



agridæus

life for agriculture



2022

English 

Zero residues
programs

Proprietary formulas
from our own
research

Integrated nutrition
in defense strategies



Our & our customers' history is the value

Agridæus was founded in 2002. For many years we have worked in the **research** and **development** of micro-organisms-based products, expanding then the research in plants physiology and their natural defense mechanisms.

In 2013, we decided to make our skills available directly to farmers and field technicians through our products.

We have learned to listen to the needs of our customers and we are committed together with them, to look for the best solutions to enable the farmers to achieve productive, qualitative, and economic values.

We develop our products, we follow them from born to the field; for these reasons, we can provide our customers with assistance and support for their optimal use.

In 2021 Agridaeus Ibérica was born as the technical-commercial division of Agridaeus in Spain.

Today we are present in Italy and Spain with two commercial offices and in several countries of Europe, Asia, Africa, and America with qualified distributors and technicians able to support every customer.



The requests of the Agri-Food chain

- * High-quality standards of production requested by the final consumer.
- * Disciplinary of production of fruits, vegetables and wines even more restrictive (**number of molecules, LMR, Zero Residue**).
- * Continuous growth of the request of **Organic farming products**.

Crop protection

- * Reduction of the number of active substances.
- * Absence of **alternative** methods for Organic farming protection.

Climate change

- * Increased virulence of many adversities due to climate changes.
- * Extreme weather events, greater abiotic stress.
- * Spread of new adversities.

Responsibility towards society and the environment

- * Territories where agriculture and urbanization coexist.
- * Health and safety of workers and consumers.
- * Protection of biodiversity and useful species.
- * Environmental sustainability of productions.

We work every day to find solutions to overcome these limitations.

ELICITOR, with **FUNGICIDE** and **BACTERICIDE** EFFECT
THROUGH THE STIMULATION OF THE NATURAL DEFENSE MECHANISMS

Chitacyl



Composition

Chitosan Hydrochloride ...7.5%

Formulation: Liquid
Specific weight: 1.02 g/ml
pH: 5.0 - 6.0
Colour: Dark brown

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
1000 L

Chitosan is a biopolymer resulting from the partial deacetylation of chitin, a structural component of the cell wall of fungi and the exoskeleton of insects and crustaceans. The term chitosan includes a family of molecules that differ in various characteristics (degree of deacetylation, molecular weight, degree of polymerization, and pKa) which influences the type of interaction with the plant or with the pathogen.

Chitosan has a strong direct activity against **fungi** and **bacteria**. Furthermore, it can agglutinate and form a mechanical barrier at the penetration sites of pathogens, isolating healthy tissues from infected ones. Chitosan also acts as a non-specific elicitor of **resistance mechanisms**, it stimulates the activation of both local and systemic defenses inducing **priming** and **SAR (Systemic Acquired Resistance)**. The action of chitosan manifests itself in the plant with various metabolic manifestations: increasing of Ca^{2+} in the cytosol, activation of MAP-kinases, deposition of **callose**, induction of oxidative "burst" and **HR (Hypersensitive Response)**, synthesis of abscisic acid, and accumulation of jasmonate, biosynthesis of phytoalexins and activation of **PR proteins (pathogen-related protein)**.

APPLICATION

Foliar spray

Apply every 14 days, minimum 4 times, and maximum 8 times during the crop cycle. Use a wetting agent to improve the effectiveness. Use an amount of water between 200-400 L/ha. Safety interval 0 days. Do not exceed the recommended doses of use.

Grapevine and **Table Grape**: (*Botrytis*, *Downy Mildew*, *Powdery Mildew*, *Esca Disease*) 50-100 ml/hl.

Avocado: (*Botrytis*, *Anthraxnose*, *Bacteriosis*, *Cercospora*, *Powdery Mildew*) 50-100 ml/hl.

Kiwifruit: (*Botrytis*, *PSA*) 50-100 ml/hl.

Pomegranate: (*Botrytis*, *Alternaria*) 50-100 ml/hl.

Vegetables (all): (*Downy Mildew*, *Botrytis*, *Powdery Mildew*, *Alternaria*, *Bacteriosis*, *Anthraxnose*, *Didymella*, *Septoria*, *Cladosporium*) 50-100 ml/hl.

Strawberry: (*Powdery Mildew*, *Botrytis*, *Anthraxnose*, *Bacteriosis*, *Leaf Spot*) 50-100 ml/hl.

