

**products
catalogue**

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About us

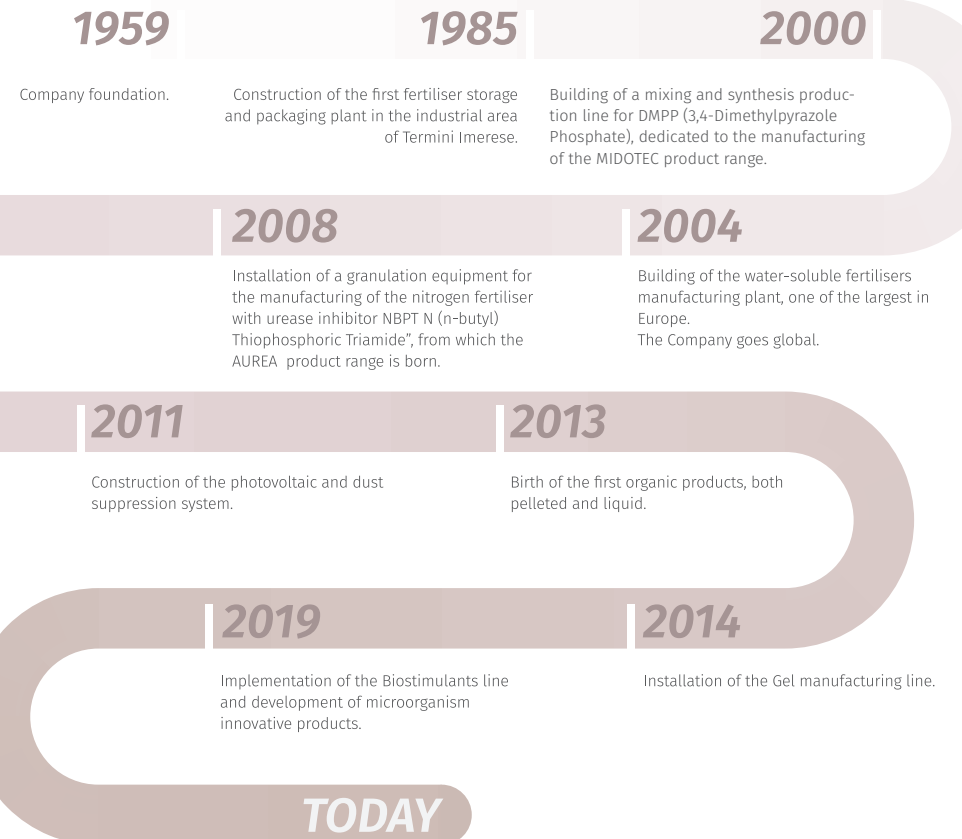
Mugavero is an Italian Company, specialised in Plant Nutrition since 1959.

Its strong tradition begins with Sicilian Agriculture from former times, then playing a supporting role in its entire later evolution. Born in the heart of the Mediterranean region, Mugavero is globally recognised as an example of "Made in Italy", in terms of Research and Development, innovative solutions and its high-tech portfolio.

With a daily production capacity of 250 MT of water-soluble products, 1200 MT of granular products and 30,000 L of liquids and bio-stimulants, Mugavero is currently one of the

main fertiliser distribution hubs in the world.

Thanks to the valuable technical-scientific know-how of all members in the organisation, and the sincere commitment of each of them, the Company offers currently a complete and specialised range of products.





Research

Being amongst the first Companies in Europe in terms of formulation, manufacturing and distribution of granular and water-soluble Slow-release fertilisers, Mugavero continues to invest in modern and exclusive technologies, turning also into a manufacturer of particular liquid formulations.

With the foundation of a Basic Research Company and embracing partnerships with Research Institutes, Mugavero remains

constantly updated on scientific innovations and dedicated to the development of innovative products.

Mugavero product development is possible thanks to the study, the research, the state-of-the-art laboratories and the know-how in genetics, microbiology, chemistry and agronomy.



TAYLOR-MADE CHEMISTRY

Thanks to its technologies and systems, Mugavero develops products with specific features that satisfy any requirement.

Mugavero offers complete solutions for plantations, from basic fertilisation to special liquids for foliar application.



MICROORGANISMS

Biofertilisers based on Microorganisms (**BBM**) are born. The different combinations of selected Microorganisms give rise to new bio-preparations to better meet the nutritional needs of crops with beneficial effects on plant health and growth.



PHYTOTRON

The phytotron, attached to the laboratories, enables the evaluation of formulations in a controlled environment, of plant essences in response to abiotic changes such as water, salt and heat stress.



M.A.S. TECHNOLOGY

Microrganismi Agricoltura Sostenibile

Mugavero, is strongly committed to the valorisation, production and application of microbial resources.

Dedication to scientific research and the development of natural technologies guarantees innovative biotechnological solutions for the agricultural sector.

M.A.S. Technology (Sustainable Agriculture Microorganisms) involves the application of beneficial microorganisms, developed by Mugavero's in-house research, to granular and liquid formulations.

The results of applying M.A.S. Technology, as part of fertilisation plans, are consistent across different climate zones and soil types, and help growers produce more.

Bio-innovative formulations all have biosafety level 1. Once applied to the soil, they colonise plant roots and trigger multiple hydrolytic and oxidative biochemical reactions during plant-microorganism interaction.

A symbiotic ('holobiont') association is established that perpetuates colonies throughout the season and maintains a stable balance of microbes at the plant root interface: the micro-organism persists as a member of the plant's hologenome, giving it positive phenotypic effects.



Green

Environmental Protection, Food Security and the consciousness that "we are what we eat" are Global fundamental priorities.

Mugavero, attentive to all these aspects, expresses a strong tendency for the development of Green and Eco-friendly solutions, aiming for a maximum safety of the environment, farmworkers and end users.

From a holistic standpoint, some examples can be the accurate selection of raw materials free from undesired residue, the use of photovoltaic equipment, and the dust suppression and water recycling systems in the manufacturing process.

Our Quality Management System is

Energy

All the power required to feed the manufacturing plant is provided by the **photovoltaic system**, on site, which has a total peak power of 176,170 Wp.

Photovoltaic technology and sustainability go hand in hand, therefore Mugavero products are manufactured using clean solar energy.

Agriculture Ecology

The sustainability in the field begins with fertilisers that use the slow-release technology, in accordance with the European Union Regulations for the **reduction of nitrogen and carbon dioxide emissions** into the atmosphere.

The design and manufacturing of special **Zero Residual** liquid formulations are the demonstration of a more careful and attentive approach to an increasingly demanding agriculture.

The liquid production line is completed with the use of containers, in different formats, made of **recycled material** obtained by means of a special registered trademark technology; the resin contained therein comes from an accurate selection of plastic waste, obtained through an innovative transformation system, respecting the Nature and the Environment.



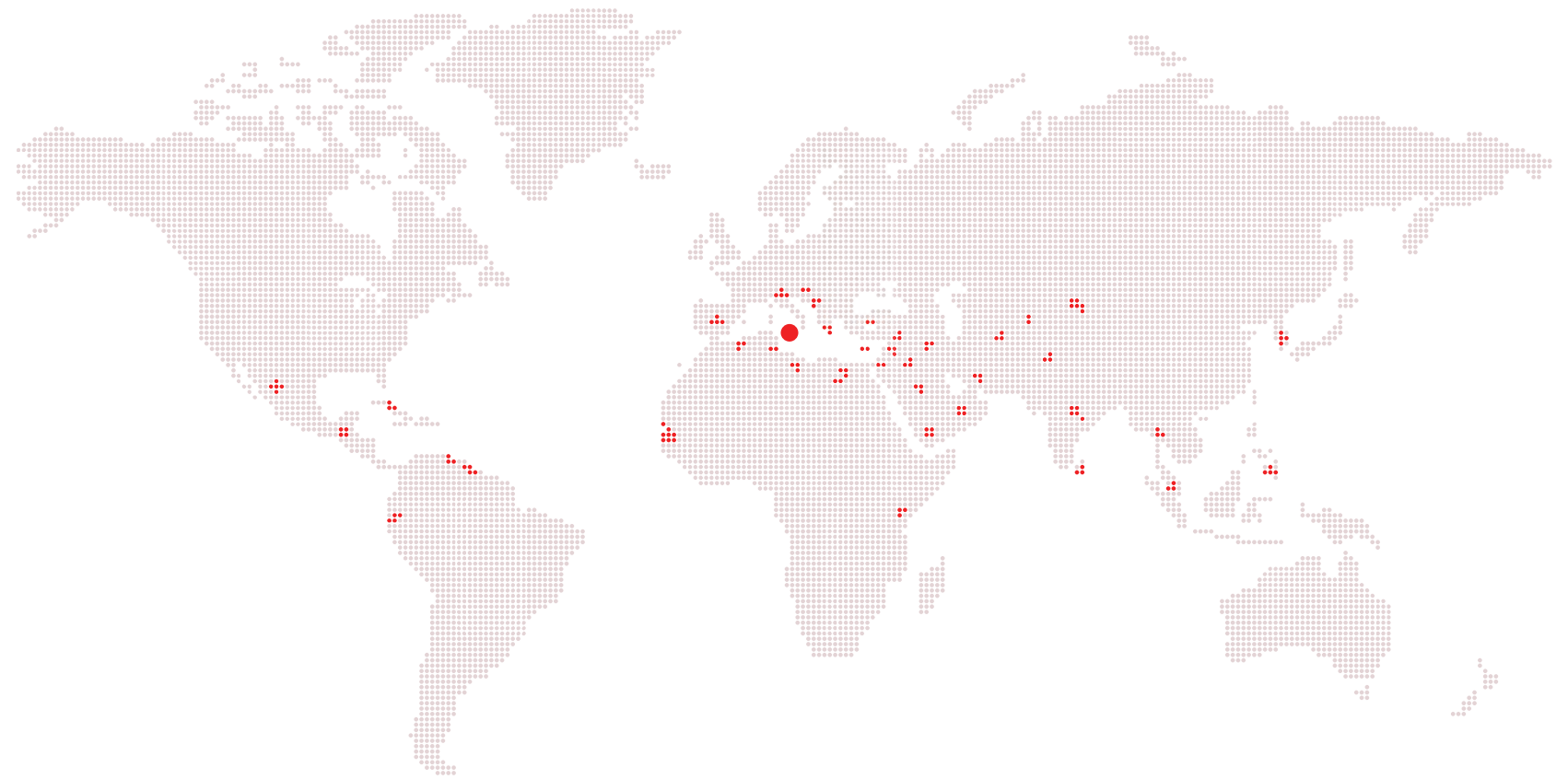
Export

The Mugavero Company is internationally recognised for the undisputed reliability and quality of its products, exporting to more than 50 Countries worldwide: from Europe to Central America and from the Middle East to Southeast Asia.

Leading the path of an ever evolving agriculture, Mugavero currently offers a wide range of products that improves the productive yields of several kinds of cultivations, from the tropical ones to those with high level requirements in cold environments.

The ability to provide an extensive product portfolio and a 360 degrees service makes Mugavero one of the most important international players in the plant nutrition segment.

The Mugavero brand is nowadays known as an authentic symbol of “Made in Italy”.



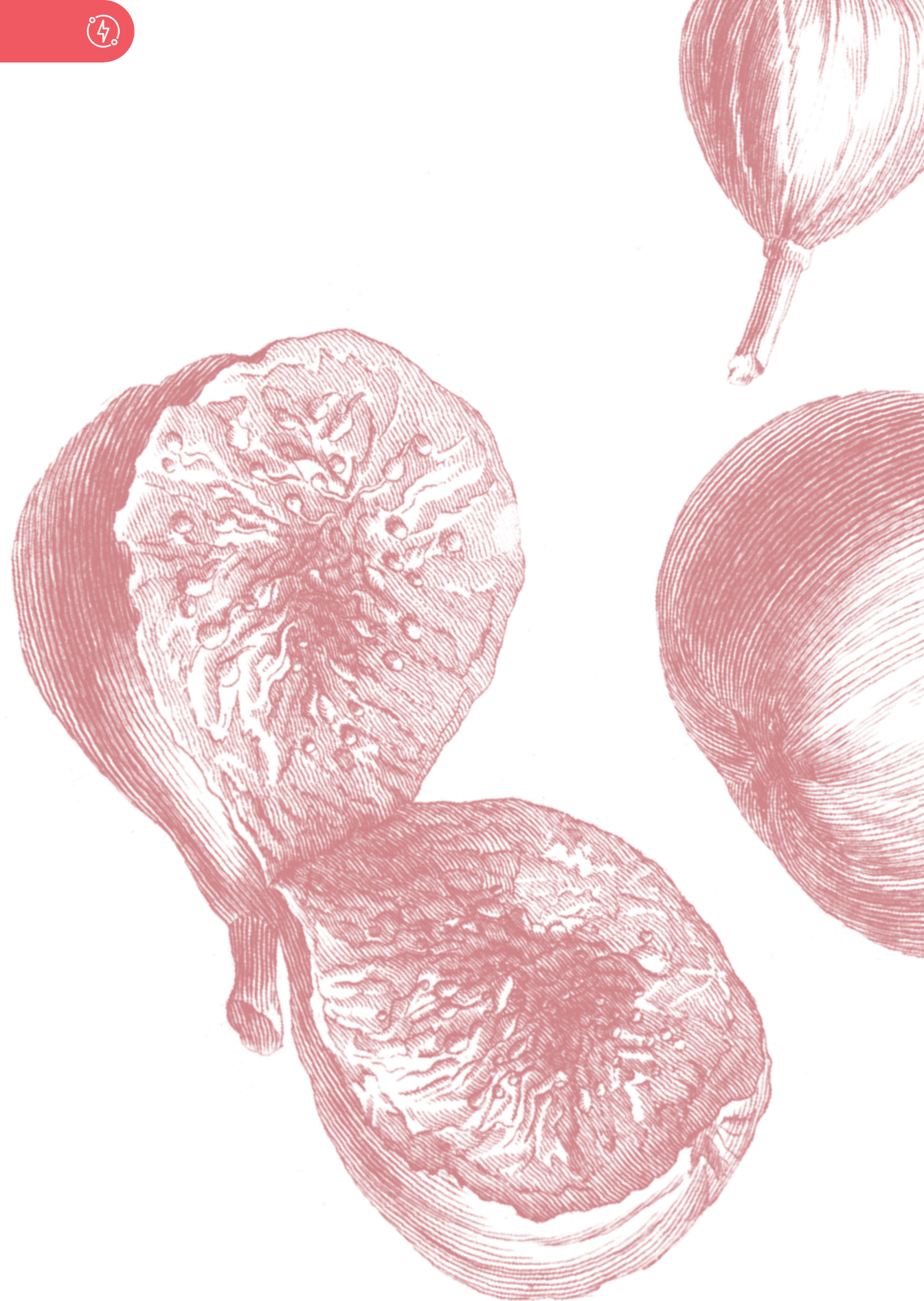


Biostimulants

The **BIOSTIMULANTS** category includes innovative products, which contain **ORGANIC SUBSTANCES** and/or **MICROORGANISMS**, specially designed to support the plant development throughout the plant life cycle and to improve its qualitative and quantitative yields.

Applied directly on the leaves or by fertigation, the biostimulants interact punctually and naturally on the main

physiological processes of the plant: some promote the creation of new roots by improving the radical absorption of nutrients, others act on the epigeal tissues of the plant, enhancing the division and cell multiplication, and influencing the different phenological stages of the plant.





ALGASTAR®



Plant

- Stimulates vegetative growth in early phases
- Fosters cell multiplication

Fruit

- Boosts fruit enlargement



foliar application



fertigation



bottle

1 L



approved for organic farming



jerry can

5/20 L

Algastar is an *Ascophyllum Nodosum*-based bio-stimulant, totally natural, obtained from an exclusive extraction process under low temperatures.

Algastar is rich in organic compounds with beneficial properties, including polysaccharides, organic and amino acids. The phytohormones contained therein increase the multiplication and the enlargement of the cells, and improve plant resistance to biotic and abiotic stress.

