochemical processes, such as chlorophyll synthesis, photosynthesis, and cellular respiration. Zinc is involved in the synthesis of amino acids and auxins, while copper promotes protein synthesis.

The chelating agent IDHA (iminodisuccinate) is fully biodegradable, offering an alternative to traditional agricultural chelating agents (such as EDTA, DTPA, and EDDHA), which are slow to biodegrade and pose a risk of accumulation in the environment, water, and soil. Furthermore, the small size of the IDHA chelating molecule makes these formulations ideal for foliar absorption, ensuring high agronomic efficacy and safe use.

Fertilizer	Chelating agent	water soluble microelements %	chelated fraction %	total microelement %	Nr. SIAN
Kelat Cu EDTA	EDTA	15	100	15	0018910/17
Santa Fe EDTA	EDTA	13	100	13	0018909/17
Kelat Mn EDTA	EDTA	13	100	13	0018912/17
Kelat Zn EDTA	EDTA	15	100	15	0018911/17
Kelat Cu IDHA	IDHA	10	100	10	0025675/19
Kelat Fe IDHA	IDHA	9	100	9	0025676/19
Kelat Mn IDHA	IDHA	9	100	9	0025677/19
Kelat Zn IDHA	IDHA	10	100	10	0025674/19

Physicochemical properties

Fertilizer	Solubility at 20°C g/L	pH sol. 1 %	Conductivity (1 %) mS/cm 18° C	Color
Kelat Cu EDTA	1200	4,5	0,5	Blue
Santa Fe EDTA	900	4,5	0,5	Ochre yellow
Kelat Mn EDTA	800	5	0,4	Light pink
Kelat Zn EDTA	1000	5	0,4	White
Kelat Cu IDHA	650	7	0,5	Blue
Kelat Fe IDHA	730	5,5	0,7	Brown
Kelat Mn IDHA	600	5	0,6	pink
Kelat Zn IDHA	1200	7,5	0,7	White

Kelat (Cu, Fe, Mn, Zn)

CHELATED MICROELEMENTS (EDTA / IDHA)



- Treat and prevent damage caused by micronutrient deficiencies.
- Contain micronutrients chelated with IDHA for superior biodegradability.
- Free from impurities.
- Highly water-soluble.
- Rapidly assimilated via foliage and roots.
- Improves the organoleptic qualities of the fruit.
- Produces crops of superior size and quality.

FORMULATION

Soluble microgranules

PACKAGING

1 kg bag

5 kg bag

20 x 1 kg packs,

4 x 5 kg packs

APPLICATION

Foliar

Radical



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	Distributions throughout the cycle based on identified needs	50 g/100 L of water for open-field use 50 g/100 L of water for greenhouse use
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	Distributions throughout the cycle based on identified needs	1 – 2 kg/ha

Warnings: EDTA-chelated microelements are stable within a pH range of 4 to 11. IDHA-chelated microelements are stable within a pH range of 4 to 8. Use only where there is a recognized need. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Kelat Mix

Fluid mixture of microelements

EC FERTILIZER

FLUID MIXTURE OF MICRO-NUTRIENTS

KELAT MIX is a liquid blend of microelements that are rapidly and completely assimilated via both foliar and root uptake.

Microelements play a fundamental role in plant life, serving as essential constituents of the enzymes that catalyze all stages of the growth cycle.

Boron is involved in reproduction; manganese, copper, and iron—components of chlorophyll—participate in photosynthesis; zinc is involved in plant hormone production; and molybdenum is utilized for nitrogen fixation.

Thanks to its balanced supply of microelements, KELAT MIX is particularly suitable for supporting plants showing signs of poor development and for preventing and treating micro-nutrient deficiencies across all crops.

- Treats and prevents damage caused by micro-nutrient deficiencies.
- Fully water-soluble; rapidly assimilated by both roots and foliage.
- Improves the organoleptic qualities of the fruit.
- Produces crops of superior size and quality.

COMPOSITION (% w/w)

Boron (B) 0.3
Copper (Cu) 0.5
Iron (Fe) EDTA 1
Manganese (Mn) 1
Molybdenum (Mo) 0.02
Zinc (Zn) 1

PHYSICAL PROPERTIES

pH (1% solution) 6.60
Density (g/ml, 20°C) 1.10
Color Deep green

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan

SHIPPING PACK

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	2–4 applications throughout the cycle	200 – 350 g/100 L of water
Radical	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	2–4 applications throughout the cycle	5 – 8 kg/ha

Warnings: The microelements copper and iron, chelated with EDTA, are stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



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Kelat Mix Lsa

Fluid mixture of chelated microelements

EC FERTILIZER

FLUID MIXTURE OF COMPLEXED MICRO-NUTRIENTS

KELAT MIX LSA is a liquid blend of complexed microelements designed for rapid and complete assimilation via both foliar and root uptake. Thanks to its special formulation, the product effectively transports microelements into the plant's vascular system, making them readily available to all plant organs. KELAT MIX LSA is particularly recommended for supporting plants showing signs of poor development and for preventing or treating micro-nutrient deficiencies across all crops. Additionally, the inclusion of magnesium stimulates chlorophyll production and enhances photosynthetic activity, leading to higher sugar concentrations and more intense coloration in leaves and fruit.

- Treats and prevents damage caused by micro-nutrient deficiencies.
- Fully water-soluble; rapidly absorbed by both roots and foliage.
- Stimulates photosynthetic activity.
- Improves the organoleptic qualities of the fruit.
- Results in larger, higher-quality harvests.

COMPOSITION (% w/w)

Boron (B) 0.4
Copper (Cu) 0.5
Iron (Fe) EDTA 0.3
Manganese (Mn) 0.4
Molybdenum (Mo) 0.05
Zinc (Zn) 1
Magnesium oxide (MgO) 2

PHYSICAL PROPERTIES

pH (1% solution) 4.7
Density (g/ml, 20°C) 1.15
Color Dark brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan

SHIPPING CARTONS

16 x 1 kg packs
4 x 6 kg packs

APPLICATION

Foliar
Root/Soil



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	5 – 8 kg/ha

Precautions: The EDTA-chelated iron micronutrient is stable within a pH range of 4 to 11. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Kelat Mn/Zn

Manganese and zinc complex



EC FERTILIZER

FLUID MIXTURE OF MICRO-NUTRIENTS BASED ON MANGANESE AND ZINC

KELAT Mn/Zn is a blend of microelements complexed with specific plant extracts capable of rapidly penetrating the leaf cuticle and transporting the microelements into plant tissues, making them readily available to correct physiological disorders caused by deficiencies.

The plant extracts' unique wetting action prevents the fertilizer solution from drying out on the leaves, thereby extending the absorption time for the supplied microelements.

Manganese is essential for protein synthesis and sugar formation.

Zinc acts as a catalyst for the synthesis of plant hormones—including auxins—which stimulate root growth and, more generally, the plant's vegetative and productive development.

Thanks to its special formulation, KELAT Mn/Zn promotes balanced plant growth, resulting in higher yields of superior quality and quantity.

- Complete water solubility and rapid assimilation via both roots and foliage.
- Increased fruit firmness.
- Enhanced fruit coloration, weight, and organoleptic qualities.
- Harvests with superior size and quality.