Berries (Blackberry, Blueberry, Currant, Gooseberry, Raspberry, Rosehip): (*Botrytis*, *Powdery Mildew*, *Anthraxnose*, *Downy Mildew*, *Rust*, *Septoria*, *Bacteriosis*) 50-100 ml/hl.

Aromatic Plants (all): (*Botrytis*, *Powdery Mildew*, *Alternaria*, *Downy Mildew*, *Rust*, *Bacteriosis*) 50-100 ml/hl.

Cereals (all): (*Powdery Mildew*, *Rust*, *Septoria*) 50-100 ml/hl.

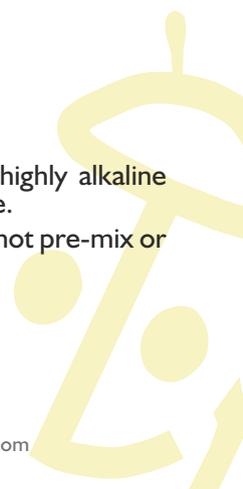
Forage Crops (all): (*Powdery Mildew*, *Rust*, *Septoria*) 50-100 ml/hl.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and nematicides except for highly alkaline (pH > 8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F - 95°F). Do not pre-mix or store in diluted form.

CLP: no H-phrases.





Composition

Bacillus subtilis AIBS-001, *B.licheniformis* AIBL-002,
B.simplex DMSZ1515, *B.amyloliquefaciens* SD-2,
B. pumilus 30004, *B.megaterium* MEG20011
 1×10^9 cfu/ml

Formulation: Liquid
Specific weight: 1.05 g/ml
pH: 5.0 - 7.0
Colour: Dark brown

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Nutritional product with a specific action, it maintains the optimal level of the natural physiological processes of the plant in the epochs of presence of **Botrytis**, **Monilia**, **Sclerotinia**, **Pythium**, **Rhizoctonia**, **Didymella**, **Fusarium**, and **Bacteria** infections.

FEATURES

Leaves and fruits

The selected Bacillus of **Antym Simplex/Rizokyl Simplex** applied at leaves are able to multiply themselves and produce numerous secondary metabolites (enzymes, lipopeptides, phenolic compounds, volatile compounds). These metabolites carry out various activities (antioxidants, surfactants, hormonal regulators) that protect and regenerate cellular tissues of leaves, flowers, and fruits damaged by degradation (eg. peroxidation of membranes) as a result of the attack of phytopathogenic fungi (eg. **Botrytis**, **Monilia**, **Sclerotinia**, **Colletotrichum**, **Stemphylium vesicarium**, **Powdery mildew**) and bacteria (eg. **Erwinia**, **Clavibacter**). They also stimulate plant synthesis of polyphenols and anthocyanins that improve the physiological state and increase the quality level of the productions. **Antym Simplex/Rizokyl Simplex** ensures rapid vegetative growth, tissue regeneration, and proper crop development.

Soil and roots

The selected Bacillus of **Antym Simplex/Rizokyl Simplex** have a high affinity for the roots and collar tissues of crops, they grow around them and stimulate the growth of the root apparatus and the development of the root hairs. *Bacillus megaterium* makes available phosphorus, iron, and other microelements; *B. pumilus* is a free nitrogen fixer that optimizes nitrogen nutrition. The increased water absorption capacity and nutrient availability create and increase of water pressure in the xylem vessels capable of overcome the eventual occlusion caused by vascular and collar pathogenic fungi (**Rhizoctonia**, **Pythium**, **Fusarium**, **Phytophthora**, **Verticillium**, **Bacteria**). The maintaining of high availability of water and nutrients allows the plant to keep high production capacities.

Genomics has highlighted the action of Bacillus on the stimulation of hormonal response and biosynthesis of polyphenolic compounds (lignin), which are fundamental processes for the good functioning of xylem and phloematic vessels and tissue regeneration.

APPLICATION

Foliar spray

Vegetables (all): 2.5-3.0 ml/L (min. 2.5 L/ha), every 7/15 days if necessary.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5-3.0 ml/L (min. 2 L/ha), in full bloom and in pre-harvest.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 2.5-3.0 ml/L (min. 2 L/ha), every 7/15 days if necessary.