It improves the nutritional status of the plant, reduces the free radicals activity and boosts the enzyme action to protect against oxidative stress.

Algastar is especially indicated in the early stages of seedling, when the plant growth needs to be stimulated, and in the fruit enlargement stage, to improve cell multiplication.

It can be used by foliar application or fertigation, being easily absorbed in both cases.

Algastar is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	
			foliar	fertigation
total Nitrogen (N)	1	cultivation		
of which Organic Nitrogen (N)	1	Cereal	200-300	5-10
total Organic Carbon (C)	10	Flowering and Ornamental	200-300	5-10
Organic substance with nominal molecular weight < 50kDa	30	Forage	200-300	5-10
		Orchards	200-300	5-10
		Industrial crops	200-300	5-10
		Horticultural plants	200-300	5-10

ASWELL®



Soil

- Promotes the development of microorganisms

Plant

- Supports the plant throughout its life cycle
- Helps the translocation of macro and microelements

Fruit

- Increases fruit production



foliar application



fertigation



bottle

1 L



approved for organic farming



jerry can

5/20 L

Aswell is a high quality nutritional balancer, with free amino acids of low-molecular-weight obtained from the enzymatic hydrolysis of animal epithelium.

Thanks to the great ability to penetrate the cell cytoplasm, Aswell activates key metabolic systems within the plant, supporting the development of the plant in its phenological stages and favouring the translocation of macro and microelements. It is recommended throughout the plant life cycle, whenever it is necessary to induce vigour to the plant, to better overcome biotic and abiotic stress and improve nutrients assimilation.

Aswell can be applied either directly to the leaves or through fertigation, as it can be easily absorbed. The use of Aswell is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	
			foliar	fertigation
total Nitrogen (N)	8	cultivation		
of which Organic Nitrogen (N)	7,7	Cereal	200-300	20-30
of which Ammonia Nitrogen (N)	0,3	Flowering and Ornamental	100-200	10-20
total Organic Carbon (C)	20	Forage	100-200	10-20
total Amino acids	48,1	Orchards	200-300	20-30
free Amino acids	10	Industrial crops	100-200	10-20
		Horticultural plants	100-200	10-20



BATTIRIA® FLUID

with **M.A.S.®**
technology



Soil

- Promotes microbial activity
- Increases nutrient availability

Plant

- Improves water use efficiency

Fruit

- Improves shelf-life



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

Battiria Fluid is an innovative microbial-based biostimulant, which includes spores of four strains of the genus *Bacillus* meticulously selected and particularly active under all conditions. Battiria Fluid enables atmospheric nitrogen fixation, mobilization of phosphorus and potassium in the soil, improving the availability to crops of essential nutrients.

The synergistic and complementary action of each strain, contained in Battiria Fluid, ensures the promotion of plant growth through the production of phytohormones, secondary metabolites and siderophores.

Therefore, Battiria Fluid optimizes yield potential by improving nutrient uptake, restores beneficial microorganisms in the rhizosphere, and enriches and improves soil structure for increased root mass and valuable plant vigor.

Battiria Fluid, applied by foliar application and fertigation, promotes the plant's natural immune defences, thereby fortifying and invigorating plant crops, enabling greater tolerance to biotic and abiotic stresses.

Battiria Fluid is approved for organic farming.

Doses and methods of use	ml/h		I/ha
	foliar	fertigation	
<i>Crops</i>			
Cereal crops	100-200	-	
Floricultural and ornamental	100-200	2-5	
Forages	100-200	-	
Orchards	100-200	2-5	
Industrial	100-200	2-5	
Horticultural	100-200	2-5	

Composition

Rhizosphere bacteria $\geq 2 \cdot 10^9$ CFU/ml

Bacillus spp.

Mycorrhizae 0.001% w/P

F.mosseae + R.intraradices

B&VI®



Plant

- Improves and unifies productions

Fruit

- It strengthens the peduncle
- Promotes regularity of gauge



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

B&VI is a liquid organic vegetative development-promoting formulation with bioactive molecules produced by bacteria and natural plant extracts.

It contains amino acids, proteins, carbohydrates and vitamins, nitrogen and is rich in natural phytohormones, in particular of cytokinins.

It accelerates flower organ formation and consequently fruit set, improves fruit size and health, increases photosynthetic and metabolic efficiency of plants.

Intervene at vegetative growth at the appearance of flower organs and petal drop before possible natural fruit drop.

Application with B&VI requires no preliminary time to prepare the final solution.

B&VI is approved for organic farming.

Composition	%	Doses and methods of use	
		ml/hl	I/ha
Total nitrogen (N)	0.1		
Organic nitrogen (N)	0.1		
Organic carbon (C)	0.3		
Molybdenum (Mo) soluble in water	0.4		
Zinc (Zn) soluble in water	0.35		
Mannitol	1.0 g/L		
<i>Crops</i>			
Cereal crops		250-400	-
Floricultural and ornamental		250-400	5-10
Forages		250-400	-
Orchards		300-500	5-10
Industrial		250-400	5-10
Horticultural		300-500	5-10



CANTA®



Soil

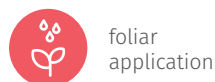
- Promotes microbial activity

Plant

- Boosts rooting development
- Promotes tissue growth

Fruit

- Increases dry matter



foliar application



fertigation



zero residue



bottle

1 L



jerry can

5/20 L

Canta is an organic biostimulant which contains bioactive molecules produced by the rhizosphere's *Streptomyces* spp.

The organic compound consists of *Ecklonia maxima*, yeast extracts, proteins and amino acids.

Canta ensures a starter and extended effect on the phenological stages of the plant, and strengthens the root and vascular systems, even in conditions of biotic and abiotic stress, granting an optimal hormonal balance.

Applied directly onto the leaves, it promotes cell division in plant tissues, fruit swelling and increases the dry matter content.

Applied by fertigation, it stimulates the microbial activity, by making available to the plant nutrients that are not quite mobile when in the soil, such as phosphorus and iron.

Its application does not require any previous preparation and has zero residue.

Composition	%	Dosage and method of use	ml/hl	l/ha
total Organic Nitrogen (N)	2	cultivation	foliar	fertigation
total Organic Carbon (C)	10	Cereal	200-400	10-20
Organic substance with nominal molecular weight < 50kDa	30	Flowering and Ornamental	200-400	10-20
		Forage	200-400	10-20
		Orchards	200-400	10-20
		Industrial crops	200-400	10-20
		Horticultural plants	200-400	10-20

GRAN RISERVA®



Plant

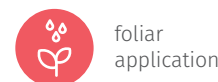
- Promotes the accumulation of reserve substances
- Promotes and accelerates natural leaf fall
- Boosts the structure and size of the buds

Flower

- Improves differentiation and structure

Fruit

- Increases fruit setting



foliar application



zero residue



jerry can

5/20 L

Gran Riserva is ideal for promoting the accumulation of reserve substances in deciduous and evergreens. Applied foliar, post-harvest it induces optimal bud dormancy.

The presence of lignin sulphonates gives the product strong surface-active and sequestering properties; the trace elements present, zinc and manganese, ensure greater resistance to biotic and abiotic agents.

Application at the maximum dose is particularly suitable in autumns with high temperature values and nutritional imbalances in the plant, as evidenced by late ripening.

Composition	%	Dosage and method of use	days (post-harvest)	l/ha
total Nitrogen (N)	5	cultivation		foliar
of which Urea Nitrogen (N)	5	Actinidia	60-30	10-20
Phosphorus Pentoxide (P ₂ O ₅)	13	Stone fruit	150-45	10-20
Manganese (Mn) complexed with Lignin sulfonic acid	0,3	Hazelnut tree	60-30	10-20
Zinc (Zn) complexed with Lignin sulfonic acid	0,3	Pistachio	45-30	10-20
		Tropicals	120-30	10-20
		Grapevine	120-30	10-20

The application at the highest dose is particularly suitable in autumns with high temperature values and nutritional imbalances in the plant evidenced by a delay in the ripening of the wood: it increases the dry matter content in the wood and induces an enlargement of the perulae in the buds.

Applied at the lowest dose even at vegetative restart, it exerts a biostimulating action on all crops.

The application of Gran Riserva is "zero residue".



KELPSTAR®

Plant

- Promotes new root formation

Flower

- Stimulates floral organs growth

Fruit

- Enhances fruit set and enlargement
- Increases dry matter



foliar application



fertigation



bottle

1 L



approved for organic farming



jerry can

5/20 L

Kelpstar is a natural concentrated extract of *Ecklonia maxima*. The high quality of this alga is ensured by the cold extraction process used during its manufacturing, free from heating or chemical substances.

Kelpstar is rich in amino acids, auxin-like phytohormones, carbohydrates and vitamins, that provide benefits to the plant such as resistance to biotic and abiotic stress and the enhancement of the production potential.

Kelpstar promotes the formation of new roots and floral organs growth, and contributes to fruit enlargement while increasing the dry matter. It can be applied either directly to the leaves or by

fertigation, in all phenological stages of the plant.

The use of Kelpstar is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	
			foliar	fertigation
Organic Nitrogen (N)	1	cultivation		
Organic Carbon (C)	10	Cereal	200-300	5-10
Organic substance with nominal molecular weight < 50kDa	30	Flowering and Ornamental	300-400	5-10
		Forage	200-300	5-10
		Orchards	300-400	5-10
		Industrial crops	300-400	5-10
		Horticultural plants	300-400	5-10

KELPSTAR® BORO

Flower

- Promotes the pollen formation
- Enhances fecundation
- Attenuates fruit drop

Fruit

- Increases fruit set



foliar application



bottle

1 L



approved for organic farming



jerry can

5/20 L

Kelpstar Boro is a natural concentrated extract of *Ecklonia maxima*, enriched with boron, especially created to stimulate flowering and fruit set.

Ecklonia maxima undergoes a specific mechanical cold extraction process - without heating or chemical processing - resulting in a concentrated liquid extract with an unaltered natural phytohormone.

Boron is the predominant element in the processes that determine the success of the fruit set. It particularly increases the flower induction, stimulates the germination of the pollen tube and increases the receptivity of the stigma.

The foliar application of Kelpstar Boro during pre-flowering improves the fruit set and the final production, both in quantitative and qualitative terms.

The use of Kelpstar Boro is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha
			foliar
Organic Nitrogen (N)	1	cultivation	
Organic Carbon (C)	10	Flowering and Ornamental	300-500
Boron (B)	8	Forage	300-500
Molybdenum (Mo)	0,01	Orchards	300-500
Organic substance with nominal molecular weight < 50kDa	30	Industrial crops	300-500
		Horticultural plants	300-500



MOVITA® line

Plant

- Uniforms dormancy breaking
- Reduces dormant buds

Flower

- Normalises flowering

Fruit

- Regulates fruit set



foliar application



zero residue



Movita jerry can

20 L



Movita Twin jerry can

5 L

Movita and Movita Twin are metabolism activators that act as dormancy breakers, promoting a uniform budding phase in deciduous fruit species.

The application of Movita and Movita Twin has zero residue.

Thanks to their formula, when applied directly to the leaves, these products are readily absorbed within the epigeal storage organs of the plant and, by reactivating the metabolic and enzymatic processes, have a decisive impact on the differentiation of mixed and/or flower buds.

Movita and Movita Twin regulate the development of shoots along the fruiting branch and contribute to increase plant production: from budding to harvest, plants show a greater vigour that is visible also in their final product.

For a better result, the treatment may be carried out close to the swollen bud phase, as the final solution is non-toxic for the plant.

Movita Twin must be added to Movita respecting doses of use and the final solution volume per surface unit, as indicated.

MOVITA®

Composition

	%
total Nitrogen (N)	17
of which Nitric Nitrogen (N)	10
of which Ammonia Nitrogen (N)	5,7
of which Urea Nitrogen (N)	1,3
water-soluble Calcium Oxide (CaO)	9

Dosage and method of use

cultivation	I/ha
Hardy kiwi (<i>Actinidia</i>)	80
Apricot tree	80
Cherry tree	100-120
Peach tree	80
Pistachio tree	100
Grapevine	100



I/ha

final solution volume

500-1000

Period

days from budding

30
25
30
25
25
30

MOVITA® TWIN

Composition

	%
total Nitrogen (N)	18
of which Urea Nitrogen (N)	18
water-soluble Phosphorus Pentoxide (P ₂ O ₅)	46

Dosage and method of use

cultivation	I/ha
Hardy kiwi (<i>Actinidia</i>)	20
Apricot tree	20
Cherry tree	25-30
Peach tree	20
Pistachio tree	25
Grapevine	25



I/ha

final solution volume

500-1000

Period

days from budding

30
25
30
25
25
30

MATURAU®



Fruit

- Accelerates and regulates ripening
- Completes and uniformes the epicarp colour
- Increases the sugar/acid ratio
- Increases shelf-life



foliar



bottle

1 L



zero residue



jerry can

5/20 L

Maturau is an organic biostimulant recommended for the completion of the ripening and colouring processes of the fruit, to be applied directly onto the leaves.

Maturau contains potassium complexed with organic molecules and natural extracts of jasmonic acid. Maturau acts mainly on fruit colouration by promoting the breakdown of chlorophyll and the synthesis and accumulation of anthocyanins, helping to strengthen the cell walls of plant tissues.

Maturau improves colour uniformity and the sugar/acid ratio, giving the fruit better flavour and shelf life.

Maturau must be applied when the fruit has reached 60% of the colour change of the epicarp, and on a plant that is properly hydrated and with no symptoms of water stress.

The specific formulation, characterised by a highly stickiness property, allows the product to be easily assimilated and totally metabolised, leaving no residue.

Composition	%	Dosage and method of use	ml/ha
total Nitrogen (N)	4	<i>cultivation</i>	<i>foliar</i>
of which Organic Nitrogen (N)	4	Flowering and Ornamental	500-1000
water-soluble Potassium Oxide (K ₂ O)	8	Orchards	500-1000
Organic Carbon (C)	19	Horticultural plants	500-1000
Organic compound	40		

NIGER L®



Plant

- Highly absorbable

Fruit

- Promotes fruit growing
- Increases dry matter



foliar



fertigation



bottle

1 L



approved for organic farming



jerry can

5/20 L

Niger L is a physio activator, with a high concentration of fulvic acids extracted from Leonardite, characterised by an acidic pH that improves its absorption through the plant tissues.

Its formula is particularly soluble and contains a great quantity of humified organic carbon, readily available.

Niger L application directly to the leaf is recommended throughout the plant cycle, to promote cell multiplication and biomass development. Applied during the post-fruit set, it stimulates fruit growing and increases dry matter.

Its high level of fulvic acids and absorption properties make for an efficient product, even if applied at low rates.

Niger L is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	l/ha
Organic Nitrogen (N)	0,5	<i>cultivation</i>	<i>foliar</i>	<i>fertigation</i>
Organic Carbon (C) dry basis	30	Flowering and Ornamental	100-200	3-10
Extractable Organic Carbon (C) on Total Organic Carbon	60	Orchards	200-300	3-10
Organic humified Carbon (C) on extractable Organic Carbon	60	Industrial crops	100-200	3-10
		Horticultural plants	100-200	3-10



PETALOSO®



Plant

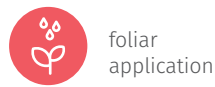
- Reduces nitrate concentration

Flower

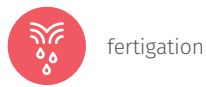
- Improves the structure
- Increases quantity and fertility of pollen

Fruit

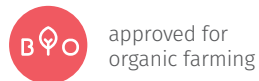
- Enhances fruit set



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

Petaloso is a liquid solution, indicated for plantations that mostly require boron and molybdenum. Its foliar application during flowering ensures a prompt response from the plant.

Boron improves the flower structure and promotes pollen formation: plants treated with Petaloso present flowers that are more attractive for pollinating insects and less subject to drop. The result is a better fruit set and a high quality production.