REGISTRATION

SIAN Registration No.
0015970/16

COMPOSITION (% w/w)

Manganese (Mn) 3.5

Zinc (Zn) 3.5

PHYSICAL PROPERTIES

pH (1% solution) 5.5

Density (g/ml, 20°C) 1.27

Color Brown

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle

6 kg container

SHIPPING CARTON

16 x 1 kg packs

4 x 6 kg packs

APPLICATION

Foliar

Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Frutticole/Agrumi Orticole Floricole Colture industriali	1 – 2 applications throughout the cycle	200 – 250 g/100 L of water
Radical	Frutticole/Agrumi Orticole Floricole Colture industriali	1 – 2 applications throughout the cycle	3 – 5 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Kelat Mo

Molybdenum-based solution



EC FERTILIZER

MOLYBDENUM-BASED FERTILIZER SOLUTION

KELAT Mo is a fertilizer solution designed to prevent and treat all molybdenum deficiencies. Thanks to its special formulation, the product is rapidly absorbed through both leaves and roots, allowing for the quick translocation of molybdenum within the plant's vascular system; this ensures it reaches all plant organs affected by the deficiency—organs that would otherwise exhibit stunted growth, malformations, discoloration, leaf necrosis, poor flowering, and low yields.

Molybdenum is a crucial trace element in the plant nitrogen cycle. It is an essential component of the nitrate reductase enzyme, which facilitates the reduction of nitrate ions, thereby promoting the transformation of mineral nitrogen into organic nitrogen (necessary for the synthesis of amino acids and proteins).

Regular applications of KELAT Mo result in a significant reduction of nitrate levels at harvest. Its use is therefore recommended for lettuce and fresh-cut produce, particularly during the winter months when daylight hours and light intensity are reduced.

- Treats and prevents damage caused by molybdenum micro-deficiency.
- Fully water-soluble and readily assimilated via both root and foliar application.
- Stimulates nitrate reductase enzyme activity, reducing nitrate accumulation at harvest.
- Recommended for use on fresh-cut produce.

REGISTRATION

SIAN Registry No. 0015961/16

COMPOSITION (% w/w)

Molybdenum (Mo) 6

PHYSICAL PROPERTIES

pH (1% solution) 5.2

Density (g/ml, 20°C) 1.25

Color Colorless

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle

6 kg jerrycan

OUTER PACKAGING

16 x 1 kg packs

4 x 6 kg packs

APPLICATION

Foliar

Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit crops Vegetable crops / Fresh-cut produce / Lettuce / Floriculture Industrial crops	2 – 4 applications throughout the cycle	70 – 100 g/100 L of water
Radical	Fruit crops Vegetable crops / Fresh-cut produce / Lettuce / Floriculture Industrial crops	2 – 4 applications throughout the cycle	1 – 2 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Koper 20 flow

Fluid mixture of microelements



EC FERTILIZER

FLUID MIXTURE OF MICRO-NUTRIENTS

KOPER 20 FLOW is a liquid fertilizer based on copper oxychloride and manganese, designed for rapid and complete assimilation via both foliage and roots.

Copper stimulates the plant's cellular regeneration processes and serves as a component of numerous catalytic enzymes essential for boosting and strengthening the natural defenses of all plants.

Manganese plays a key role in photosynthesis, enzyme production, and vitamin C formation, helping to restore a healthy green color to plant tissues.

Applying KOPER 20 FLOW improves the plant's overall health, enabling it to better withstand stress caused by both biotic and abiotic factors.

- Treats and prevents damage caused by copper and manganese micro-deficiencies.
- Supplies micro-elements essential for plant development.
- Stimulates and strengthens the plant's natural defenses.
- Reduces imbalances caused by nutritional deficiencies.

REGISTRATION

SIAN Registry No. 0023683/20

COMPOSITION (% w/w)

Copper (Cu) 20

Manganese (Mn) 0.5

PHYSICAL PROPERTIES

pH (1% solution) 6.5

Density (g/ml, 20°C) 1.3

Color Blue

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle

6 kg jerrycan

OUTER PACKAGING

16 x 1 kg packs

4 x 6 kg packs

APPLICATION

Foliar

Root/Soil



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2 – 4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2 – 4 applications throughout the cycle	3 – 5 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Micromix Sol

Solid mixture of microelements



EC FERTILIZER

SOLID MIXTURE OF MICRO-NUTRIENTS

MICROMIX SOL is a highly concentrated complex of essential microelements designed to prevent and treat physiological disorders and nutritional imbalances that can affect plants throughout their growth cycle—conditions typically manifesting as leaf yellowing or withering, as well as impaired development, flowering, and fruiting.

Thanks to its special sulfur-rich formulation, the product also provides preventive action against fungi and bacteria.

MICROMIX SOL boosts the overall metabolism of all plants, enabling them to withstand various forms of environmental stress while enhancing crop yields by optimizing the organoleptic qualities of the fruit (color, flavor, sugar content, size, and shelf life).

- Treats and prevents damage caused by micronutrient deficiencies.
- Promotes balanced plant development.
- Provides preventive action against fungal diseases, thanks to the presence of sulfur.
- Improves nutrient absorption capacity.
- Enhances the organoleptic qualities and size of the fruit.

REGISTRATION

SIAN Registry No. 0023686/18

COMPOSITION (% w/w)

Boron (B) 2.5
Copper (Cu) 1.5
Manganese (Mn) 15.7
Molybdenum (Mo) 1
Zinc (Zn) 9.3

PHYSICAL PROPERTIES

pH (1% solution) 5.5
Color Turquoise-grey

FORMULATION

Soluble microgranules

PACKAGING

1 kg bag
5 kg bag

SHIPPING CARTON

20 x 1 kg packs
4 x 5 kg packs

APPLICATION

Foliar
Root/Soil



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit crops/Kiwifruit, Vegetable crops Ornamental crops Industrial crops	1 – 2 applications throughout the cycle	50 – 70 g/100 L of water
Radical	Fruit crops/Kiwifruit, Vegetable crops Ornamental crops Industrial crops	1 – 2 applications throughout the cycle	2 – 3 kg/ha

Precautions: Use only when there is a recognized need. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Rame 30

Copper oxychloride-based defense process activator



EC FERTILIZER

SOLID MIXTURE OF MICRO-NUTRIENTS

RAME 30 is used to prevent and treat copper deficiencies. This element, which is essential for chlorophyll formation, plays a key role in carbohydrate and protein metabolism and serves as a component of numerous catalytic enzymes vital for stimulating and strengthening the natural defenses of all plants.

Furthermore, the presence of boron promotes fruit set; specifically, the product is suitable for use on grapevines and olive trees, as it reduces olive drop and improves grape cluster formation.

Magnesium is an essential component of chlorophyll, as well as of pectin, phytin, and certain enzymes. It also plays a role in fat metabolism and the regulation of osmotic pressure. Regular use of RAME 30 helps ensure healthier, stronger plants.

- Treats and prevents damage caused by copper micro-deficiencies.
- Supplies micro-elements essential for plant development.
- Provides secondary action against fungal diseases.
- Reduces imbalances caused by nutritional deficiencies.