Molybdenum, an essential element in the processes of assimilation and use of nitrogen, helps reduce the nitrate concentration in plant tissues.

Petaloso is particularly recommended in periods of thermal stress during the plant cycle, when it is necessary to support flowering.

Petaloso is approved for organic farming.

Composition	%	Dosage and method of use	ml/hl	l/ha
water-soluble Boron (B)	8	<i>cultivation</i>	<i>foliar</i>	<i>fertigation</i>
water-soluble Molybdenum (Mo)	8	Flowering and Ornamental	300-500	2,5-5
		Forage	200-400	1,5-2
		Orchards	200-400	2,5-5
		Industrial crops	200-400	1,5-2
		Horticultural plants	300-500	2,5-5

TYSON®

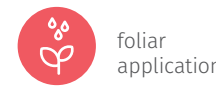


Soil

- Increases nutrients availability
- Promotes microbial activity

Plant

- Enhances photosynthesis
- Stimulates plant metabolism
- Improves root development



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

Tyson is a biostimulant coming out of vegetal sources, obtained from the enzymatic hydrolysis of the biomass of *Fabaceae*.

This particular extraction process does not denature the product elements, maintaining its high concentration of active compounds and keeping unchanged all the characteristics of the vegetal extract.

Tyson can be easily absorbed, as it is rich in short-chain nitrogen proteins. The free L-amino acids improve and catalyse the photosynthesis in plants, resulting in a greater transfer of metabolites to fruits.

If applied directly to the leaves, Tyson promotes the plant development and increases the resistance to biotic and abiotic agents; through fertigation, it activates the bacterial flora in the soil. Its application is recommended throughout the life cycle of plants.

Tyson is approved for organic farming.

Composition	%	Dosage and method of use	ml/hl	l/ha
Organic Nitrogen (N)	5	<i>cultivation</i>	<i>foliar</i>	<i>fertigation</i>
Organic Carbon (C)	20	Cereal	300-400	5-10
		Flowering and Ornamental	300-400	5-10
		Forage	300-400	5-10
		Orchards	300-400	5-10
		Industrial crops	300-400	5-10
		Horticultural plants	300-400	5-10



TONICAL® line

Plant

- Prevents the occurrence of calcium deficiency symptoms

Fruit

- Improves compactness
- Strengthens cell walls
- Increases shelf-life

The Tonical line consists of calcium-activated biostimulant nutrients with amino acids and peptides from extracted from brown seaweed *Ecklonia maxima*.

The special organic formulation carries calcium into the cell membrane, increasing the speed and effectiveness of assimilation. Calcium plays a key role in thickening and strengthening cell walls and improving fruit firmness.

Application with Tonical and Biotonical from fruit set to just before harvest improves the texture, organoleptic characteristics and shelf-life of the final product; Tonical and Biotonical prevent calcium deficiency issues such as apical rot, fruit splitting and marginal leaf necrosis.

Tonical and Biotonical can be administered by foliar application or by fertigation; the results of application are readily appreciable.

The use of Biotonical is authorised in organic farming.

Tonical



foliar application



fertigation

Biotonical



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

TONICAL®

Composition

	%
Total nitrogen (N)	9
Of which (N) organic soluble in water	4
Total water-soluble calcium (CaO)	8
Of which (CaO) calcium complexed	6
Total amino acids	25
Free amino acids	15

Doses and methods of use

Crops	ml/ha	l/ha
	foliar	fertigation
Cereal crops	300-400	-
Floricultural and Ornamental	300-400	5-10
Forages	300-400	-
Orchards	400-500	5-10
Industrial	300-400	5-10
Horticultural	300-400	5-10



BIOTONICAL®

Composition

	%
Nitrogen total organic (N)	6
Carbon total organic (C)	18
Calcium oxide (CaO)	8

Doses and methods of use

Crops	ml/ha	l/ha
	foliar	fertigation
Cereal crops	300-400	-
Floricultural and Ornamental	300-400	5-10
Forages	300-400	-
Orchards	300-400	5-10
Industrial	300-400	5-10
Horticultural	300-400	5-10





UPPER GROW®

Soil

- Increases nutrients availability

Plant

- Regulates vigour
- Increases radical assimilation

Fruit

- Promotes growing and ripening



foliar application



fertigation



bottle

1 L



jerry can

5/20 L

Upper Grow is an innovative biostimulant, rich in nitrogen and potassium, that can be applied either directly onto the leaves or onto the soil, to be absorbed in the roots.

The foliar application enables you to control the opening and closing mechanism of the stomata. Upper Grow, applied during fruit growing and ripening phases, has an effect on the quality of the final product, providing fruits with greater flavour and shelf life, and increasing their colour and sugar content.

Upper Grow, applied to the soil and absorbed in the roots, improves the physicochemical properties of the soil, stimulating the biological activity of

soil microorganisms and increasing the cation exchangeability. The organic chelating formulation of potassium contributes to lower the root water potential, improving the absorption of water and nutrients within the roots.

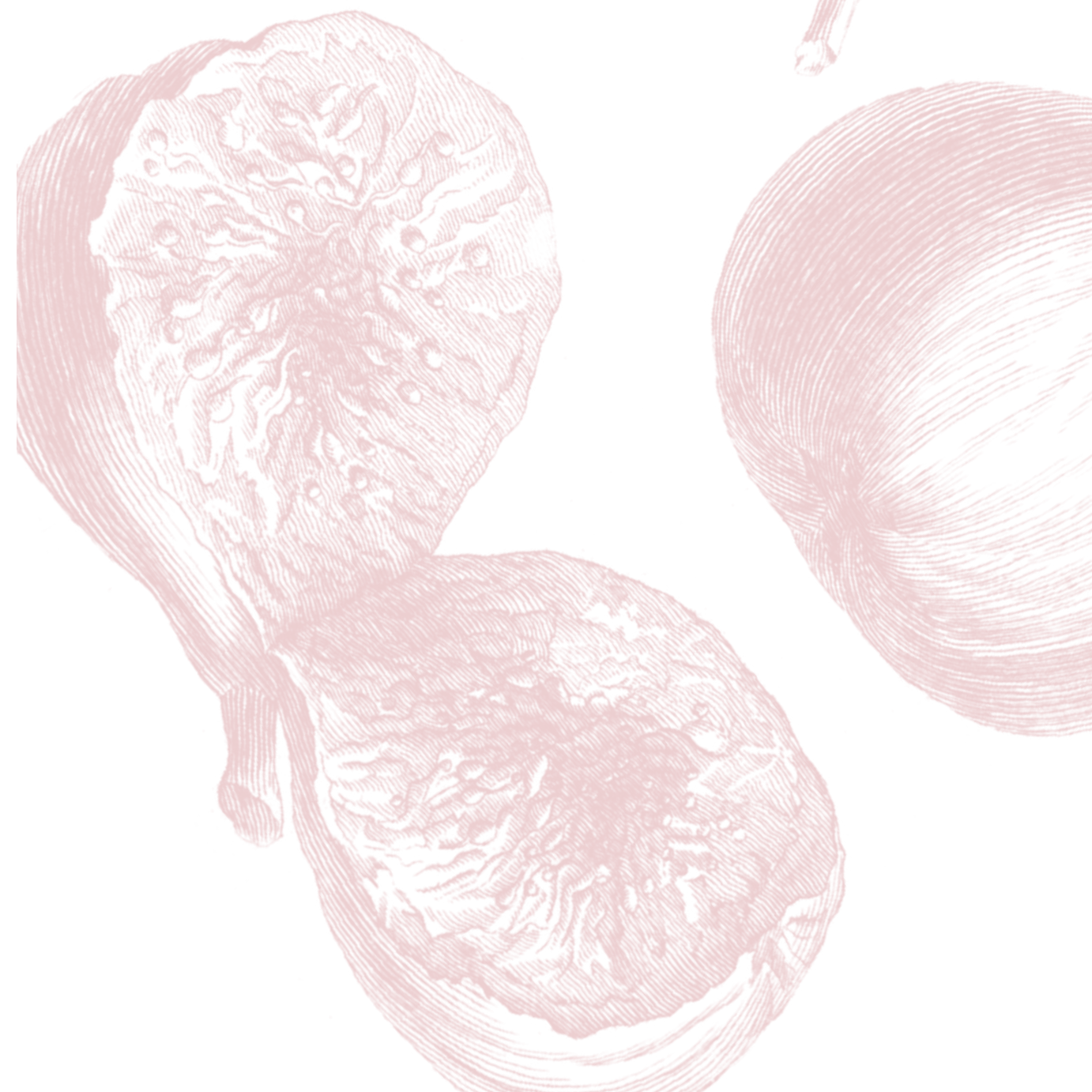
The application of Upper Grow prevents the onset of physiopathies from the deficiency and/or low efficiency of the available potassium.

Composition

	%
total Nitrogen (N)	4
of which Organic Nitrogen (N)	4
water-soluble Potassium Oxide (K ₂ O)	10
Organic Carbon (C)	19
Organic matter	40

Dosage and method of use

cultivation	ml/ha	
	foliar	fertigation
Flowering and Ornamental	300-400	5-10
Forage	300-400	5-10
Orchards	400-500	5-10
Industrial crops	300-400	5-10
Horticultural plants	300-400	5-10

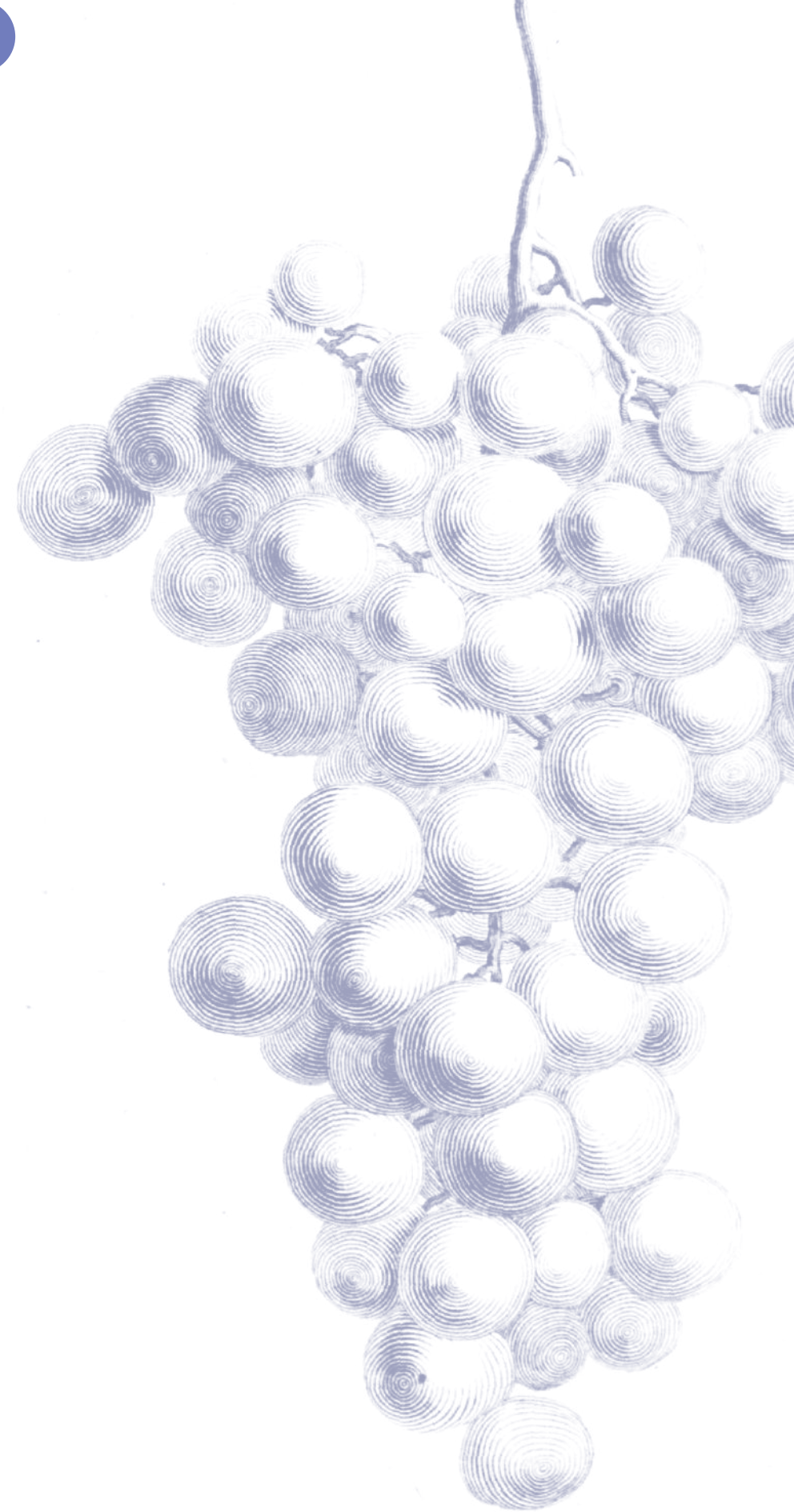




Resistance inducers

The Resistance Inducers category contains **ELICITORS** or **PLANT DEFENCE ACTIVATORS**; they stimulate the natural production of metabolites involved in the defensive response to biotic (pathogens and parasites) or abiotic (climatic, physical and chemical agents) stress, giving the plant greater resistance and vitality.

The innovative formulations of all resistance inducers provide a valid support, as an alternative or completion, to traditional technical means, in the context of a more and more sustainable farming integrated protection.





BOS®



Plant

- Increases self-defence against cryptogams and insects
- Ensures a healthier growth

Fruit

- For a glossy epicarp



foliar application



bottle

1 L



zero residue



jerry can

5/20 L

Bos is a formulation of vegetal origin containing polyunsaturated fatty acids that activate the defence mechanisms of the plant.

Bos acts in the interactions between plant and harmful organisms, representing a valid solution to reduce the resistance of pathogens towards the synthesis molecules.

Plants treated with Bos appear healthier and their fruits present a glossy epicarp.

In addition to being a non-residual product, included in integrated pest management programs, it enables the reduction of active ingredients, in compliance with an increasingly sustainable

agriculture. Bos is not caustic to plants even at high doses and can be used throughout the year, as needed.

Composition	%	Dosage and method of use	ml/ha
Vegetable oil suspended in water	48	<i>cultivation</i> Flowering and Ornamental Forage Orchards Industrial crops Horticultural plants	<i>foliar</i> 500-1000 500-1000 500-1000 500-1000 500-1000

FOSFIPOTASS®



Plant

- Increases self-defence
- Disinfects the root system
- Strengthens tissues



foliar application



fertigation



bottle

1 L



jerry can

5/20 L

Fosfipotass is a liquid fertiliser containing high levels of pure phosphorus and potassium.

A good availability of phosphorus and potassium in plants ensures a prompter response of natural defence mechanisms against biotic and abiotic agents; Fosfipotass promotes the development of root biomass and stimulates the self-defence of plants by increasing the synthesis of phytoalexins.

The formulation is characterised by its high mobility within plants, being easily absorbed within plant tissues, suitable thus for foliar application or fertigation.

Composition	%	Dosage and method of use	ml/ha	l/ha
water-soluble Phosphorus Pentoxide (P ₂ O ₅)	30	<i>cultivation</i> Cereal Flowering and Ornamental Forage Orchards Industrial crops Horticultural plants	<i>foliar</i> 200-300 200-300 200-300 200-300 200-300 200-300	<i>fertigation</i> 5-10 5-10 5-10 5-10 5-10 5-10
water-soluble Potassium Oxide (K ₂ O)	20			



HYPERPHOSE®



Plant

- Increases productivity

Fruit

- uniformes fruiting production
- Reduces the percentage of deformed fruit



foliar application



bottle

1 L



zero residue



jerry can

5/20 L

Hyperphose has a tissue greening and disinfectant action, ensuring better resistance to biotic and abiotic agents, thanks to its zinc and manganese content. The application of Hyperphose is particularly indicated when the crop shows "energy deficit" and root assimilation is reduced due to unfavorable soil thermal values.