REGISTRATION

SIAN Registration No.
0014361/15

COMPOSITION (% w/w)

Boron (B) 0.2
Copper (Cu) 30
Magnesium oxide (MgO) 2

PHYSICAL PROPERTIES

pH (1% solution) 7.60
Color: Blue

FORMULATION

Wettable powder

PACKAGING

1 kg bag
5 kg bag
10 kg bag

APPLICATION

Foliar



1 kg



5 kg



10 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	To be used only when a need has been established. Do not exceed the appropriate doses.	300 – 400 g/100 L of water

Avvertenze: Da utilizzare soltanto in caso di bisogno riconosciuto. Rispettare i dosaggi riportati. Il prodotto non è combustibile ed è stabile a temperature e pressioni ordinarie. Stoccare il prodotto in locali adeguatamente aerati e a temperature comprese tra +5°C e +35°C.

Ramidro

Copper hydroxide-based defense process activator



EC FERTILIZER

SOLID MIXTURE OF MICRO-NUTRIENTS

RAMIDRO is a wettable powder foliar fertilizer that rapidly prevents and treats copper and manganese deficiencies. These micro-elements are essential for normal plant physiology, playing a fundamental role in photosynthesis, respiration, nitrogen fixation, protein and carbohydrate synthesis, and cell wall formation.

Copper hydroxide is the most refined form of copper. From an agronomic standpoint, its key advantage is the rapid release of copper ions, making RAMIDRO highly effective at stimulating the plant's natural defenses against pests.

Like iron, manganese acts as a catalyst in the formation of chlorophyll and proteins, and also plays a role in redox reactions within plant tissues. In many plants, manganese deficiency manifests as general leaf chlorosis.

Regular use of RAMIDRO helps ensure healthier, stronger plants.

- Treats and prevents damage caused by copper and manganese micro-deficiencies.
- Acts against fungal diseases.
- Reduces imbalances caused by nutritional deficiencies.
- Healthier, stronger crops.

REGISTRATION

SIAN Registration No.
0023684/18

COMPOSITION (% w/w)

Copper (Cu) 20
Manganese (Mn) 0.5

PHYSICAL PROPERTIES

pH (1% solution) 7.5
Color: Light blue

FORMULATION

Wettable powder

PACKAGING

1 kg bag
5 kg bag
10 kg bag

APPLICATION

Foliar



1 kg



5 kg



10 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	To be used only when a need has been established. Do not exceed the appropriate doses.	300 – 400 g/100 L of water

Precautions: Use only when there is a recognized need. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Santa Fe

Fertilizers based on EDDHA-chelated iron



EC FERTILIZER

FERTILIZERS BASED ON IRON CHELATED WITH EDDHA

SANTA FE is a range of fertilizers based on iron chelated with EDDHA, designed to prevent and treat physiological disorders and nutritional imbalances caused by iron deficiency—conditions that manifest as leaf withering and yellowing, stunted growth, and impaired flowering and fruiting. The EDDHA chelating agent enables the iron to penetrate the soil and be absorbed by the roots, thereby allowing the plant to synthesize chlorophyll, the foundation of the energy source for plant life. High solubility, rapid assimilation, high iron concentration, and excellent soil stability make SANTA FE products ideal for resolving chlorosis issues, even under extreme conditions.

Fertilizer	Chelating agent	Total iron (Fe)	Water-soluble iron (Fe) %	chelated fraction %	Iron (Fe) ortho-ortho isomer	Nr. SIAN
SANTA Fe 4.8	EDDHA	6	6	100	4,8	0015966/16
SANTA Fe 4.2	EDDHA	6	6	100	4,2	0015967/16
SANTA Fe 3.0	EDDHA	6	6	100	3	0015968/16

- Resolve iron chlorosis issues.
- High stability, even in highly alkaline and calcareous soils.
- Greening effect.
- Free from impurities.
- High water solubility.
- Rapid root uptake.
- Recommended for hydroponics.

PHYSICAL PROPERTIES

pH (1% solution) 7 - 8
Solubility (g/L, 20°C) 50 - 60
Color Brick red

FORMULATION

Soluble microgranules

PACKAGING

Bag 1 kg
Bag 5 kg
Bag 20 kg

APPLICATION

Soil application



1 kg



5 kg



20 kg

MODE OF USE	CULTURE	DOSES	WHEN TO APPLY IT
Radical	Fruit-bearing plants	30–40 g for young plants, 50–100 g for mature plants	Apply at the resumption of vegetative growth, when uptake is highest, or when a need has been identified.
	Vegetable crops; Floricultural crops; Industrial crops	4 - 7 kg/ha	
	Nurseries	4 – 6 g/m ²	
	Hydroponic Crops	10 – 20 g/m ³ of water	

Precautions: The iron micronutrient, chelated with EDDHA, is stable within a pH range of 3 to 11. Use only where there is a recognized need. Adhere to the specified dosage rates. Conduct preliminary tests before mixing with other products. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Phosphate activators



Phos Ca

Activator of defense mechanisms

EC FERTILIZER

NP FERTILIZER SOLUTION WITH CALCIUM

PHOS Ca is a calcium, phosphorus, and nitrogen-based fertilizer designed to prevent and rapidly correct calcium deficiencies, thanks to its pronounced upward and downward systemic mobility, which allows nutrients to quickly reach all parts of the plant.

Calcium and phosphorus improve produce quality by enhancing fruit firmness, coloration, and shelf life, while nitrogen helps improve the plant's nutritional status.

Thanks to its special formulation, PHOS Ca stimulates the plant to produce phytoalexins, which act as an internal defense mechanism against fungi and bacteria.

- Prevents issues caused by phosphorus and calcium deficiencies: fruit cracking, blossom-end rot, and physiological leaf drying in vegetables.
- Improves tissue firmness.
- Boosts the plant's self-defense mechanisms.
- Enhances nutrient uptake.
- Improves fruit quality characteristics.
- Highly assimilable via both foliage and roots.
- Excellent systemic translocation within the plant.

COMPOSITION (% w/w)

Total Nitrogen (N) 3%
Ureic Nitrogen (N) 3%
Phosphorus Pentoxide (P₂O₅) 23%
Calcium Oxide (CaO) 4%

PHYSICAL PROPERTIES

pH (1% solution) 2.17
Density (g/ml, 20°C) 1.20
Color Colorless

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan
25 kg jerrycan

SHIPPING UNIT

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2–3 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2–3 applications throughout the cycle	6 – 8 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Phos Cu

Activator of defense mechanisms

EC FERTILIZER

NP FERTILIZER SOLUTION WITH COPPER

PHOS Cu is a copper, phosphorus, and nitrogen-based fertilizer designed to promptly prevent and correct copper deficiencies, thanks to its pronounced upward and downward systemic action that allows nutrients to rapidly reach all parts of the plant.

The copper and phosphorus—present in forms fully assimilable via both foliage and roots—not only prevent nutritional deficiencies but also give the product strong fungicidal activity. The nitrogen contributes to the formation of chlorophyll, proteins, nucleic acids, and amino acids. Thanks to its special formulation, PHOS Cu stimulates the plant to produce phytoalexins, which act as an endogenous defense against fungi and bacteria.

- Prevents phosphorus and copper deficiencies.
- Boosts the plant's self-defense mechanisms.
- Improves nutrient uptake.
- Antimicrobial and antifungal activity.
- Highly assimilable via both foliage and roots.
- Excellent systemic translocation within the plant.

COMPOSITION (% w/w)

Total nitrogen (N) 3%
Ureic nitrogen (N) 3%
Phosphorus pentoxide (P₂O₅) 20
Copper (Cu) soluble in water 5

PHYSICAL PROPERTIES

pH (1% in solution) 2.5
Density (g/ml, 20°C) 1.3
Color Light blue

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg tank
25 kg tank

PACKAGING

16 packs of 1 kg
4 packs of 6 kg
32 packs of 25 kg

APPLICATION

Foliar
Radical



1 kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	2–3 applications throughout the cycle	150 – 200 g/100 L of water
Radical	Fruit, Vine, and Olive Crops / Vegetable Crops Floricultural Crops Industrial Crops	2–3 applications throughout the cycle	4 – 6 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Phos K

Activator of defense mechanisms

EC FERTILIZER

PK FERTILIZER SOLUTION

PHOS K is a fertilizer designed to support plants during critical phenological stages, such as flowering, fruit set, fruit enlargement, and ripening. The formulation is produced through the reaction of phosphorus and potassium; these elements are easily assimilated via both foliage and roots, rapidly reaching all parts of the plant. PHOS K stimulates root system development, facilitates flower and seed formation, and improves fruit size and shelf life while enhancing organoleptic qualities. Furthermore, the product's excellent action in facilitating nutrient transport enables treated crops to improve nutrient uptake, even under conditions of physiological or climatic stress. In particular, PHOS K induces the plant to produce phytoalexins, thereby boosting systemic resistance against biotic and abiotic stressors.

- Stimulates root system development.
- Boosts the plant's self-defense mechanisms.
- Improves nutrient uptake.
- Enhances fruit quality characteristics.
- Highly assimilable via both foliage and roots.
- Excellent systemic translocation within the plant.

COMPOSITION (% w/w)

Phosphorus pentoxide (P₂O₅) 30
Potassium oxide (K₂O) 20

PHYSICAL PROPERTIES

pH (1% solution) 5.5
Density (g/ml, 20°C) 1.4
Color Colorless

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg jerrycan
25 kg jerrycan

SHIPPING UNIT

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2–4 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2–4 applications throughout the cycle	6 – 8 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Phos Mg

Activator of defense mechanisms

EC FERTILIZER

NP FERTILIZER SOLUTION WITH MAGNESIUM

PHOS Mg is a magnesium, phosphorus, and nitrogen-based fertilizer designed to rapidly prevent and correct phosphorus and magnesium deficiencies. It features exceptional upward and downward systemic mobility, allowing nutrients to quickly reach all parts of the plant.

The magnesium and phosphorus—fully assimilable via both foliar and root uptake—enable the product to promote flowering, bud break, and root system development. The nitrogen contributes to the formation of proteins, nucleic acids, and amino acids, generally improving the plant's nutritional status. Thanks to its special formulation, PHOS Mg stimulates the plant to produce phytoalexins, which act as an endogenous defense mechanism against fungi and bacteria.

- Prevents phosphorus and magnesium deficiencies.
- Boosts the plant's self-defense mechanisms.
- Improves nutrient uptake.
- Highly assimilable via both foliage and roots.
- Excellent systemic translocation within the plant.

COMPOSITION (% w/w)

Total Nitrogen (N) 3%
Ureic Nitrogen (N) 3%
Phosphorus Pentoxide (P₂O₅) 25
Water-soluble
Magnesium (Mg) 6

PHYSICAL PROPERTIES

pH (1% solution) 2.3
Density (g/ml, 20°C) 1.3
Color Colorless

FORMULATION

Soluble liquid

PACKAGING

Bottle 1 kg
Canister 6 kg
Canister 25 kg

SHIPPING UNIT

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2 – 3 applications throughout the cycle	200 – 300 g/100 L of water
Radical	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2 – 3 applications throughout the cycle	6 – 8 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.



Phos Zn

Activator of defense mechanisms

EC FERTILIZER

NP FERTILIZER SOLUTION WITH ZINC

PHOS Zn is a fertilizer based on zinc, phosphorus, and nitrogen, designed to promptly prevent and correct phosphorus and zinc deficiencies. It features pronounced upward and downward systemic mobility, allowing nutrients to rapidly reach all parts of the plant. The zinc and phosphorus—present in forms fully assimilable via both foliage and roots—enable the product to promote seed germination after sowing and root development after transplanting. Nitrogen contributes to the formation of proteins, nucleic acids, and amino acids, generally improving the plant's nutritional status. Thanks to its special formulation, PHOS Zn stimulates the plant to produce phytoalexins, which act as an endogenous defense mechanism against fungi and bacteria.

- Prevents phosphorus and zinc deficiencies.
- Boosts the plant's natural defense mechanisms.
- Improves nutrient uptake.
- Highly assimilable via both foliage and roots.
- Excellent systemic translocation within the plant..

COMPOSITION (% w/w)

Total Nitrogen (N) 3%
Ureic Nitrogen (N) 3%
Phosphorus Pentoxide (P₂O₅) 30%
Water-soluble Zinc (Zn) 10%

PHYSICAL PROPERTIES

pH (1% solution) 2.0
Density (g/ml, 20°C) 1.45
Color Red

FORMULATION

Soluble liquid

PACKAGING

1 kg bottle
6 kg container
25 kg container

SHIPPING UNIT

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit/Citrus Crops, Vegetable Crops, Ornamental Crops, Industrial Crops	2 – 3 applications throughout the cycle	150 – 200 g/100 L of water
Radical	Fruit/Citrus Crops, Vegetable Crops, Ornamental Crops, Industrial Crops	2 – 3 applications throughout the cycle	5 – 7 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

A young plant with green leaves and a visible root system growing in dark soil. The plant is centered in the frame, with its roots spreading out in the soil below. A white rectangular box with a black border is positioned horizontally across the middle of the plant, containing the text "Water-soluble root fertilizers".

Water-soluble root fertilizers



Nutriel R

Crystalline fertigation fertilizers containing chelated microelements

EC FERTILIZER

NPK FERTILIZERS WITH MICROELEMENTS FOR FERTIGATION

NUTRIEL R products are crystalline fertilizers designed for fertigation, produced from high-quality, high-purity raw materials. All formulations feature complete and immediate solubility and are suitable for use in both open-field and greenhouse cultivation.

The extensive range of formulas has been specifically developed to meet the nutritional needs of any crop across all soil types. Furthermore, NUTRIEL R products are enriched with EDTA-chelated microelements; these are rapidly absorbed, supporting plant development and growth throughout all phenological stages.

Recommended time of application	Ratio N : P ₂ O ₅ : K ₂ O %	N- total %	N-NH ₄ %	N-NO ₃ %	N-NH ₂ %	P ₂ O ₅ %	K ₂ O %	MgO %
To promote vegetative development	20.20.20	20	4	4	12	20	20	---
	18.18.18	18	6	3	9	18	18	---
	30.10.10 (Fruit-bearing trees)	30	4,5	2,5	23	10	10	---
	25.10.10	25	8	3	14	10	10	---
	20.5.10 + 3.5MgO (Fruit-bearing trees)	20	9,1	2,8	8,1	5	10	3,5
to stimulate rooting, flowering, and fruit enlargement	10.30.20	10	6	2	2	30	20	---
	13.40.13	13	8	1	4	40	13	---
	10.50.8*	10	10	---	---	50	8	---
	10.50.10	10	9	1	0	50	10	---
Per favorire la maturazione del frutto	15.5.30 + 2 MgO	15	3	8,5	3,5	5	30	2
	10.10.30 + 3.5 MgO	10	2,1	4,8	3,1	10	30	3,5
	8.18.36	8	2,5	4,5	1	18	36	---
	5.35.35	5	---	1,7	3,3	35	35	---