It can also be used to promote flower differentiation in horticultural species. Thanks to its specific formulation, Hyperphose does not create toxicity and can be used even in the presence of open flowers.

Hyperphose's application has zero residue.

Composition	%	Doses and methods of use	ml/ha
Total nitrogen (N)	6	<i>Crops</i>	<i>foliar</i>
Of which urea (N)	6	Floricultural and Ornamental	100-200
Phosphorus anhydride (P ₂ O ₅)	15	Horticultural	100-200
Magnesium oxide (MgO)	2		
Manganese (Mn)	0.3		
Zinc (Zn) complexed with Lignin sulfonic acid	0.3		

LIRA



Plant

- Prevents copper deficiencies
- Stimulates natural self-defence



foliar



bottle

1 L



approved for organic farming



jerry can

5/20 L

Lira is a copper-based resistance inductor with lignosulphonates: natural organic agents extracted from lignin, with strong humectant properties, that promote the absorption of copper within plant tissues. With their humectant effect, lignosulfonates prevent the crystallisation of the microelement on the leaf surface.

Thanks to its organic formulation, Lira quickly penetrates into the plant tissues, increasing the copper absorption and improving its effectiveness. Copper is recognised as the most important microelement for autumn-winter cereals: Lira, applied in the pre-tillering phase, improves their yield and quality and moderates their susceptibility to pathogens.

Lira has a high resistance to leaching and allows, in compliance with current legislation, to effectively nourish plantations and reduce the copper doses per hectare. It is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	l/ha
water-soluble Copper (Cu)	5	<i>cultivation</i>	<i>foliar</i>	<i>spray</i>
total chelated Copper (Cu) complexed with Lignin sulfonic acid	4,2	Cereal	-	1,5-2
		Flowering and Ornamental	300-400	-
		Forage	-	2,5-3
		Orchards	300-500	-
		Industrial crops	300-500	-
		Horticultural plants	300-500	-



NATURAL ZEOLITE



Soil

- Improves the physical and chemical properties

Plant

- Stimulates natural self-defence
- Reduces excessive external humidity on plant tissues



foliar application



bucket

10 kg



approved for organic farming

Natural Zeolite is a mineral of volcanic origin with regular crystalline structure, good cation exchange capacity (CEC) and high microporosity. These features characterise the product with a high hygroscopic power, allowing it to hydrate and dehydrate reversibly and to absorb water molecules even at low concentrations, releasing them gradually as the temperature rises.

Natural Zeolite is an extremely versatile product: it can be used by foliar application (powder or suspension) to increase the plant resistance to biotic and abiotic stress; as a soil improver, to enhance the soil in terms of physical and chemical properties and permeability, and as a substrate,

mixed with other types of substrates, for container gardening.

Applied directly onto the leaves, it offers, in addition to controlling the temperature and transpiration of leaves and fruits, a repellent action against parasites and pathogens.

Natural Zeolite can be used up to the moment of harvest, leaving no residues and presenting no waiting period. It is approved for organic farming.

Composition

Natural Zeolite	100 %
Zeolite composed of Clinoptilolite	
Cation exchange capacity (CEC)	200 cmol/kg
Granulometry	0,02 mm

Dosage and method of use

	g/hl	kg/ha
<i>cultivation</i>	<i>suspension</i>	<i>powder</i>
Cereal	200-300	5-10
Flowering and Ornamental	200-300	5-10
Forage	200-300	5-10
Orchards	200-300	5-10
Industrial crops	200-300	5-10
Horticultural plants	200-300	5-10

RAMEFLOR®



Plant

- Prevents copper deficiency
- Stimulates natural self-defence



foliar application



bottle

1 L



approved for organic farming



jerry can

5/20 L

Rameflor is a liquid formulation containing copper oxychloride, boron and manganese. The liquid formulation avoids the issues related with the preparation of the final solution using soluble powders, guaranteeing greater safety for the operator and better distribution and stickiness.

As Rameflor presents a good stickiness, it is perfect for autumn and spring treatments, curing microelement deficiencies in particularly demanding cultivations; its application also makes plants more resistant to parasites, supporting the lignification of tissues.

Rameflor is approved for organic farming.

Composition

water-soluble Boron (B)	0,2
total Copper (Cu)	25
water-soluble Manganese (Mn)	0,5

Dosage and method of use

	ml/hl	l/ha
<i>cultivation</i>	<i>foliar</i>	<i>spray</i>
Cereal	-	1,5-2
Flowering and Ornamental	250-350	-
Forage	-	2,5-3,5
Orchards	250-350	-
Industrial crops	250-350	-
Horticultural plants	250-350	-



STATIA®

Plant

- Limits the excessive vigour of the plant
- Strengthens the leaf surface
- Improves lignification
- Promotes tissues cicatrisation

Fruit

- Helps to enhance coloration



foliar



bottle

1 L



zero residue



jerry can

5/20 L

Statia is a resistance inducer with a completely soluble and innovative formulation, readily absorbable within plant tissues. It is the perfect product to promote the thickening of the leaf blade and the lignification of tissues.

Depending on the applied dose, Statia controls the plant vigour by shifting the sink-source balance towards flowering and production; if applied close to the veraison, it promotes sugar synthesis and degradation of acids.

Statia can be applied regularly throughout the life cycle of the plant, helping to maintain its healthy conditions and to limit the number of active ingredients used in defence strategies.

In addition, Statia performs a healing action on plant tissues and its use is also recommended after green pruning interventions, on both horticultural and tree cultivations.

Statia's application has zero residue.

Composition	%	Dosage and method of use	ml/ha
water-soluble Phosphorus Pentoxide (P_2O_5)	10	<i>cultivation</i>	<i>foliar</i>
water-soluble Potassium Oxide (K_2O)	7	Cereal	500-1000
water-soluble Magnesium Oxide (MgO)	2	Flowering and Ornamental	500-1000
complexed with Lignin sulfonic acid		Forage	500-1000
		Orchards	500-1000
		Industrial crops	500-1000
		Horticultural plants	500-1000

TOCUZIN®

Plant

- Stimulates natural self-defence
- Increases phytohormone synthesis
- Reduces excessive external humidity on plant tissues
- Disinfects the root system
- Prevents copper and zinc deficiencies



foliar



fertigation



bottle

1 L



approved for organic farming



jerry can

5/20 L

Tocuzin is a resistance inducer containing copper and zinc chelated with citric acid. The innovative organic chelation process allows the rapid distribution of microelements within the plant, also thanks to low values of pH and molecular weight.

The absorption rate due to chelation with citric acid is very high: 50% of zinc is assimilated by leaves in only 3 hours compared to 2 days for zinc sulphate and 24 hours for EDTA chelated zinc.

Tocuzin is a specific product to treat copper and zinc deficiencies. Thanks to its formulation, it stimulates the self-defence of plants and can be assimilated both in the leaves and in the roots; it

naturally induces a lower susceptibility to fungal and bacterial diseases in plantations.

Treated with Tocuzin, the plant acquires an intense green colour and, after some time, it shows a greater vigour, which is essential to overcome periods of thermal stress. Can also be used during flowering, is non-toxic to the plant and pollinating insects

Tocuzin is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	l/ha
water-soluble Copper (Cu)	2	<i>cultivation</i>	<i>foliar</i>	<i>fertigation</i>
water-soluble Zinc (Zn)	4	Cereal	300-400	5-10
		Flowering and Ornamental	300-400	5-10
		Forage	300-400	5-10
		Orchards	400-500	5-10
		Industrial crops	300-400	5-10
		Horticultural plants	300-400	5-10



ZULEMA®

with M.A.S. technology



Plant

- Improves rhizosphere conditions.
- Nourishes the microbiota
- Mobilizes phosphorus and trace elements
- Does not create toxicity
- Increases attractiveness to pollinating insects
- No residues on crops
- Optimizes production yield



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

Zulema is a 'biodigested' sulphur-based soil conditioner of microbiological origin, obtained by a process of mineral sulphur transformation by bacteria of the genus *Thiobacillus*.

It can be applied to the soil, even in fertigation, and rapidly improves soil conditions by mobilising nutrients and ensuring better and continuous availability.

Zulema can be used in foliar treatments as a mixture with other products even if its function is that of a corrective. When used by foliar application, it rapidly penetrates plant tissue and has a high resistance to leaching.

It creates conditions for the colonisation and development of natural symbiont micro-organisms. Zulema, unlike other sulphur products, does not stain plant tissue, is not phytotoxic to the crop and leaves no residue.

The use of Zulema is authorised in organic farming.

Composition

Sulphur (S)

%
40

Doses and methods of use

	ml/ha	l/ha
Crops	foliar	fertigation
Cereal crops	350-450	10-20
Floricultural and Ornamental	250-400	10-20
Forages	400-500	10-20
Industrial	400-500	10-20
Horticultural	300-400	10-20
Orchards	350-450	10-20





Meso and micronutrients

The Mesonutrients and Micronutrients category comprises liquid and water-soluble formulations, based on mesonutrients and micronutrients in a chelated and/or complexed form, ready to be assimilated by leaves and roots in cultivation fields.

The innovative formulation of some products includes, in addition to the EDTA and EDDHA chelating agents, natural and biodegradable **ORGANIC COMPLEXING AGENTS**.

The chelated and complexed elements are better accepted by all types of plants and guarantee minimum or zero residue. The complexing agents ensure a better protection of the metal ion and a high availability of this element, even at lower concentrations.





ETIBOR®



Plant

- Increases flower induction
- Enhances production

Flower

- Stimulates pollen tube germination
- Boosts pollen fertility
- Improves stigma receptivity



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

Etibor is a liquid fertiliser based on boron ethanolamine, suitable for foliar application and fertigation.

The combination of boron and the chelating organic component ensures the immediate absorption of nutrients within the meristematic tissues, without causing phytotoxicity problems to the plant.

Etibor, applied directly to the leaves at pre-flowering, increases the pollen fertility and, consequently, the fruit set. Applied by fertigation close to the fruit ripening stage, Etibor promotes the sugar synthesis and translocation.

Etibor is suitable for those cultivations requesting high levels of boron, such as crucifers: its use is recommended on olive trees to improve fruit set, on celery cultivation to prevent splitting of the stalks.

The use of Etibor is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	
			foliar	fertigation
water-soluble Boron (B)	11			
		<i>cultivation</i>		
		Cereal	100-300	2-5
		Flowering and Ornamental	100-300	2-5
		Forage	100-300	2-5
		Orchards	100-300	2-5
		Industrial crops	100-300	2-5
		Horticultural plants	100-300	2-5

MACAL®



Plant

- Reduces physiopathies from Ca and Mn deficiencies
- Promotes leave enlargement
- Stimulates photosynthesis

Fruit

- Prevents apical rot
- Improves organoleptic properties



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

Macal is a liquid formulation that provides the simultaneous supply of calcium and magnesium, with the result of strengthening plant tissues and stimulating photosynthetic activity.

It prevents and cures, quickly and effectively, physiopathies from calcium and magnesium deficiencies, such as apical rot of tomatoes, necrosis of grape stalks, upward curling and necrosis of strawberry leaves.

Macal is specially indicated for cultivations of fruits and horticultural plants and is effective when applied directly onto the leaves or by fertigation. The use of Macal is approved for organic farming.

Composition	%	Dosage and method of use	ml/ha	
			foliar	fertigation
water-soluble Calcium Oxide (CaO)	15			
water-soluble Magnesium Oxide (MgO)	5			
		<i>cultivation</i>		
		Flowering and Ornamental	200-300	2-3
		Orchards	200-300	2-3
		Industrial crops	200-300	2-3
		Horticultural plants	200-300	2-3



MEGAFER® line

Soil

- High stability and solubility in the 2 - 11 pH range
- Effectiveness guaranteed in different environmental and agronomic conditions

Plant

- Prevents and treats iron chlorosis
- Long-lasting effect to obtain greener plants



fertigation



carton box

1/5 kg



approved for organic farming

Megafer and Megafer Plus are iron chelates in the micro-granules form, highly soluble in water. The EDDHA chelating agent guarantees stability to the soil, high persistence and efficacy of the microelement release.

Thanks to the optimal isomeric balance, Megafer and Megafer Plus are the ideal products for the prevention and treatment of iron chlorosis, ensuring high effectiveness at reduced doses. In addition, Megafer and Megafer Plus promote the absorption of other microelements.

Megafer provides the immediate release of iron and ensures its prompt use for the plant, thanks to the higher level of ortho-para (o-p) isomer, if compared to Megafer Plus.

Megafer Plus, on the other hand, features a higher content of ortho-ortho (o-o) isomer, promoting a gradual release of iron over time and a greater stability in the soil.

The Megafer Line is approved for organic farming.

MEGAFER®

Composition e characteristics

	%
water-soluble Iron (Fe)	6
Iron (Fe) [o,o] EDDHA chelate	3,5
Iron (Fe) [o,p] EDDHA chelate	2,5
Solubility 300 g/l	



Dosage and method of use

cultivation

Flowering and Ornamental
Orchards
Industrial crops
Horticultural

treatment

preventive
preventive
preventive
preventive

g/m²

application to soil
3-5
50-90 g/plant
3-5
3-5

treatment

curative
curative
curative
curative

g/m²

application to soil
6-10
70-120 g/plant
6-10
6-10

MEGAFER® PLUS

Composition e characteristics

	%
water-soluble Iron (Fe)	6
Iron (Fe) [o,o] EDDHA chelate	4,8
Iron (Fe) [o,p] EDDHA chelate	1,2
Solubility 250 g/l	



Dosage and method of use

cultivation

Flowering and Ornamental
Orchards
Industrial crops
Horticultural

treatment

preventive
preventive
preventive
preventive

g/m²

application to soil
1-3
30-50 g/plant
1-3
1-3

treatment

curative
curative
curative
curative

g/m²

application to soil
3-5
50-70 g/plant
3-5
3-5



MUGASOL[®] MIX

Plant

- Prevents and cures physiopathies from microelements deficiencies
- Promotes photosynthesis
- Increases natural defences

Fruit

- Enhances organoleptic characteristics



foliar application



fertigation



bucket

10 kg



approved for organic farming

Mugasol Mix is a blend of highly soluble microelements, recommended to prevent and cure physiopathies from nutritional deficiencies.

Since an efficient control of micro-deficiencies is key, the microelements play an extremely important role, for a regular development of the plant and a plentiful fruit set. The chelation process protects the metal ion within the microelement, increasing its uptake in the roots and the leaves during soil or foliar applications.

The high amount of manganese and zinc gives Mugasol Mix distinctive nutritional features: manganese is a catalyst that enters the synthesis

cycle of enzymes related to the production of chlorophyll, while zinc is a crucial microelement for the hormonal balance of the plant and for the control of auxin level.

The use of Mugasol Mix is approved for organic farming.

Composition	%	Dosage and method of use	g/hl	kg/ha
water-soluble Boron (B)	2	<i>cultivation</i>	<i>foliar</i>	<i>fertigation</i>
EDTA chelated Copper (Cu)	1	Cereal	100-300	3-5
EDTA chelated Iron (Fe)	2	Flowering and Ornamental	100-300	3-5
water-soluble Manganese (Mn)	13	Forage	100-300	3-5
water-soluble Zinc (Zn)	8	Orchards	100-300	3-5
		Industrial crops	100-300	3-5
		Horticultural	100-300	3-5

MUGASOL[®] MIX L

Plant

- Prevents and cures physiopathies from microelements deficiencies
- Promotes photosynthesis
- Increases natural defences
- Prompt assimilation

Fruit

- Enhances organoleptic characteristics



foliar application



fertigation



approved for organic farming



bottle

1 L



jerry can

5/20 L

Mugasol Mix L is a blend of microelements indicated to prevent and cure physiopathies from nutritional deficiencies. The microelements in Mugasol Mix L are complexed with citric acid, for a faster absorption within the plant.

The organic chelates increase the product effectiveness, even at low doses and in different environmental conditions.