(*) Without microelements

% Microelements present in the formulations (chelated with EDTA)

Cu EDTA	Fe EDTA	Mn EDTA	Zn EDTA
0,002	0,02	0,01	0,002

Nutriel R

Crystalline fertigation fertilizers containing chelated microelements

Water-soluble root fertilizers

Ratio N : P ₂ O ₅ : K ₂ O %	Proprietà chimico - fisiche			color
	Solubility 20°C g/L	pH sol. 10%	EC sol. 1% mS/cm	
20.20.20	350	4,9	6,50	light blue
18.18.18	380	4,9	6,50	light blue
30.10.10	490	4,6	5,70	light blue
25.10.10	340	5,9	4,70	light blue
20.5.10 + 3.5 MgO	380	5,4	8,60	light blue
10.30.20	270	5,0	6,40	light pink
13.40.13	320	5,3	6,85	light pink
10.50.8	280	3,90	5,60	light pink
10.50.10	260	3,50	5,70	light pink
15.5.30 + 2 MgO	410	5,4	8,60	light yellow
10.10.30 + 3.5 MgO	360	4,80	8,50	light yellow
8.18.36	230	4,95	8,70	light yellow
5.35.35	210	4,7	8,70	light yellow

FORMULATION

Soluble microcrystals

PACKAGING

25 kg bags

60 bags of 25 kg

APPLICATION

Radical

- Free from chlorine, sodium, carbonates, and other substances harmful to crops.
- Specific balance of macro-elements tailored to the phenological stage.
- Fully water-soluble.
- Contains water-soluble micro-elements in EDTA-chelated form.
- Reduced application rates due to an exceptionally high root absorption coefficient.
- Versatile use with all water types, including hard water rich in carbonates.
- Excellent compatibility and miscibility with various water-soluble fertilizers and plant protection products.



25 kg

DOSAGE ADVICE

MODE OF USE	CULTURE	Product quantity 1000 liters of water per	TOTAL QUANTITY OF PRODUCT PER UNIT AREA AND PER SINGLE APPLICATION	WHEN TO APPLY IT
Radical	Fruit-bearing plants Vegetable crops Floricultural crops Industrial crops	5 – 10 kg/1000 L	Open fields: 50 – 70 kg/ha Greenhouse: 8 – 12 g/m ²	2–4 applications throughout the cycle

Warnings: The EDTA-chelated microelements copper (Cu), iron (Fe), manganese (Mn), and zinc (Zn) are stable within a pH range of 4 to 11. The product can be used on all cultivated species and on soils deficient in microelements. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. Store the product in a suitably cool, well-ventilated area.



Water-soluble foliar fertilizers



Nutriel F

Foliar fertilizers complete with chelated microelements

EC FERTILIZER

NPK FERTILIZERS WITH MICROELEMENTS FOR FOLIAR APPLICATION

NUTRIEL F products are foliar fertilizers derived from high-quality, high-purity raw materials. The extensive range of formulations has been specifically designed to meet the nutritional needs of every crop across different phenological stages.

Furthermore, NUTRIEL F products are enriched with EDTA-chelated microelements, which are essential for preventing potential micronutrient deficiencies and promoting the balanced development of all crops.

Recommended time of application	Ratio N : P ₂ O ₅ : K ₂ O %	N-to- tale %	N-NH ₄ %	N-NO ₃ %	N-NH ₂ %	P ₂ O ₅ %	K ₂ O %
Promotes balanced vegetative growth.	20.20.20	20	2	2	16	20	20
Promotes rapid vegetative recovery.	30.10.10	30	4,2	2,8	23	10	10
Stimulates rooting, flowering, and fruit enlargement.	10.50.10	10	9	1	0	50	10
Promotes fruit ripening.	5.30.40	5	---	5	---	30	40

% Microelements present in the formulations (chelated with EDTA)

B	Cu EDTA	Fe EDTA	Mn EDTA	Mo	Zn EDTA
0,01	0,002	0,02	0,01	0,001	0,002

Ratio N : P ₂ O ₅ : K ₂ O %	Physicochemical properties			Color
	Solubility 20°C g/L	pH sol. 10%	EC sol. 1% mS/cm	
20.20.20	350	4,96	6,50	light blue
30.10.10	380	4,50	5,50	light blue
10.50.10	270	3,50	5,60	light pink
5.30.40	340	4,50	8,50	light yellow

Nutriel F

Foliar fertilizers complete with chelated microelements

- Free from chlorine, sodium, and carbonates.
- Free from impurities.
- High water solubility.
- Contains water-soluble microelements chelated with EDTA.
- Readily absorbed via foliar application.
- Microelements chelated with EDTA.
- Low salinity.

FORMULATION

Soluble microcrystals

PACKAGING

1 kg bag

5 kg bag

20 x 1 kg bags,

4 x 5 kg bags

APPLICATION

Foliar



1 kg



5 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200 – 250 g/100 L of water

Warnings: The EDTA-chelated microelements copper (Cu), iron (Fe), manganese (Mn), and zinc (Zn) are stable within a pH range of 4 to 11. The product can be used on all cultivated species and on soils deficient in microelements. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. Store the product in a suitably cool, well-ventilated area.

Water-soluble foliar fertilizers



Az 30

Vegetative growth activator

EC FERTILIZER

Ammonium nitrate and urea solution with low biuret content.

A mineral fertilizer solution with high nitrogen content, featuring nitrogen in three forms: nitrate, ammoniacal, and ureic.

Its use is recommended from the onset of vegetative growth through the beginning of maturation, and in conjunction with post-emergence herbicide applications, as well as before, during, and after periods of adverse weather, particularly for young plants or those with limited root development. It provides a readily available nitrogen fraction capable of meeting nutritional needs during subsequent stages of the crop cycle.

AZ 30 is suitable for all nitrogen-demanding crops, both during periods of vigorous vegetative growth and when crops need to overcome growth stalls caused by environmental stress.

- Stimulates vegetative crop growth.
- Stimulates fruit enlargement.
- Increases yield quality and quantity.
- Increases fruit resistance.
- Improves post-harvest shelf life and resistance to transport..

COMPOSITION (% w/w)

Total Nitrogen (N) 30
Ammoniacal Nitrogen (N) 7.5
Nitric Nitrogen (N) 7.5
Ureic Nitrogen (N) 15

PHYSICAL PROPERTIES

pH (1% solution) 7
Density (g/ml, 20°C) 1.32
Color Light blue

FORMULATION

Liquid

PACKAGING

6 kg container
25 kg container
1200 kg tank

PACKING

4 x 6 kg
32 x 25 kg
1300 kg tank

APPLICATION

Foliar
Root/Soil



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2–4 applications throughout the cycle	250 – 300 g/100 L of water
Radical	Fruit and Vine Crops / Vegetable Crops / Ornamental Crops / Industrial Crops	2–4 applications throughout the cycle	50 – 100 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Kappa 30

Fruit ripening activator

STRAIGHT MINERAL FERTILIZER

LOW-CHLORIDE POTASSIUM SALT SOLUTION

A high-potassium mineral fertilizer solution designed to support plants during photosynthesis and the synthesis of sugars and proteins.

Its use makes plants more robust and resistant to adverse weather conditions and water scarcity. It intensifies flower coloration and improves the flavor, color, and post-harvest shelf life of fruit.