Mugasol Mix L quickly improves, soon after a few hours from the application, the vegetative state of the plant and raises its resistance to adverse biotic conditions.

Mugasol Mix L, added to fertigation with macroelements, intensifies its effectiveness and completes the nutritional supply.

The use of Mugasol Mix L is approved for organic farming.

Composition	%	Dosage and method of use	ml/hl	l/ha
water-soluble Boron (B)	0,45	<i>cultivation</i>	<i>foliar</i>	<i>fertigation</i>
water-soluble Copper (Cu)	0,50	Cereal	100-300	3-5
water-soluble Iron (Fe)	2,00	Flowering and Ornamental	100-300	3-5
water-soluble Manganese (Mn)	3,00	Forage	100-300	3-5
Water-soluble Molybdenum (Mo)	0,01	Orchards	100-300	3-5
water-soluble Zinc (Zn)	3,00	Industrial crops	100-300	3-5
		Horticultural	100-300	3-5



SERCAL®

Soil

- Sub-acid reacting

Plant

- Prevents and treats calcium deficiency pathophysiologies
- Strengthens cell walls

Fruit

- Improves texture
- Increases shelf-life



fertigation



bottle

1 L



jerry can

5/20 L



approved for organic farming

Sercal is a new-generation fluid fertilizer with a high calcium concentration and a sub-acid reaction that facilitates root uptake.

Sercal, containing calcium formate, is designed to increase the mechanical strength of cell walls and reduce physiological damage on fruit, is rapidly absorbed by the plant and quickly translocated through the plant.

Sercal is suitable for fertigation of all crops specifically for fertigation of vegetable crops in open field and greenhouse; it is also usable for foliar applications on extensive field crops.

The use of Sercal is approved for organic farming.

Composition

	%
water-soluble Calcium Oxide (CaO)	24
water-soluble Boron (B)	0.2
EDTA chelated Zinc (Zn)	0.1

Doses and methods of use

	kg/ha
<i>Crops</i>	<i>fertigation</i>
Cereal	5-10
Flowering and Ornamental	5-10
Forage	5-10
Orchards	5-10
Industrial crops	5-10
Horticultural	5-10



Water and soil correctors

The Water and Soil Correctors category embraces specific formulations that solve field issues related to the characteristics of the irrigation water and/or cultivation soil.

The use of Water and Soil Correctors is particularly recommended to correct the bicarbonate level of calcareous soils,

to increase the organic substance and reduce the salinity of the soil, and to limit the emission of ammonia-nitrogen in the atmosphere.





ACIDAM®



Water

- Dissolves bicarbonates
- Lowers pH
- Increases the availability of dissolved nutrients
- Ensures the cleaning of microfluidic systems

Soil

- Moves and makes assimilable the unavailable elements



fertigation



sustainable packaging



jerry can

5/20 L

Acidam is an acid reaction nitrogen corrector with a high percentage of sulfuric anhydride. If applied by fertigation, it has a dissociating effect of chlorides and bicarbonates and a descaling action in microfluidic irrigation systems.

The acid reaction of the solution particularly increases the availability of macro and microelements retained by the colloids in the soil, such as phosphorus and iron, thus correcting the nutritional imbalances of the plant, like iron chlorosis.

The nitrogen in the urea form is less susceptible to leaching and therefore more available for plants.

Composition	%	Dosage and method of use	l/m ³
total Nitrogen (N)	15	bicarbonate content (mg/L)	fertigation
of which Urea Nitrogen (N)	15	50	0.049
Sulfur Trioxide (SO ₃)	40	100	0.098
		200	0.193
		400	0.387

To reduce the pH reaction of the irrigation water and neutralise 90% of the total bicarbonate content accurately, refer to the following table

MIDOTEC® FORMULA



Soil

- Improves the efficiency of livestock manure
- Stabilises ammonia nitrogen
- Reduces Nitrogen losses



mechanical application



sustainable packaging



jerry can

20/1000 L

Midotec Formula is a stabiliser of the nitrogen coming from livestock manure, containing 3,4-Dimethylpyrazole Phosphate.

During the anaerobic digestion process that the livestock manure undergoes (bio-digestion), the organic nitrogen is mineralised in the form of ammonia nitrogen, which normally would be lost in the environment right after the application. The product of this digestion can thus be used as fertiliser for the most relevant plantations: with Midotec Formula the ammonia nitrogen is stabilised thanks to the inhibitory action of nitrifying bacteria, making it available for plants for 8-12 weeks.

Composition	%	Dosage and method of use	l/ton	l/ha
Solution containing 3,4 DMPP (3,4 Dimethylpyrazole Phosphate)	10	treatment	sewage	area
		Livestock manure	0,2	-
		Soil	-	2

Midotec Formula reduces nitrogen losses to the environment caused by the leaching of nitrates and gaseous emissions of nitrous oxide. Consequently, in addition to an environmental benefit, it promotes the absorption of nitrogen in the plant, with a significant increase in production.

Midotec Formula can be mixed with the bio-digest product or, after its dilution with water, spread directly on the fertilised soil with livestock manure.



NICAL[®] L

Water

- Lowers pH value

Plant

- Satisfies calcium needs
- Strengthens cell walls

Fruit

- Enhances consistency



fertigation



sustainable packaging



jerry can

5/20 L

Nical L is an acid solution containing calcium and nitrogen, to be applied by fertigation, that ensures the right amount uptake of these elements by plants.

The product, easily assimilated in the roots, improves the fruit characteristics in terms of dimension and consistency: it thickens the epicarp and provides resistance to cracking, increasing its shelf-life.

Nical L application is recommended for all types of cultivation and, in particular, from fruit set to just before harvesting.

The liquid formulation allows a prompt use of Nical L, without having to respect the usual dissolving times of a similar water-soluble granular product.

Composition	%	Dosage and method of use	l/ha
total Nitrogen (N)	10	<i>cultivation</i>	<i>fertigation</i>
of which Urea Nitrogen (N)	10	Cereal	20-30
water-soluble Calcium Oxide (CaO)	18	Flowering and Ornamental	30-40
		Forage	5-10
		Orchards	30-40
		Industrial crops	20-30
		Horticultural	20-30

SINSAL[®]

with M.A.S. technology



Soil

- Lowers salinity
- Promotes the flocculation of colloids
- Enhances the structure

Plant

- Reduces physiopathies from sodium accumulation



fertigation



approved for organic farming



sustainable packaging



bottle

1 L



jerry can

5/20 L

Sinsal is an innovative formulation, to be applied by fertigation, containing organic and inorganic components suitable for correcting the salinity of the soil.

The organic part is composed of halophilic bacteria and organic acids, while the inorganic part is composed of calcium, sulfur and microelements. Halophilic bacteria balance the osmotic pressure of the circulating solution, improving elements uptake by plants.

Thanks to the acidifying capability of sulfur, Sinsal removes and makes the sodium accumulated in the colloids of the soil insoluble, replacing it with calcium.

Sinsal promotes the well-being and the development of the plant, by mobilising the micronutrients present in the soil and improving its structure.

Sinsal is approved for organic farming.

Composition	Dosage and method of use	l/ha
Rhizosphere bacteria 4*10 ⁷ CFU/ml	<i>cultivation</i>	<i>fertigation</i>
<i>Bacillus spp.</i>	Orchards	5-10
<i>Bacillus subtilis</i>	Horticultural	5-10
Mycorrhizae 0.001% w/w		
<i>Glomus sp.</i>		



UCIDAM®



Soil

- Enhances structure and permeability
- Increases fertility

Seed

- Improves germination

Plant

- Promotes the absorption of nutrients



foliar application



fertigation



sustainable packaging



bottle

1 L



jerry can

5/20 L

Ucidam is a bio-activator in the form of concentrated liquid, which contains humic and fulvic acids extracted from Leonardite. Organic carbon and humic and fulvic acids promote the formation of colloidal complexes and improve the physical and chemical properties of the soil by making the heavy metals present therein unavailable.

Ucidam, applied by fertigation, acts in the structure of the soil and its cation-exchange capacity, increasing fertility, intensifying the imbibition of colloids and improving the water availability for plants.

The low molecular weight and the capacity to be easily absorbed makes it suitable for foliar application, exerting a stimulating action in the metabolism of the plant.

Ucidam can be used throughout the phenological stages of the plant, as needed.

Composition

Organic matter (as-is basis)

12

Characteristics in % of dry matter:

Total organic matter

60

Humified organic matter as % of organic matter

80

Organic nitrogen (N)

0,4

C/N ratio

75

Dosage and method of use

cultivation

Cereal

Flowering and Ornamental

Forage

Orchards

Industrial crops

Horticultural

ml/ha

foliar

100-200

100-200

100-200

100-200

100-200

100-200

l/ha

fertigation

10-20

10-20

10-20

10-20

10-20

10-20

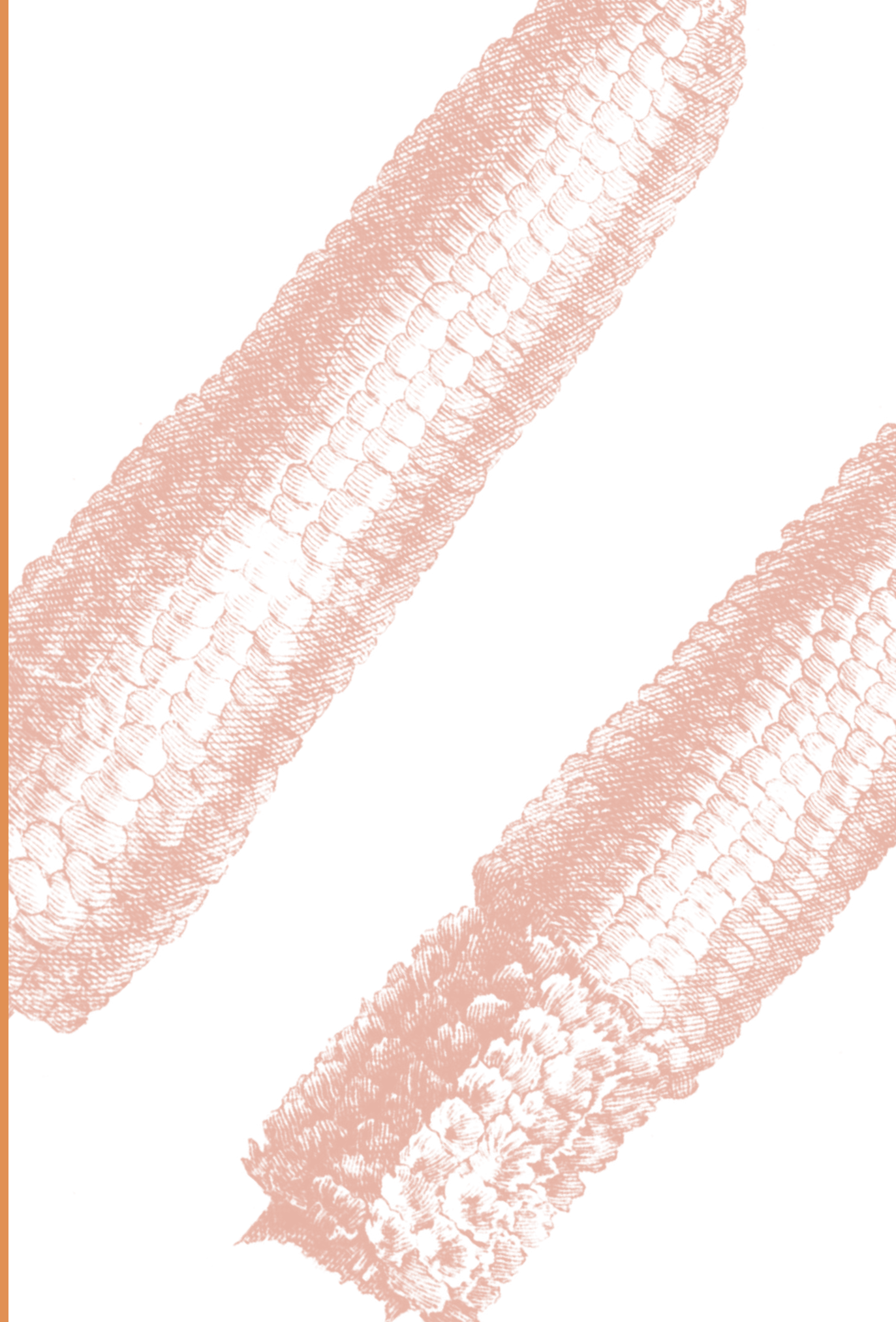


Gel and foliar

The Gel and Foliar product range includes gel, liquid and powder fertilisers for foliar application. These products are distinguished by their **HIGH PURITY**, **SOLUBILITY** and **STICKINESS** to the leaf surface.

The formulations do not involve the use of heavy metals, chlorine and carbonates, which can have caustic effects on plants and release residues.

The foliar nutrient supply is particularly useful in situations of reduced assimilation by roots and in moments of increased demand of nutrients in a plantation, improving the production in terms of quantity and quality.





AZOFLASH®



Plant

- Nourishing effect to obtain greener plants
- High absorbing properties



foliar application



sustainable packaging



jerry can

5/20 L

Azoflash is a liquid formulation containing a high concentration of Nitrogen with urease inhibitor (NBPT), for foliar application. It presents the three Nitrogen forms (nitric, ammonia and urea) perfectly balanced, and is able to satisfy the nitrogen needs of plants during the whole vegetative cycle.

The presence of the urease inhibitor NBPT prevents the gasification of urea nitrogen, reducing losses and maximising its absorption.

Thanks to its absorbing properties, Azoflash is able to reduce the physiological stress of the plant; it is particularly suitable for cereal cultivations from late tillering to earing, to improve the quality of

the grain. The application during earing allows the cereal plant to obtain an increase of the specific weight and, therefore, a growth of the production quantity.

Composition	%	Dosage and method of use	ml/hl	l/ha
total Nitrogen (N)	30	<i>cultivation</i>	<i>foliar</i>	<i>spray</i>
of which Nitric Nitrogen (N)	7,5	Cereal	-	5-20
of which Ammonia Nitrogen (N)	7,5	Forage	-	5-20
of which Urea Nitrogen (N)	15	Orchards	200-300	-
Urease inhibitor: NBPT		Industrial crops	-	5-20
		Horticultural	200-300	-

SUPRA



Plant

- Promotes plant vigour
- Supports to overcome water and nutritional stress
- Increases reproduction
- Improves grain quality



foliar application



sustainable packaging



jerry can

5/20 L

Supra is an innovative formulation containing lignosulfonates and high levels of urea nitrogen, with the urease inhibitor (NBPT), and is rich in sulphur, magnesium and zinc.

The urease inhibitor therein reduces nitrogen losses from volatilisation, increasing the efficiency of the foliar fertilisation.

The lignosulfonates in Supra present a high humectant capacity, that prevents the product from crystallisation on the leaf surface, and a strong stickiness that makes it less susceptible to leaching.

Supra must be applied directly onto the leaves during the life cycle of plantations, on evergreen fruit plants, in particular at the growth stage.

For cereal plantations, Supra application is particularly indicated from the late tillering to the earing, to improve the quality of the grain and reduce the whiteness of durum wheat.

Composition	%	Dosage and method of use	ml/hl	l/ha
total Nitrogen (N)	16	<i>cultivation</i>	<i>foliar</i>	<i>spray</i>
of which Urea Nitrogen (N)	16	Cereal	-	15-30
water-soluble Sulfur Trioxide (SO ₃)	8	Forage	-	10-20
water-soluble Magnesium Oxide (MgO)	4	Orchards	500-800	-
Zinc (Zn) complexed with lignosulfonic acid	0,1	Industrial crops	-	10-20
Lignosulfonate complexing agent		Horticultural	500-1000	-
Urease inhibitor: NBPT				



GEL MUGASOL® line

Plant

- Increases productive potential
- Prevents and treats physiopathies from nutritional imbalances
- Attenuates environmental stress

Fruit

- Enhances quality



foliar application



fertigation



sustainable packaging



bottle

1 L



jerry can

5/20 L



Gel Mugasol products contain the three main elements for the nutrition of the plant and are rich in chelated microelements in a particular, effective and eco-friendly formulation.