When applied—ideally during the fruit-swelling stage and the final phases of the growth cycle—KAPPA 30 enhances the organoleptic qualities of the fruit, boosting both yield quantity and quality.

- Promotes ripening.
- Improves sugar concentration and fruit coloration.
- Improves tissue firmness.
- Increases fruit resistance.
- Enhances the quality of the produce.

REGISTRATION

SIAN Registration No.
0014356/15

COMPOSITION (% w/w)

Potassium oxide (K₂O) 30

PHYSICAL PROPERTIES

pH (1% solution) 11.5
Density (g/ml, 20°C) 1.42
Color Light blue

FORMULATION

Liquid

PACKAGING

6 kg container
25 kg container
1400 kg tank

SHIPPING UNIT

4 x 6 kg
32 x 25 kg
1400 kg tank

APPLICATION

Foliar
Root (soil)



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 from fruit enlargement to ripening	250 – 300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 from fruit enlargement to ripening	50 – 100 kg/ha

Precautions: Do not mix with products containing calcium, sulfates, or phosphates. Shake well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store in a well-ventilated area at temperatures between +5°C and +35°C.



Kelat K

Fruit Quality Enhancer

EC FERTILIZER

FERTILIZER SOLUTION BASED ON COMPLEXED POTASSIUM

KELAT K is a high-potassium liquid fertilizer designed to improve fruit quality characteristics. Potassium is a key nutrient for plants, performing numerous physiological and biochemical functions: it helps lower root water potential, thereby increasing water uptake; it influences transpiration by raising cellular osmotic pressure and regulating stomatal opening and closing; it plays a role in sugar and protein synthesis; it strengthens plant tissues, making the crop more robust and resilient to adverse weather conditions; and it enhances produce quality by intensifying fruit color and improving flavor and shelf life.

A particularly important feature is its complexation with the chelating agent EDTA, which ensures the potassium is easily absorbed and rapidly translocated throughout the plant, allowing the product to be applied via both foliar and root treatments.

Additionally, the nitrogen in the formulation stimulates vegetative growth, making KELAT K suitable for all crops, particularly during the fruit growth and development stages.

- Improves fruit quality characteristics: color, flavor, and size.
- Promotes and accelerates ripening.
- Improves tissue firmness.
- Enhances the quality and appearance of the produce.

COMPOSITION (% w/w)

Total Nitrogen (N) 3
Ureic Nitrogen (N) 3
Potassium Oxide (K₂O) 30

PHYSICAL PROPERTIES

pH (1% solution) 11.5
Density (g/ml at 20°C) 1.45
Color Light blue

FORMULATION

Liquid

PACKAGING

1 kg bottle
6 kg jerrycan
25 kg jerrycan

SHIPPING UNIT

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 from fruit enlargement to ripening	250 – 350 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–3 from fruit enlargement to ripening	40 – 60 kg/ha

Precautions: Do not mix with products containing calcium, sulfates, or phosphates. Shake well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store in a well-ventilated area at temperatures between +5°C and +35°C.

Pi 54

Mineral nutrient with acidifying action

STRAIGHT MINERAL FERTILIZER

PHOSPHORIC ACID

A high-phosphorus mineral fertilizer solution—phosphorus being an essential element for plant nutrition and growth.

Pi 54 has an acidifying effect and is particularly suitable for root application on alkaline and calcareous soils, promoting the solubilization and availability of nutrients already present.

Applying Pi 54 at the start of the growing season or after transplanting encourages root system development, strengthens tissue structure, and prepares the plant for optimal flowering.

- Promotes robust and balanced crop development.
- Lowers soil pH, making microelements immobilized in high-pH soils available.
- Stimulates flowering and root development.
- Stimulates fruit enlargement.
- Promotes the resumption of vegetative growth.

REGISTRATION

SIAN Registration No.
0015958/16

COMPOSITION (% w/w)

Total phosphoric anhydride
(P₂O₅) 54
(from orthophosphoric acid)

PHYSICAL PROPERTIES

pH (1% solution) 2.5
Density (g/ml, 20°C) 1.60
Color: Green

FORMULATION

Liquid

PACKAGING

6 kg container
25 kg container

SHIPPING UNIT

4 x 6 kg
32 x 25 kg

APPLICATION

Root application



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	1 - 2 Throughout the cycle or when deemed necessary	50 – 100 kg/ha

Precautions: Miscible with common water-soluble fertilizers; concentrated solutions with fertilizers containing calcium and/or magnesium are not recommended. Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosage rates. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in adequately ventilated areas at temperatures between +5°C and +35°C.



Tecnosol

Acidifying agent with nourishing action

STRAIGHT MINERAL FERTILIZER

LOW-CONCENTRATION AMMONIUM SULPHATE SUSPENSION

TECNOSOL is a liquid fertilizer based on ammoniacal nitrogen, suitable for both foliar application and fertigation during the early stages of vegetative growth.

Its content of exclusively ammoniacal nitrogen favorably influences nutrient translocation processes, ensuring a progressive and long-lasting effect.

Of particular importance is the significant presence of sulfur—an element essential for plant life—as it is a component of the amino acids cysteine, cystine, and methionine, as well as vitamins B1 (thiamine) and H (biotin).

TECNOSOL exerts an acidifying effect on the soil and is recommended for calcareous soils, as it improves the uptake of elements (such as iron and phosphorus) that are otherwise difficult for plants to absorb in alkaline environments.

TECNOSOL can also be used in combination with certain systemic herbicides (phosphonates) to enhance and activate the absorption and penetration of their active ingredients.

The formulation leaves no residues: all its components contribute to plant nutrition and the improvement of soil characteristics.

- Nitrogen entirely in ammoniacal form.
- High sulfur content.
- Soil-acidifying action.
- Herbicide activator.

REGISTRATION

SIAN Registry No. 0023685/18

COMPOSITION (% w/w)

Ammoniacal Nitrogen (N) 8
Sulfur Trioxide (SO₃) 22

PHYSICAL PROPERTIES

pH (1% solution) 5.5
Density (g/cm³, 20°C) 1.22
Color Light blue

FORMULATION

Liquid

PACKAGING

1 kg bottle
6 kg jerrycan
25 kg jerrycan

SHIPPING UNIT

16 x 1 kg packs
4 x 6 kg packs
32 x 25 kg packs

APPLICATION

Foliar
Root/Soil



1 kg



6 kg



25 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200–300 g/100 L of water
Radical	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	30 – 70 kg/ha

Precautions: Shake the product well before use. Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between +5°C and +35°C.

Foliar supplements



Bestcitrus

Specialized supplement for citrus treatments

Nitrogenous organo-mineral fertilizer in suspension

BESTCITRUS is a specific supplement for foliar treatments on citrus fruits, containing mineral substances and organic substances based on amino acids.

The product, in addition to being rich in nitrogen and magnesium, essential elements to promote vegetative development, has a high content of specific microelements such as manganese and zinc which are essential in the reproductive process as they help the plant in the growth and full ripening of the fruits.

Deficiencies of manganese and zinc usually occur in calcareous soils. In BESTCITRUS, these two microelements enter into synergy and thanks to the carrying action of the amino acids they are translocated throughout the plant, accumulating in higher quantities.

Manganese promotes numerous biochemical and enzymatic processes by acting as a catalyst in the formation of chlorophyll and vitamin C.

Zinc stimulates plant development by participating in sugar metabolism and protein and auxin synthesis.