The different Gel Mugasol formulations are characterised by the presence of organic matter consisting of surfactants and humectant agents, that allow uniforming the size of the drop and increasing stickiness and duration on the leaf surface.

The gel solution retains nutrients and water, releasing them gradually and progressively onto the leaf surface, increasing cation-exchange capacity, water retention and improving the absorption of nutrients.

The extraordinary solubility (1: 1) and the high concentration of nutrients allow, when needed, a substantial reduction in the water volume used during treatments.

GEL MUGASOL MATOR has a high potassium content and promotes fruit ripening.

GEL MUGASOL RADICO has a high phosphorus concentration and stimulates rooting.

GEL MUGASOL PLANTA is balanced in the three main nutrients and promotes the harmonious development of plants.

GEL MUGASOL VEGETO has a high level of nitrogen and stimulates plant growth.

Composition

	%	Matur NPK+Me	Radico NPK+Me	Planta NPK+Me	Vegeto NPK+Me
total Nitrogen (N)		10	11	20	28
of which Nitric Nitrogen (N)		7	-	2	1,5
of which Ammonia Nitrogen (N)		-	3,5	-	1,2
of which Urea Nitrogen (N)		3	7,5	18	25,3
water-soluble Phosphoric Anhydride (P ₂ O ₅)		10	40	20	5
water-soluble Potassium Oxide (K ₂ O)		31	12	20	5
water-soluble Boron (B)		0,02	0,01	0,02	0,01
Copper (Cu) EDTA		0,01	0,01	0,01	0,01
Iron (Fe) EDTA		0,03	0,03	0,03	0,03
Manganese (Mn) EDTA		0,03	0,03	0,03	0,03
Zinc (Zn) EDTA		0,01	0,01	0,01	0,01

Dosage and method of use

	ml/hl foliar	l/ha fertigation
cultivation		
Cereal		
Flowering and Ornamental		
Forage	200-400	5-10
Orchards		
Industrial crops		
Horticultural		



MEGAFLOR® line

Plant

- Increases productivity
- Prevents and treats physiopathies from nutritional imbalances

Fruit

- Enhances quality and dimension



foliar application



bag

1/2 kg



Megaflor line consists of foliar fertilisers with macro and microelements, featuring the FST Foliar-Spray Technology, which micronises, chelates and homogenises all raw materials through the addition of specific organic surfactants.

Micronisation and homogenisation provide high solubility to Megaflor; the surfactants contained therein facilitates the drop spreading on the leaf surface, intensifying nutrients uptake.

Megaflor fertilisers are free from impurities, heavy metals, chlorides and carbonates, they are not thus caustic to plant tissues and can be used on all types of cultivation.

Megaflor products have been studied for several nutritional requirements: they are mostly recommended in situations of reduced assimilation within the roots and in moments of increased demand of nutrients in a plantation, improving the production potential in terms of quantity and quality.

Composition

	%	8.5.40	15.40.15	20.20.20	10.26	31.8
		NPK+Me	NPK+Me	NPK+Me	NP+B	NP+MgO
total Nitrogen (N)		8	15	20	10	31
of which Nitric Nitrogen (N)		5	5	3,9	-	4
of which Ammonia Nitrogen (N)		3	9	3,8	5	3
of which Urea Nitrogen (N)		-	-	12,3	5	24
water-soluble Phosphoric Anhydride (P ₂ O ₅)		5	40	20	26	8
water-soluble Potassium Oxide (K ₂ O)		40	15	20	-	-
water-soluble Magnesium Oxide (MgO)		-	-	-	-	2
water-soluble Sulfur dioxide (SO ₃)		-	-	6	-	-
water-soluble Boron (B)		0,02	0,01	0,01	8	-
Copper (Cu) EDTA		0,02	0,01	0,01	-	-
Iron (Fe) EDTA		0,04	0,03	0,03	-	-
Manganese (Mn) EDTA		0,02	0,02	0,02	-	2
Zinc (Zn) EDTA		0,03	0,01	0,01	-	2

Dosage and method of use

cultivation
 Cereal
 Flowering and Ornamental
 Forage
 Orchards
 Industrial crops
 Horticultural

g/hl
 foliar

200 - 400



Granulars

The Granular product line includes high quality fertilisers in terms of resistance, consistency, granule uniformity and ballistic features.

The granules have a diameter of 2-4 mm and present a high homogeneity that eases their mechanical distribution.

Some granular fertilisers are enriched with meso elements; others are characterised by specific and innovative technologies, such as

the **SLOW-RELEASE**, which involves the use of stabilised nitrogen forms, in accordance with the European Commission Directives regarding the reduction of nitrogen and carbon dioxide emissions into the atmosphere.





BATTIRIA® COATING



Characteristics

- With M.A.S. technology
- Restores, regulates and optimizes the native microbial activity of soil
- Increases nutrient availability
- Increases tolerance to salt stress
- Increases the plant's self-defense
- Chloride-free



mechanical application



bag

25/40 KG



Big bag

600 KG

The Battiria Coating line includes bio-activated granular fertilisers with innovative MAS technology, which means they are coated with natural bioactive molecules that benefit the soil microbiota.

The coating of the granule increases the efficiency and sustainability of the fertiliser while promoting the reconstitution of the soil microbial population.

Battiria fertilisers are suitable for basal and cover fertilisation of all crops, adapted to the specific needs of each farmer.

Battiria Coating does not release nutrients directly, but rather creates a balance between the nutrients in the soil and those supplied through the fertiliser. This balance allows plants to absorb nutrients more efficiently, improving their growth and overall

health. Bacillus bacteria become the allies of the plant roots, helping to maximise the nutrient potential of the soil.

The use of Battiria Coating reduces operating costs and reduces CO₂ emissions into the atmosphere; it also helps plants become more resilient to biotic and abiotic stresses, such as disease and adverse weather conditions.

The Battiria line includes low chlorine content fertilisers.

M.A.S. technology

Microrganismi Agricoltura Sostenibile



PLANT GROWTH PROMOTING RHIZOBACTERIA (PGPR)

- FIX OF ATMOSPHERIC NITROGEN
- PHOSPHATE SOLUBILIZATION
- MOBILIZATION OF POTASSIUM
- SEIZUREMENT ACTION OF HEAVY METALS
- AUXINE PRODUCTION
- SIDEROPHORE PRODUCTION
- PRODUCTION OF METABOLITES II
- ACC DEAMINASE ACTIVITY

- Improves root development
- Improves the vigor of the plant
- Improves soil fertility
- Increased stress tolerance saline
- Antimicrobial action for a plant healthier

Composition

	%	PRIMUS	SEMPER	FORTIS	EST
Total nitrogen (N)		NP	NPK	N	NK
of which ammonia nitrogen (N)		16	15	40	24
of which urea nitrogen (N)		16	10	5	-
Phosphorus pentoxide (P ₂ O ₅) soluble in water		-	5	35	24
Sulfur dioxide (SO ₃) soluble in water		20	9	-	-
Potassium oxide (K ₂ O) soluble in water		28	34	14	-
Iron (Fe)		-	15	-	29
Zinc (Zn)		2	1	-	-
		0,7	-	-	-

Bacillus spp. ≥1x10⁶ CFU/g

With M.A.S. Technology

Doses and methods of use

	kg/ha			
Crops				
Cereals	150-200	200-300	100-200	200-300
Forage	100-200	100-200	-	-
Orchards	-	300-500	-	-
Industrial crops	150-200	200-300	-	-
Horticultural	-	200-400	-	-

*Microorganisms Sustainable Agriculture



MIREA® line



Characteristics

- With DOS-P® Technology
- Minimises nitrogen losses from volatilisation
- Reduces nitrogen losses from leaching
- Increases nitrogen availability
- Improves production yield
- Progressive and long-lasting nutritional supply



mechanical application



slow-release



sustainable technology



bag

25 kg



big bag

600 kg

Mirea is the first line of granular nitrogen fertilisers with the new and unique **DOS-P® Technology**, that minimises, up to over 50%, nitrogen losses to the environment from volatilisation (in the form of ammonia) and leaching (in the form of nitrate).

DOS-P® Technology performs a dual action thanks to the presence of the double inhibitor: it blocks the urease enzyme and slows down the transformation of urea nitrogen into ammonia nitrogen, avoiding the formation of ammonia, which is highly volatile. It also inhibits the activity of Nitrosomonas, the bacteria responsible for the nitrification process, and reduces the subsequent transformation of ammonia nitrogen into nitric nitrogen, avoiding its excessive availability at inappropriate times for plantations and its related losses to the environment due to leaching.

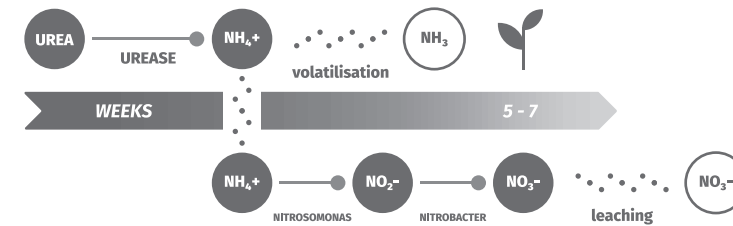
Mirea increases the farming yield without affecting production costs, by improving the efficiency of the nitrogen fertilisation.

Mirea can also be applied well in advance of the rainfall period, thanks to the DOS-P® Technology, which prevents nitrogen losses from volatilisation, typical of traditional formulations.

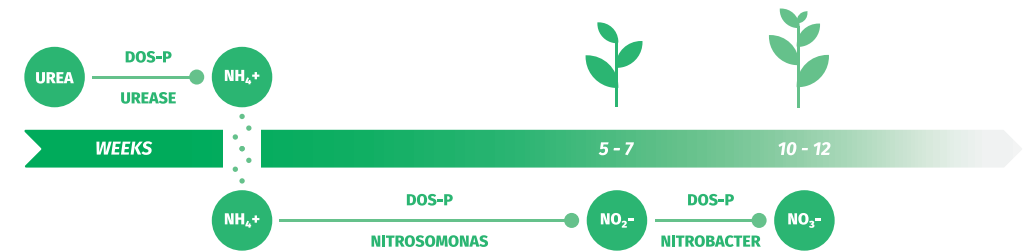
Mirea line products respect the environment and comply with the European regulations for the reduction of nitrogen and carbon dioxide emissions into the ecosystem.

DOS-P® technology

UREA NITROGEN / STANDARD



UREA NITROGEN / MIREA



Composition

	%	22.9.24	24.0.29	32.0.18	34	46
total Nitrogen (N)		22	24	32	34	46
of which Nitric Nitrogen (N)		-	-	-	-	-
of which Ammonia Nitrogen (N)		3,6	-	-	11	-
of which Urea Nitrogen (N)		18,4	24	32	23	46
Phosphorus Pentoxide (P ₂ O ₅) soluble in neutral ammonium citrate and water		9	-	-	-	-
water-soluble Potassium Oxide (K ₂ O)		24	29	18	-	-
water-soluble Sulphur Trioxide (SO ₃)		-	-	-	28	-

With DOS-P® Technology

Dosage and method of use

	kg/ha				
<i>cultivation</i>					
Cereal		100-300	100-300	100-300	100-300
Forage		200-300	200-300	200-300	200-300
Orchards		300-400	300-400	300-400	400-500
Industrial crops		200-300	200-300	200-300	200-400
Horticultural		300-400	300-400	300-400	300-400



AUREA® line



Characteristics

- With urease inhibitor
- Minimises nitrogen losses from volatilisation
- Increases nitrogen availability
- Improves production yield
- Progressive and long-lasting nutritional supply



mechanical application



slow-release



sustainable technology



bag

25/40 kg



big bag

600 kg

The Aurea line includes slow-release fertilisers containing urea nitrogen with the urease inhibitor **NBPT "N(n-butyl) Thiophosphoric Triamide"**.

The urease enzyme is naturally produced by the fungi and bacteria present in high quantities in the soil surface. Right after the application, the urea is hydrolysed by the urease enzyme, producing ammonium carbonate and ammonia (highly volatile) which is dispersed into the environment by volatilisation.

By applying Aurea to the soil, the NBPT inhibits the urease enzyme to slow down the transformation of urea nitrogen into ammonia. In this way, the nitrogen stays longer in the soil and its losses due to volatilisation are significantly reduced. Ammonia nitrogen guarantees a sub-acid environment for the roots, with a beneficial effect on the assimilation of elements of low mobility in the soil.

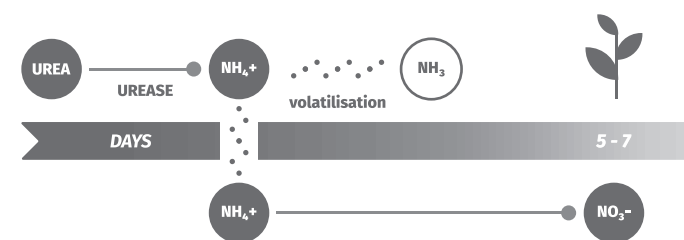
Aurea does not need to be buried and enables the scheduling of the top dressing fertilisations

regardless of the weather forecast. This feature strongly helps companies in the logistics and organisation of the fertilisation plan.

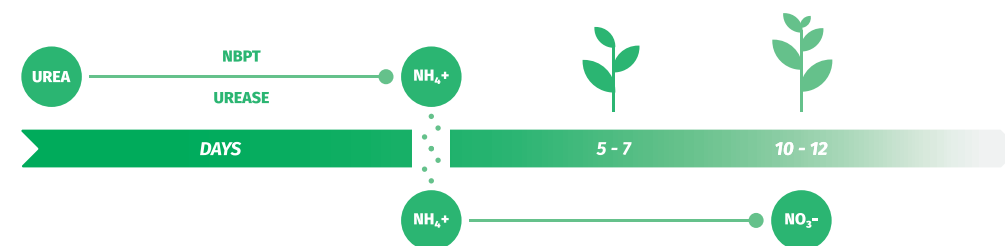
The Aurea line products respect the environment and comply with the European regulations for the reduction of nitrogen and carbon dioxide emissions into the ecosystem.

NBPT urease inhibitor

UREA NITROGEN / STANDARD



UREA NITROGEN / AUREA



Composition

	%	22.9.24	24.0.29	32.0.18	34 S	46
total Nitrogen (N)		22	24	32	34	46
of which Nitric Nitrogen (N)		-	-	-	-	-
of which Ammonia Nitrogen (N)		3,6	-	-	11	-
of which Urea Nitrogen (N)		18,4	24	32	23	46
Phosphorus Pentoxide (P ₂ O ₅) soluble in neutral ammonium citrate and water		9	-	-	-	-
water-soluble Potassium Oxide (K ₂ O)		24	29	18	-	-
water-soluble Sulphur Trioxide (SO ₃)		-	-	-	28	-

With **NBPT** urease inhibitor
N (n-butyl) Thiophosphoric Triamide

Dosage and method of use

	kg/ha				
<i>cultivation</i>					
Cereal	200-300	200-300	200-300	200-300	200-300
Forage	200-300	200-300	200-300	400-500	200-300
Orchards	300-400	300-400	300-400	300-400	300-400
Industrial crops	200-300	200-300	200-300	200-300	200-300
Horticultural	200-300	200-300	200-300	200-300	200-300



MIDOTEC® line



Characteristics

- With nitrification inhibitor
- Reduces nitrogen losses from leaching
- Increases nitrogen availability
- Improves production yield
- Progressive and long-lasting nutritional supply



mechanical application



slow-release



sustainable technology



bag

25 kg



big bag

600 kg

The Midotec line consists of slow-release granular fertilisers containing the nitrification inhibitor **3,4 DMPP (3,4 Dimethylpyrazole phosphate)**.