Magnesium promotes chlorophyll photosynthesis, intensifying the color of leaves and fruits, preventing the rachis from drying out.

Thanks to its special formulation, BESTCITRUS increases production and improves the quality level of the fruit, furthermore, thanks to the carrying action of the amino acid component, it is promptly and rapidly effective.

- Promotes balanced vegetative and productive development.
- Promotes optimal photosynthetic activity due to its high magnesium content.
- Promotes flower differentiation.
- Prevents and corrects nutritional deficiencies.
- Increases fruit size and enhances ripening.
- Increases both the quality and quantity of yields.



1 L



5 L

REGISTRATION

SIAN Registration No.
0028935/20

COMPOSITION (% w/w)

Total Nitrogen (N) 8
Organic Nitrogen (N) 1
Ureic Nitrogen (N) 3.5
Nitric Nitrogen (N) 2.5
Ammoniacal Nitrogen (N) 1
Organic Carbon (C) 3
Magnesium Oxide (MgO) 2
Manganese (Mn) 1
Zinc (Zn) 1

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Density (g/ml, 20°C) 1.25
Color Light brown

FORMULATION

Soluble liquid

PACK SIZES

Bottle 1 L
Canister 5 L

PACKAGING

16 x 1 L packs
4 x 5 L packs

APPLICATION

Foliar

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Citrus fruits	2–3 treatments every 15–20 days, starting from the resumption of vegetative growth.	200 - 300 ml/100 L of water

Precautions: Do not mix with strongly alkaline products. Shake the product well before use. Conduct preliminary tests before mixing with other products. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between 5°C and 30°C.

Bestgrain

Specialized supplement for wheat treatments

Nitrogenous organo-mineral fertilizer in suspension

BESTGRAIN is a specialized foliar supplement for wheat, containing organic amino acid-based compounds and enriched with minerals.

In addition to nitrogen and magnesium—elements essential for promoting vegetative growth—the product contains specific microelements such as manganese and copper; thanks to the transport properties of the amino acids, these are translocated throughout the plant, supporting its growth and development.

Manganese enhances crop development and helps increase the plant's resistance to disease.

Copper boosts ear fertility (increasing the number of grains per ear) and improves grain quality.

Magnesium is vital for photosynthesis and directly influences leaf development. Applying BESTGRAIN leads to a significant improvement in both the quantity and quality of cereal crops, while also enhancing the crop's resilience against adverse weather conditions and certain diseases.

- Promotes balanced vegetative and productive development.
- Promotes optimal photosynthetic activity due to its high magnesium content.
- Improves the crop's winter hardiness.
- Improves grain quality.

REGISTRATION

SIAN Registration No.
0027215/19

COMPOSITION (% w/w)

Total Nitrogen (N) 11.5
Organic Nitrogen (N) 1
Ammoniacal Nitrogen (N) 1.8
Urea Nitrogen (N) 6
Nitric Nitrogen (N) 2.7
Organic Carbon (C) 3
Magnesium Oxide (MgO) 2
Copper (Cu) 0.8
Manganese (Mn) 0.6

PHYSICAL PROPERTIES

pH (1% solution) 5.2
Density (g/ml, 20°C) 1.21
Color Dark green

FORMULATION

Soluble liquid

PACKAGING

1 L bottle
5 L container

SHIPPING PACK

16 x 1 L packs
4 x 6 L packs

APPLICATION

Foliar



MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Wheat and cereals	Applications at the 4- to 8-leaf stage, to be repeated at 10- to 14-day intervals if necessary.	400–500 ml/100 L of solution

Precautions: Do not mix with strongly alkaline products. Shake the product well before use. Conduct preliminary tests before mixing with other products. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between 5°C and 30°C.



Bestgrape

Specialized supplement for treatments on grapevines

Nitrogenous organo-mineral fertilizer in suspension

BESTGRAPE is a specialized foliar treatment for grapevines containing organic amino acid-based substances, enriched with magnesium, boron, and EDTA-chelated iron. The amino acids are rapidly assimilated, helping the plant overcome oxidative stress and promoting nutrient absorption.

Boron strengthens cell walls, reducing splitting and improving fruit shelf-life by making the fruit less susceptible to pathogen attacks.

Iron is essential for photosynthesis; present in an EDTA-chelated form, it is quickly absorbed by the plant, restoring the leaves' natural color and luster.

Magnesium promotes chlorophyll photosynthesis, intensifies the color of leaves and fruit, prevents rachis desiccation, and boosts yield levels.

Thanks to its special formulation, BESTGRAPE increases yields and improves fruit quality (protein content, sugar levels, color, firmness, and flavor); furthermore, the carrier action of the amino acid component ensures rapid and effective results.

- Promotes balanced vegetative and productive development.
- Supports optimal photosynthetic activity thanks to high magnesium content and the presence of Fe-EDTA.
- Spring applications of microelements—specifically Fe and B—prepare the crop for optimal fruit set.
- Promotes flower differentiation.
- Prevents and treats chlorosis and nutritional deficiencies.
- Improves the organoleptic properties of the fruit (flavor, color, and texture).
- Improves overall plant health.
- Increases both the quality and quantity of production.



1 L



5 L

REGISTRATION

SIAN Registration No.
0027211/19

COMPOSITION (% w/w)

Total Nitrogen (N) 12
Organic Nitrogen (N) 1
Ureic Nitrogen (N) 7.2
Nitric Nitrogen (N) 2.6
Ammoniacal Nitrogen (N) 1.2
Organic Carbon (C) 3
Magnesium Oxide (MgO) 2
Boron (B) 0.3
Iron (Fe) EDTA chelated 1

PHYSICAL PROPERTIES

pH (1% solution) 6.5
Density (g/ml, 20°C) 1.23
Color Light brown

FORMULATION

Soluble liquid

PACKAGING

Bottle 1 L
Canister 5 L

OUTER PACKAGING

16 x 1 L packs
4 x 5 L packs

APPLICATION

Foliar

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Wine and table grapes	Treatments at the visible cluster, pre-flowering, and post-fruit set stages.	250 – 350 ml/100 L of water

Precautions: pH range ensuring good stability of the chelated fraction: 4–11. Shake the product well before use. Conduct preliminary tests before mixing with other products. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between 5°C and 30°C.

Bestolive

Specialized supplement for olive tree treatments

Nitrogenous organo-mineral fertilizer in suspension

BESTOLIVE is a specialized foliar supplement for olive trees, containing organic substances based on amino acids alongside minerals.

In addition to being rich in nitrogen and magnesium—elements essential for promoting vegetative development—the product contains high levels of specific microelements such as boron and copper. Thanks to the carrier properties of the amino acids, these elements are translocated throughout the plant, supporting its growth and development.

Boron improves flower fertility by increasing pollen viability. This results in higher fertilization rates and, consequently, increased fruit production. Furthermore, it enhances tissue lignification and strengthens the stem, making the plant more resistant to mechanical and environmental stress.

Copper is a component of many enzymes involved in cellular respiration, lignification, and germination processes. It also acts as an aid in controlling major fungal and bacterial diseases.

Magnesium is an indispensable element for plants, as it plays a vital role in photosynthesis.

Thanks to its special formulation—rich in organic substances with wetting properties—BESTOLIVE extends the duration of foliar absorption and facilitates the complete utilization of all the supplied nutrients.