The nitrification bacteria are responsible for the transformation of ammonia nitrogen into nitric nitrogen in the soil; this process is slowed down by the inhibitor for 8-12 weeks: the ammonia nitrogen, having a positive charge, is not subject to leaching and remains in the soil for a longer period of time before being transformed into nitric nitrogen, which has a negative electrical charge and is not retained by the colloids of the soil. A greater presence of ammonia nitrogen ensures a sub-acid environment for the root, with benefits on the assimilation of the less mobile mineral elements in the soil.

The use of Midotec fertilisers brings obvious economic benefits for farmers, in particular a greater availability of nitrogen for cultivation, which means fewer fertiliser applications.

Midotec fertilisers can be applied over the entire

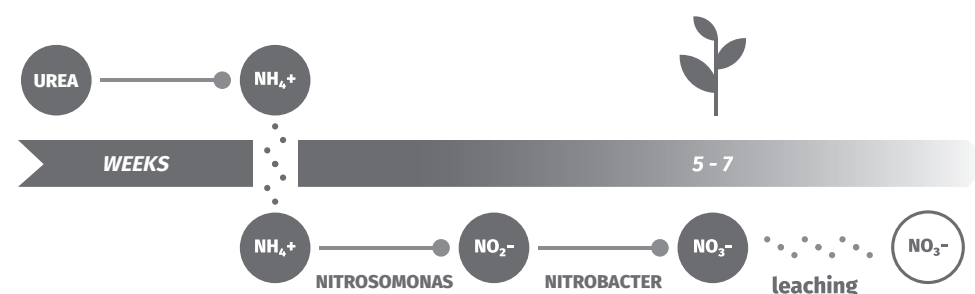
area or located along the row for basal or top dressing fertilisations.

Midotec line products respect the environment and comply with the European regulations for the reduction of nitrogen and carbon dioxide emissions into the ecosystem.

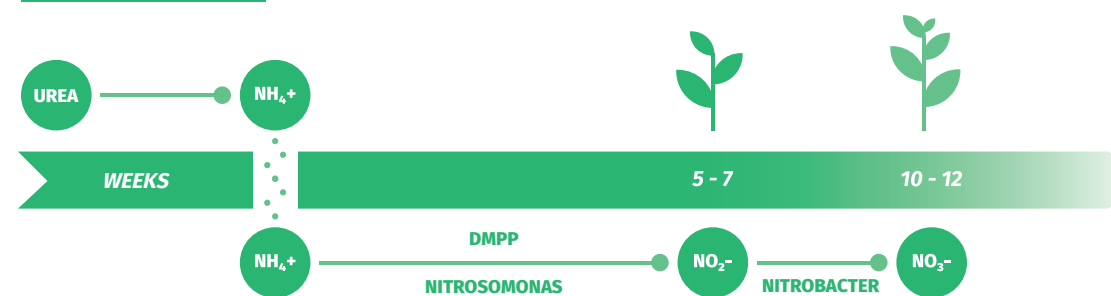
The Midotec line includes low chlorine content fertilisers.

DMPP nitrification inhibitor

UREA NITROGEN / STANDARD



UREA NITROGEN / MIDOTEC





Composition	%	12.8.25	13.13.20	20.12.10	22.9.24	19.0.35	24.0.29
		NPK+SO ₃	NPK+SO ₃	NPK+MgO+B	NPK	NK	NK
total Nitrogen (N)	12	13	20	22	19	24	
of which Nitric Nitrogen (N)	-	-	-	-	-	-	
of which Ammonia Nitrogen (N)	7,5	13	12,5	3,6	-	-	
of which Urea Nitrogen (N)	4,5	-	7,5	18,4	19	24	
Phosphorus Pentoxide (P ₂ O ₅) soluble in neutral ammonium citrate and water	8	13	12	9	-	-	
water-soluble Potassium Oxide (K ₂ O)	25	20	10	24	35	29	
water-soluble Magnesium Oxide (MgO)	-	-	-	-	-	-	
water-soluble Sulphur Trioxide (SO ₃)	36	37	31	-	-	-	
water-soluble Boron (B)	-	-	-	-	-	-	
Iron (Fe)	-	-	-	-	-	-	
With 3,4 DMPP nitrification inhibitor (3,4-Dimethylpyrazole Phosphate)							

Dosage and method of use	kg/ha					
<i>cultivation</i>						
Cereal	-	-	-	100-300	100-300	100-300
Forage	-	-	-	200-300	200-300	200-300
Orchards	300-500	400-500	300-500	300-400	300-400	300-400
Industrial crops	-	-	-	200-300	200-300	200-300
Horticultural	-	-	-	300-400	300-400	300-400

Composition	%	32.0.18	15.28	25.15	21	26	46
		NK	NP+SO ₃ +Fe	NP	N+SO ₃	N+SO ₃	N
total Nitrogen (N)	32	15	25	21	26	46	
of which Nitric Nitrogen (N)	-	-	10	-	0	-	
of which Ammonia Nitrogen (N)	-	15	15	21	17	-	
of which Urea Nitrogen (N)	32	-	-	-	9	46	
Phosphorus Pentoxide (P ₂ O ₅) soluble in neutral ammonium citrate and water	-	28	15	-	-	-	
water-soluble Potassium Oxide (K ₂ O)	18	-	-	-	-	-	
water-soluble Magnesium Oxide (MgO)	-	2	-	-	-	-	
water-soluble Sulphur Trioxide (SO ₃)	-	7	-	60	48	-	
water-soluble Boron (B)	-	-	-	-	-	-	
Iron (Fe)	-	2	-	-	-	-	
With 3,4 DMPP nitrification inhibitor (3,4-Dimethylpyrazole Phosphate)							

Dosage and method of use	kg/ha					
<i>cultivation</i>						
Cereal	100-300	100-300	100-300	100-300	100-300	100-300
Forage	200-300	200-300	200-300	200-300	200-300	200-300
Orchards	300-400	-	400-500	400-500	400-500	300-400
Industrial crops	200-400	200-400	200-400	200-400	200-400	200-400
Horticultural	300-400	300-400	300-400	300-400	300-400	300-400



MIDOTEC[®] GOLD



Characteristics

- With Isobutylidene diurea
- Gradually releases nitrogen into the soil
- Improves the supply of magnesium, iron and sulphur
- Progressive and long-lasting nutritional supply



mechanical application



slow-release



sustainable technology



bag

25 kg

Midotec Gold is a complex granular fertiliser, with slow-release nitrogen based on Isobutylidene diurea (**IBDU**), specific for the basal and top dressing fertilisations of all types of cultivation. The gradual release of urea nitrogen from IBDU occurs by hydrolysis, regardless of the microbial activity and the temperature of the soil.

Midotec Gold contains nitric nitrogen and ammonia nitrogen, promptly available and slow released by IBDU: the nitric and ammoniacal components satisfy the initial growth needs, while the urea nitrogen coming from IBDU represents a nitrogen reserve in the soil that, released slowly in an assimilable form, supports the different stages of the plant development over time.

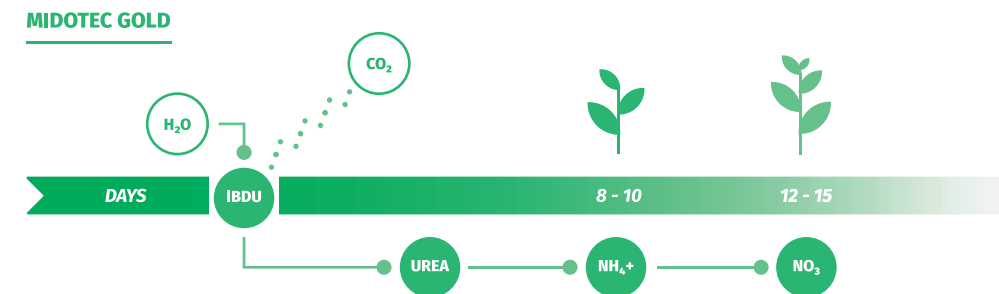
Midotec Gold exerts an acidifying action in the soil due to the presence of sulphur, which promotes the availability of the nutritional elements otherwise blocked by colloids.

The presence of magnesium and iron completes the performance of the fertiliser, ensuring a more

intense colour of the leaves and enhancing the production.

Midotec Gold is a low chlorine content fertiliser.

IBDU technology



Composition

	%
total Nitrogen (N)	15
of which Nitric Nitrogen (N)	4
of which Ammonia Nitrogen (N)	6
of which Isobutylidene Diurea (N)	5
Phosphorus Pentoxide (P₂O₅) soluble in neutral ammonium citrate and water	9
water-soluble Potassium Oxide (K₂O)	15
water-soluble Magnesium Oxide (MgO)	2
water-soluble Sulphur Trioxide (SO₃)	17
Iron (Fe)	1,4

With **IBDU**

Dosage and method of use

cultivation	kg/ha
Flowering and Ornamental	200-400
Orchards	600-800
Industrial crops	200-400
Horticultural	400-800



MAGICOLOR® line

Characteristics

- Rich in microelements
- Helps to obtain greener plants
- Sub-acid reacting



mechanical
application



bag

25 kg



The Magicolor line consists of highly soluble granular fertilisers, that can be used also on chlorine-sensitive cultivations. Containing meso and micronutrients (iron, manganese and zinc), they provide for greener plants and an overall improvement in the quality of the production.

Some of the Magicolor products have a good supply of sulphur and sub-acid reactions, which increase the availability of the less mobile nutrient elements in the soil, preventing physiopathies from nutritional deficiencies.

Magicolor can be easily applied, also spot wise, thanks to the uniformity of its granules; such characteristic makes Magicolor particularly suitable for basal and top dressing fertilisations on extensive horticultural and tree cultivations.

Composition	%	11.5.11	13.16.8	18.6.6	21
		NPK+SO ₃ +Me	NPK+SO ₃ +Me	NPK+SO ₃ +Me	N+SO ₃ +Me
total Nitrogen (N)		11	13	18	21
of which Nitric Nitrogen (N)		5	4,2	8,3	-
of which Ammonia Nitrogen (N)		6	8,8	9,7	12,3
of which Urea Nitrogen (N)		-	-	-	7,7
Phosphorus Pentoxide (P ₂ O ₅) soluble in neutral ammonium citrate and water		5	16	6	-
water-soluble Potassium Oxide (K ₂ O)		11	8	6	-
total Sulphur Trioxide (SO ₃)		12	7	7	38
Iron (Fe)		3	2,5	2	2
Manganese (Mn)		0,1	0,1	0,1	0,1
Zinc (Zn)		0,02	0,02	0,02	0,02
Dosage and method of use	kg/ha				
<i>cultivation</i>					
Cereal		-	-	-	300-400
Flowering and Ornamental		300-400	300-400	300-400	300-400
Forage		200-300	200-300	200-300	200-300
Orchards		600-700	600-700	500-600	400-500
Industrial crops		300-400	300-400	300-400	300-400
Horticultural		300-400	300-400	200-300	300-400



VIKING® line

Characteristics

- Chloride-free
- Suitable for all types of cultivation
- Balanced supply of main nutrients
- Improves the magnesium and sulphur uptake



mechanical application



bag

25 kg



The Viking line includes complex granular fertilisers, specifically developed for the basal and top dressing fertilisations, to all types of cultivations. Some of the Viking line products present a good supply of sulphur and magnesium.

The Viking products are characterised by the regular size of their granules, high solubility and sub-acid reaction, due to the presence of sulphur coming from the sulfuric anhydride, which is soluble in water, increasing the availability of the nutritional elements present in the soil, preventing deficiencies and physiopathies and improving the quality of the production.

The Viking line is a low chlorine content fertilisers line.

Composition

Composition	%	11.22.16	12.10.20	12.12.17	20.5.10	20.10.10	40
		NPK+SO ₃ +Fe	NPK+MgO+SO ₃	NPK+MgO+SO ₃ +Zn	NPK+SO ₃	NPK+SO ₃	N+SO ₃
total Nitrogen (N)		11	12	12	20	20	40
of which Nitric Nitrogen (N)		-	5,3	-	9,5	9,5	-
of which Ammonia Nitrogen (N)		11	6,7	12	10,5	10,5	5
of which Urea Nitrogen (N)		-	-	-	-	-	35
Phosphorus Pentoxide (P ₂ O ₅) soluble in neutral ammonium citrate and water		22	10	12	5	10	-
water-soluble Potassium Oxide (K ₂ O)		16	20	17	10	10	-
water-soluble Magnesium Oxide (MgO)		-	2	2	-	-	-
total Sulphur Trioxide (SO ₃)		24	10	37	5	6	14
Iron (Fe)		1	-	-	-	-	-
Zinc (Zn)		-	-	0,1	-	-	-

Dosage and method of use kg/ha

cultivation	11.22.16	12.10.20	12.12.17	20.5.10	20.10.10	40
Flowering and Ornamental	200-400	200-400	200-400	200-400	200-400	400-500
Orchards	400-600	600-800	400-600	400-600	400-600	300-400
Industrial crops	400-600	400-600	400-600	400-600	400-600	200-300
Horticultural	400-800	400-800	400-800	400-800	400-800	200-300



COMPLESAL[®] BIO



bag

25 kg

Characteristics

- Presents an acidifying action
- Enhances the soil structure
- Promotes the development and activity of microorganisms



mechanical application



approved for organic farming

Complestal Bio is an organic mineral fertiliser, authorised in organic farming, containing nitrogen, phosphorus and potassium, and is rich in calcium. It is extremely homogeneous, not breaking into minor parts and presenting low humidity, ensuring stability over time.

The organic carbon contained in Complestal Bio increases the fertility of the soil, improving its structure and promoting the activity of microorganisms.

The nitrogen comes from meat meal and is slowly transformed in the soil by microorganisms into assimilable forms, without presenting losses from leaching; organic phosphorus, on the other hand,

comes from bone meal, and remains available in the long term.

The high potassium supply, coming from the potassium sulphate extracted from mines, promotes the sugar accumulation and the colouring of the fruit, improving the quality of the production.

Moreover, Complestal Bio exerts a moderate and progressive acidifying action to the soil, promoting a greater availability of the nutrients, otherwise blocked by the colloids of the soil, thanks to its considerably high sulphur content.

Complestal Bio is suitable for both basal and top dressing fertilisations.

Composition

	%
total Nitrogen (N)	4
of which Organic Nitrogen (N)	4
total Phosphorus Pentoxide (P ₂ O ₅)	8
water-soluble Potassium Oxide (K ₂ O)	12
total Sulphur Trioxide (SO ₃)	12
total Calcium Oxide (CaO)	10
Organic Carbon (C)	22

Dosage and method of use

	kg/ha
<i>cultivation</i>	
Flowering and Ornamental	600-800
Forage	400-600
Orchards	600-800
Industrial crops	600-800
Horticultural	800-1000



Water-soluble

The Water-soluble products category embraces, in addition to pure salts for fertigation, high-performance complex fertilisers, characterised by great purity, solubility and homogeneity.

All items in the Water-soluble product range are “FREE-FLOWING”: after being submitted to a drying treatment under controlled temperatures, these products present a low moisture rate, which makes them avoid the “caking” phenomenon.

The Water-soluble products include a range of fertilisers adopting the company’s “SLOW-RELEASE” technology, based on stabilised nitrogen forms.





ENNÈ® line



bag 25 kg

Characteristics

- Contains nitrification inhibitor
- Chloride-free
- Reduces nitrogen losses from leaching
- Increases Nitrogen availability
- Has an acidifying effect
- Improves the production yield



The Ennè Line is composed of slow-release fertilisers containing the nitrification inhibitor **3,4 DMPP (3,4 Dimethylpyrazole phosphate)**, suitable for fertigation in all types of plantations, lawns and tree nurseries.

The 3,4 DMPP nitrification inhibitor promotes a long-lasting presence of nitrogen in the soil, reducing losses due to nitrate leaching, especially when frequent irrigation is needed.