- Promotes balanced vegetative and productive development.
- Promotes optimal photosynthetic activity due to its high magnesium content.
- Increases fruit set.
- Promotes bud break.
- Promotes flower differentiation.
- Promotes higher fruit production.



1 L



5 L

REGISTRATION

SIAN Registration No.
0027216/19

COMPOSITION (% w/w)

Total Nitrogen (N) 17
Organic Nitrogen (N) 1
Ureic Nitrogen (N) 14.5
Nitric Nitrogen (N) 1.5
Organic Carbon (C) 3
Magnesium Oxide (MgO) 2
Boron (B) 0.4
Copper (Cu) 0.5

PHYSICAL PROPERTIES

pH (1% solution) 6.2
Density (g/ml, 20°C) 1.22
Color Dark green

FORMULATION

Soluble liquid

PACKAGING

1 L bottle
5 L jerrycan

OUTER PACKAGING

16 x 1 L packs
4 x 5 L packs

APPLICATION

Foliar

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Olive	Treatments at the onset of bud break, the start of flowering, and fruit enlargement.	250 – 350 ml/100 L of water

Precautions: Do not mix with strongly alkaline products. Shake the product well before use. Conduct preliminary tests before mixing with other products. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between 5°C and 30°C.



Fast

Liquid foliar fertilizers complete with chelated microelements

EC FERTILIZER

FERTILIZER SOLUTIONS WITH MICRO-NUTRIENTS FOR FOLIAR APPLICATION

FAST products are rapidly absorbed liquid fertilizers designed for foliar application and suitable for all crops.

They supply key nutrients in ratios specifically formulated to meet the nutritional needs of crops at various stages of the growth cycle.

Their special formulation, rich in chelated microelements, prevents and corrects nutritional deficiencies, ensuring healthy and abundant yields.

Furthermore, the high purity of the raw materials ensures maximum nutrient uptake, effectively meeting crop nutritional requirements across different phenological stages.

Of particular note are the formulations enriched with magnesium and calcium. Magnesium plays a role in pigment formation and the composition of phytin (the storage protein that supports early seedling development); it is involved in protein synthesis and facilitates phosphorus uptake and its translocation from the roots to the growing tips. Calcium plays a fundamental role in thickening and strengthening cell walls, particularly regarding the firmness of fruit and vegetable flesh.

Ratio N : P ₂ O ₅ : K ₂ O %	N-total %	N-NH ₄ %	N-NO ₃ %	N-ureico %	P ₂ O ₅ %	K ₂ O %	CaO %	MgO %
NPK 14.7.7	14	1,5	1,5	11	7	7	-	-
NK (Ca,Mg) 10.5 (10,3)	10	-	7	3	-	5	10	3
NK 3.30	3	-	-	3	-	30	-	-
PK (Mg) 29.5 (6)	-	-	-	-	29	5	-	6
NPK 20.6.6	20	2	2	16	6	6	-	-

% Microelements in the formulations chelated with EDTA

Ratio	B	Cu EDTA	Fe EDTA	Mn EDTA	Zn EDTA
NPK 14.7.7	-	-	0,05	0,05	0,05
NK (Ca,Mg) 10.5 (10,3)	-	-	-	-	-
NK 3.30	-	-	-	-	0,5
PK (Mg) 29.5 (6)	-	-	-	-	-
NPK 20.6.6	0,01	0,002	0,02	0,01	0,002

Fast

Liquid foliar fertilizers complete with chelated microelements

	Physicochemical properties		
Ratio	Density g/ml	pH sol. 1%	EC sol. 1‰ mS/cm
NPK 14.7.7	1,15	7,3	0,65
NK (Ca,Mg) 10.5 (10,3)	1,49	7,5	0,86
NK 3.30	1,45	10,5	0,94
PK (Mg) 29.5 (6)	1,4	2,5	0,97
NPK 20.6.6	1,3	7	0,87

FORMULATION

Liquid

PACKAGING

1 kg bottle
6 kg canister

PACKAGING

16 packs of 1 kg,
4 packs of 6 kg

APPLICATION

Radical

- Immediate solubility for rapid and complete action.
- Balanced nutrient ratios.
- Presence of chelated microelements.
- Enhanced vegetative growth.
- Convenient dosing and application.



1 kg



6 kg

MODE OF USE	CULTURE	WHEN TO APPLY IT	DOSES
Foliar	Fruit, vegetable, and ornamental crops; industrial crops.	2–4 applications throughout the cycle	200 – 300 g/100 L of water

Precautions: pH range ensuring good stability of the chelated fraction: 4–11. Shake the product well before use. Conduct preliminary tests before mixing with other products. The product is non-combustible and stable under ordinary temperatures and pressures. Store the product in well-ventilated areas at temperatures between 5°C and 35°C.



Granular



Tecnofruit

Granular fertilizers enriched with calcium, magnesium, and sulfur

ORGANO-MINERAL FERTILIZERS ENRICHED WITH CALCIUM, MAGNESIUM, AND SULPHUR

TECNOFRUIT products are granular organo-mineral fertilizers particularly recommended for nourishing tree crops, though they are also effectively used on many herbaceous crops where fertilizers with high phosphorus and organic matter content are required. In TECNOFRUIT fertilizers, nitrogen becomes available gradually and progressively, thanks to its division into three components: ammoniacal, ureic, and organic. Phosphorus and potassium are also present in highly assimilable forms and in ratios designed to support plants during the critical early stages of root system development. Sulfur acts as an activator of biochemical processes and, working synergistically with nitrogen, enhances the slow-release activity of the nutrients. Calcium and magnesium impart greater structural integrity and resistance to plant tissues and contribute to photosynthetic processes, thereby enhancing the organoleptic qualities of the harvest. The TECNOFRUIT formulation is rounded out by the presence of organic carbon of biological origin, which improves the uptake of all other mineral elements, enabling excellent performance even at lower application rates per hectare. Thanks to this special combination of raw materials, TECNOFRUIT ensures healthy, balanced plants capable of fully realizing their productive potential.

FORMULATION

Soluble granules

APPLICATION

Radical

PACKAGING

25 kg bag

Ratio N : P ₂ O ₅ : K ₂ O %	N- totale %	N- orga- nico	N- NH ₄ %	NO ₃ %	P ₂ O ₅ %	K ₂ O %	CaO %	MgO %	SO ₃ %	C orga- nico %	Nr. SIAN
NPK 15.6.7	15	1,6	8	5,4	6	7	4	2	19	7,5	0024483/18

- Constant and gradual plant nutrition.
- Abundant and prolonged flowering.
- Increased resistance to pathogens.
- Ease of use.
- Maximum water solubility.
- Uniform particle size with no dust.



25 kg

FERTILIZER	CULTURE	QUANDO VA APPLICATO	DOSI
Tecnofruit 15.6.7+4CaO+2MgO+SO3+C	• Stone fruit, drupaceous fruits, and pome fruits - Olive - Tomato, potato, and other vegetable crops - Legumes Forage crops Nurseries - Grasslands/Lawns	• Late winter • Late winter • Pre-sowingPre-transplanting • Pre-sowing • Pre-sowing • Top-dressing • At planting	• 600-800 kg/ha • 500-700 kg/ha • 600-800 kg/ha • 200-300 kg/ha • 200-300 kg/ha • 400-500 kg/ha • 500-800 kg/ha

Precautions: Conduct preliminary tests before mixing with other products. Adhere to the specified dosages. Store the product in a suitably cool, well-ventilated area.





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