Ennè fertilisers have an acidifying effect on the rhizosphere that lasts over time, thanks to the presence of the promptly soluble sulphur and the ammonia nitrogen which remains in the soil for long; the result is an easier assimilation within the plant of all less mobile nutrients in the soil.

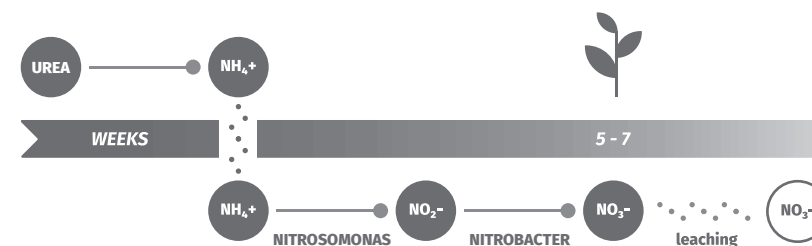
The Ennè products are treated with an exclusive dehumidification process in controlled atmosphere, developed by Mugavero, to exclude caking issues. These fertilisers are also characterised by their high homogeneity and solubility and are free from chlorine and sodium.

The products of the Ennè line respect the environment and comply with European regulations for the reduction of nitrogen and carbon dioxide emissions in the ecosystem.

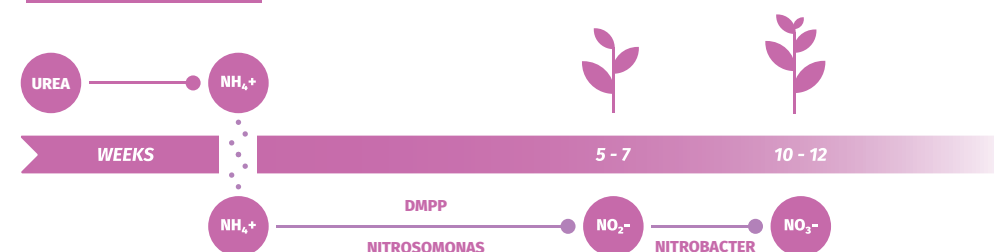
The Ennè line includes low chlorine content fertilisers.

DMPP nitrification inhibitor

UREA NITROGEN / STANDARD



UREA NITROGEN / ENNÈ



Composition

	%	11.22.22	18.18.18	20.5.20	14.48	21
		NPK+MgO	NPK+SO ₃	NPK+SO ₃	NPK+SO ₃	N+SO ₃
total Nitrogen (N)		11	18	20	14	21
of which Nitric Nitrogen (N)		4	2	5	-	-
of which Ammonia Nitrogen (N)		7	6	9	14	21
of which Urea Nitrogen (N)		-	10	6	-	-
water-soluble Phosphorus Pentoxide (P ₂ O ₅)		22	18	5	48	-
water-soluble Potassium Oxide (K ₂ O)		22	18	20	-	-
water-soluble Magnesium Oxide (MgO)		2	-	-	-	-
water-soluble Sulphur Trioxide (SO ₃)		-	16	20	11,5	57,5

With **3,4 DMPP** nitrification inhibitor (3,4-Dimethylpyrazole Phosphate)

Dosage and method of use

crops
 Flowering and Ornamental
 Orchards
 Industrial crops
 Horticultural

kg/ha
25-50 application



NIGER[®] line

Characteristics

- With humic and fulvic acids
- Chloride-free
- Meets macro and micronutrient requirements.
- Increases the humectant power of the rhizosphere
- Increases root system development
- Improves productivity



fertigation



bag

10 kg



Niger line are water-soluble complex sub-acid reacting fertilizers with humic acids, fulvic acids and microelements. Used at low dosages, they provide maximum efficiency.

The use of Niger results in a significant boost of the plant's metabolic processes, contributing to high quality and quantity standards.

The Niger line is extremely complete and high-performing for plant nutrition and is characterized by high homogeneity and solubility.

The Niger line includes low chlorine content fertilisers.

Niger 500 is used in the vegetative stage and in all situations where a higher nitrogen supply is required.

Niger 600 is used throughout the vegetative-productive cycle of the crop when a balanced supply of macro- and microelements is required.

Niger 650 is particularly suitable in the early vegetative stages to facilitate rooting and establishment in post-transplantation.

Niger 700 is used in the final stages of fruit swelling and ripening and in all situations where a higher potassium supply is required.

Composition

	%			
	500	600	650	700
	NPK+Me	NPK+Me	NPK+Me	NPK+Me
Total nitrogen (N)	21	18	11	9
of which nitric nitrogen (N)	4	5	2	6
of which ammonia nitrogen (N)	9,7	6	9	3
of which urea nitrogen (N)	7,3	7	-	-
Phosphorus dioxide (P ₂ O ₅) soluble in water	7	18	49	15
Potassium oxide (K ₂ O) soluble in water	14	18	6	33
water-soluble Sulphur Trioxide (SO ₃)	22	9	4	23
Boron (B) soluble in water	0,01	0,01	0,01	0,01
Copper (Cu) chelated with EDTA	0,01	0,01	0,01	0,01
Iron (Fe) chelated with EDDHA	0,03	0,03	0,03	0,03
Manganese (Mn) chelated with EDTA	0,10	0,10	0,10	0,10
Zinc (Zn) chelated with EDTA	0,10	0,10	0,10	0,10

Containing more than 3% Humic and Fulvic acids

Doses and methods of use

Crops
Flowering and Ornamental
Orchards
Industrial crops
Horticultural

kg/ha
20-30
application



MAXILEAF® line

Characteristics

- With EDTA chelated microelements
- Total and prompt solubility
- Suitable for all types of fertigation systems
- Satisfies the need for macro and micronutrients



fertigation



bag

25 kg



The Maxileaf product range includes complex microcrystalline water-soluble fertilisers, with low chlorine and sodium content, characterised by a complete and immediate solubility.

The high homogeneity of the microcrystalline formulation guarantees a prompt solubilisation in the moment of the application, leaving no unsolved residue, and makes it suitable for Maxileaf in all types of fertigation systems.

The amount of EDTA chelated microelements satisfies the nutritional needs of all types of cultivation.

The Maxileaf line is treated with an exclusive dehumidification process in a controlled atmosphere, developed by Mugavero, to exclude caking issues.

The Maxileaf line includes low chlorine content fertilisers.

Composition

	%	8.24.24	13.40.13	20.5.20	20.20.20
		NPK+Me	NPK+Me	NPK+Me	NPK+Me
total Nitrogen (N)		8	13	20	20
of which Nitric Nitrogen (N)		2	4	5	3,6
of which Ammonia Nitrogen (N)		6	9	9	3,9
of which Urea Nitrogen (N)		-	-	6	12,5
water-soluble Phosphorus Pentoxide (P ₂ O ₅)		24	40	5	20
water-soluble Potassium Oxide (K ₂ O)		24	13	20	20
water-soluble Boron (B)		0,01	0,01	0,01	0,01
EDTA chelated Copper (Cu)		0,01	0,01	0,01	0,01
EDTA chelated Iron (Fe)		0,03	0,03	0,03	0,03
EDTA chelated Manganese (Mn)		0,02	0,02	0,02	0,02
EDTA chelated Zinc (Zn)		0,01	0,01	0,01	0,01

Dosage and method of use

cultivation
 Flowering and Ornamental
 Orchards
 Industrial crops
 Horticultural

kg/ha

25-50
application



MUGASOL® line

Characteristics

- Chloride-free
- Loaded with microelements
- Total and prompt solubility
- Satisfies the need for macro and micronutrients



fertigation



bag

25 kg



The Mugasol line includes complex water-soluble fertilisers, free from chlorides, characterised by a total and immediate solubility.

Mugasol products are suitable for the use in fertigation of plantations sensitive to chlorine or salinity, such as grapevines, onions and tobacco.

The amount of EDTA chelated microelements satisfies the nutritional needs of all types of cultivation.

The Mugasol line is treated with an exclusive dehumidification process in a controlled atmosphere, developed by Mugavero, to exclude caking issues.

The Mugasol line includes low chlorine content fertilisers.

Composition

	%	8.24.24	13.40.13	15.5.30	9.18.27	20.20.20	24.12.12
		NPK+Me	NPK+Me	NPK+Me	NPK+Me	NPK+Me	NPK+Me
total Nitrogen (N)		8	13	15	9	20	24
of which Nitric Nitrogen (N)		2	4	9	2	3,6	4
of which Ammonia Nitrogen (N)		6	9	6	7	3,9	8
of which Urea Nitrogen (N)		-	-	-	-	12,5	12
water-soluble Phosphorus Pentoxide (P ₂ O ₅)		24	40	5	18	20	12
water-soluble Potassium Oxide (K ₂ O)		24	13	30	27	20	12
water-soluble Magnesium Oxide (MgO)		-	-	2	-	-	-
water-soluble Sulphur Trioxide (SO ₃)		21	-	12	25	6	-
water-soluble Boron (B)		0,01	0,01	0,01	0,01	0,01	0,01
EDTA chelated Copper (Cu)		0,01	0,01	0,01	0,01	0,01	0,01
EDTA chelated Iron (Fe)		0,03	0,03	0,03	0,03	0,03	0,03
Manganese (Mn)		0,02	0,02	0,02	0,02	0,02	0,02
Zinc (Zn)		0,01	0,01	0,01	0,01	0,01	0,01

Dosage and method of use

cultivation

- Flowering and Ornamental
- Orchards
- Industrial crops
- Horticultural

kg/ha

25-50
application



IDROPLANT® line

Characteristics

- Absolutely free from urea
- Low salinity
- Suitable for alkaline soils
- Chloride-free
- Appropriate for chlorine-sensitive cultivations



fertigation



bag

25 kg

The Idroplant line consists of complex water-soluble fertilisers, free from urea nitrogen and chlorides, enriched with microelements.

Containing nitric nitrogen, ammonia nitrogen, and absolutely free from urea nitrogen, the specific formulation of Idroplant products makes them suitable for soils with sub-alkaline and alkaline pH, ensuring a correct acidification of the rhizosphere. In alkaline soils, the urea nitrogen can be transformed by hydrolysis into ammonium carbamate, increasing the pH value of the soil with a consequential worsening of cultivation yields.

The Idroplant line is treated with an exclusive dehumidification process in a controlled atmosphere, developed by Mugavero, to exclude caking issues.



Composition

	%	7.13.40	15.30.15	19.19.19	25.10.10
		NPK+Me	NPK+Me	NPK+Me	NPK+Me
total Nitrogen (N)		7	15	19	25
of which Nitric Nitrogen (N)		5	6	10,5	12
of which Ammonia Nitrogen (N)		2	9	8,5	13
water-soluble Phosphorus Pentoxide (P₂O₅)		13	30	19	10
water-soluble Potassium Oxide (K₂O)		40	15	19	10
water-soluble Boron (B)		0,01	0,01	0,01	0,01
EDTA chelated Copper (Cu)		0,01	0,01	0,01	0,01
EDTA chelated Iron (Fe)		0,03	0,03	0,03	0,03
EDTA chelated Manganese (Mn)		0,02	0,02	0,02	0,02
EDTA chelated Zinc (Zn)		0,01	0,01	0,01	0,01

Dosage and method of use

cultivation

Flowering and Ornamental
Orchards
Industrial crops
Horticultural

kg/ha

25-50
application



MAGNA 16

Composition	%
water-soluble Magnesium Oxide (MgO)	16
water-soluble Sulphur Trioxide (SO₃)	32

NICAL[®]

Composition	%
total Nitrogen (N)	15,5
of which Nitric Nitrogen (N)	14,5
of which Ammonia Nitrogen (N)	1
water-soluble Calcium Oxide (CaO)	26,5

NIMAG[®]

Composition	%
total Nitrogen (N)	11
of which Nitric Nitrogen (N)	11
water-soluble Magnesium Oxide (MgO)	15

NK 13

Composition	%
total Nitrogen (N)	13
of which Nitric Nitrogen (N)	13
water-soluble Potassium Oxide (K₂O)	46

UP UREA PHOSPHATE

Composition	%
total Nitrogen (N)	18
of which Urea Nitrogen (N)	18
water-soluble Phosphorus Pentoxide (P₂O₅)	44

MAP 12.61.0

Composition	%
total Nitrogen (N)	12
of which Ammonia Nitrogen (N)	12
water-soluble Phosphorus Pentoxide (P₂O₅)	61

MKP 0.52.34

Composition	%
water-soluble Phosphorus Pentoxide (P₂O₅)	52
water-soluble Potassium Oxide (K₂O)	34

NITROSOL[®] 34

Composition	%
total Nitrogen (N)	34
of which Nitric Nitrogen (N)	17
of which Ammonia Nitrogen (N)	17

SOP 0.0.51

Composition	%
water-soluble Potassium Oxide (K₂O)	51
water-soluble Sulphur Trioxide (SO₃)	47



bag

25 kg



fertigation





PRODUCTS

A-Z

Product name	organic	pag.
ACIDAM		60
ALGASTAR	•	18
ASWELL	•	19
AUREA 22.9.24		80
AUREA 24.0.29		80
AUREA 32.0.18		80
AUREA 34 s		80
AUREA 46		80
AZOFLASH		68
BATTIRIA primus		76
BATTIRIA semper		76
BATTIRIA fortis		76
BATTIRIA est		76
BATTIRIA FLUID	•	20
BIOTONICAL	•	32
B&VI	•	21
BOS		38
CANTA		22
COMPLESAL BIO	•	92
ENNNE' 11.22.22		95
ENNNE' 20.5.20		95
ENNNE' 18.18.18		95
ENNNE' 14.48		95
ENNNE' 21		95
ETIBOR	•	50
FOSFIPTAS		39
GEL MUGASOL Vegeto		70
GEL MUGASOL Matur		70
GEL MUGASOL Radico		70
GEL MUGASOL Planta		70
GRAN RISERVA		23
HYPERPHOSE		40
IDROPLANT 15.30.15		103
IDROPLANT 19.19.19		103
IDROPLANT 25.10.10		103
IDROPLANT 7.13.40		103
KELPSTAR		24
KELPSTAR BORO		25
LIRA	•	41

Product name	organic	pag.
MACAL	•	51
MAGICOLOR 11.5.11		88
MAGICOLOR 13.16.8		88
MAGICOLOR 18.6.6		88
MAGICOLOR 21		88
MAGNA 16		105
MAP 12.61.0		105
MATURAU		28
MAXILEAF 13.40.13		99
MAXILEAF 20.20.20		99
MAXILEAF 20.5.20		99
MAXILEAF 8.24.24		99
MEGAFER	•	52
MEGAFER PLUS	•	52
MEGAFLOR 10.26		72
MEGAFLOR 15.40.15		72
MEGAFLOR 20.20.20		72
MEGAFLOR 31.8		72
MEGAFLOR 8.5.40		72
MIDOTEC 12.8.25		82
MIDOTEC 13.13.20		82
MIDOTEC 15.28		82
MIDOTEC 20.12.10		82
MIDOTEC 21		82
MIDOTEC 26		82
MIDOTEC 19.0.35		82
MIDOTEC 22.9.24		82
MIDOTEC 24.0.29		82
MIDOTEC 25.15		82
MIDOTEC 32.0.18		82
MIDOTEC 46		82
MIDOTEC FORMULA		61
MIDOTEC GOLD		86
MIREA 22.9.24		78
MIREA 24.0.29		78
MIREA 32.0.18		78
MIREA 34		78
MIREA 46		78
MKP 0.52.34		105

Product name	organic	pag.
MOVITA		26
MOVITA TWIN		26
MUGASOL 8.24.24		25
MUGASOL 13.40.13		101
MUGASOL 15.5.30		101
MUGASOL 18.9.27		101
MUGASOL 20.20.20		101
MUGASOL 24.12.12		101
MUGASOL MIX	•	54
MUGASOL MIX L	•	55
NATURAL ZEOLITE	•	42
NICAL		105
NICAL L		62
NIGER L	•	29
NIGER 500		97
NIGER 600		97
NIGER 650		97
NIGER 700		97
NIMAG		27
NITROSOL 34		105
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