Soil fertigation

Vegetables (all): 3 L/ha, every 15/30 days from transplanting or from the first true leaves.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5-3 L/ha, every 20/45 days from bud start.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 3 L/ha, every 20/30 days during the crop cycle.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and nematicides except for highly alkaline (pH > 8.5) products. To ensure the quickest results it is recommended to not mix with cupric products and to space applications of at least 48/72 hours. It is always recommended to perform tests of the mixture on the crop before extensive use. Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 30°C (41°F - 86°F). Do not pre-mix or store in diluted form.

CLP: no H-phrases.



Composition

Enzymatic extracts of <i>Beauveria</i> spp, <i>Metarhizium</i> spp, <i>Verticillium</i> spp	...10 %
Manganese (Mn) EDTA	...0.5 %
Zinc (Zn) EDTA	...1.5 %
Co-formulants	...at 100 %

Formulation: Liquid
Specific weight: 1.08 g/ml
pH: 5.0 - 7.0
Colour: Brown

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
200 L, 1000 L

Nutritional product with specific action, it maintains the optimal level of the physiological processes of the root system and the foliar apparatus at the times of presence of **Weevils, Elateridae** (Wireworms), **Thrips, Aphids, Mites, Olive flies**, and **Lepidoptera Noctuidae**.

BMV ensures rapid vegetative growth and stimulates the growth of new roots.

FEATURES

The product is able to:

- * Activate and amplify the response of plant metabolic systems;
- * Activates cell regeneration of roots;
- * Stimulates cell regeneration of plant tissues.

The combined action of the enzymes stimulates the physiological processes of ISR (Induced Systemic Resistance).

APPLICATION

Foliar spray

Temperature and humidity are the environmental parameters that most influence the efficiency; temperatures between 14°C (57°F) and 32°C (90°F) and relative humidity higher than 70% are the ideal values outside which the speed of action is considerably reduced and consequently the efficiency.

Vegetables (all): 2.5-3.5 ml/L (min. 3 L/ha), repeat every 4/10 days according to the crop's needs.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5-3.5 ml/L (min. 3 L/ha), repeat every 4/10 days according to the crop's needs.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 2.5-3.5 ml/L (min. 3 L/ha), repeat every 4/10 days according to the crop's needs.

Cereals (all), Industrial Crops (all): 2.5-3.5 ml/L (min. 3 L/ha).

Urban Areas and Sensitive Areas: 2.5-3.5 ml/L (min. 3 L/ha).

Soil application

Vegetables (all): 3-4 L/ha, every 15/30 days from the transplant or the first real leaves.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 3-4 L/ha, every 20/45 days from the start of the buds.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 3-4 L/ha, every 15/20 days during the crop cycle.

Cereals (all), Industrial Crops (all): Seed coating 5 L/ton of seeds.

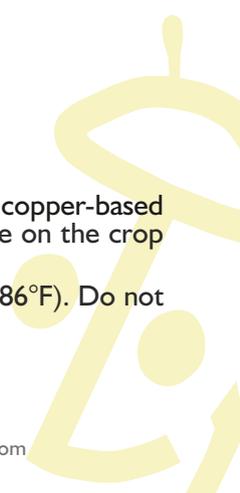
Urban Areas and Sensitive Areas: 3-4 L/ha.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and fungicides, except for copper-based products and highly alkaline (pH>8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool, dry place, away from direct sunlight. Store at temperatures between 5°C and 30°C (41°F - 86°F). Do not pre-mix or store in diluted form.

CLP: no H-phrases.



HIGH SPECIFIC BIOSTIMULANT
VITAMINS, AMINO ACIDS and NATURAL PHYTO-HORMONES
METABOLIC ENHANCER
of FRUITSET, FRUIT ENLARGEMENT,
OILS BIOSYNTHESIS and CRACKING PREVENTION

Boomerger



Composition

Free amino acids	...1.2 %
Vitamins	...5 %
Natural Phyto-hormones	...5000 ppm

Formulation: Liquid
Specific weight: 1.18 g/ml
pH: 5.0 - 7.0
Colour: Dark orange

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

High specific biostimulant that contains only natural phyto-molecules: phyto-hormones and their precursors, strong antioxidants agents, membrane protectors, metabolism stimulants. **Boomerger** boosts plant growth and fruit development for the best productive performances.

FEATURES

The product is able to:

- * Improve and protect fruit setting;
- * Promote cells division and therefore fruit enlargement;
- * Promote the biosynthesis of fatty acids (oil yield);
- * Improve and protect the elasticity of cell membranes, prevent fruits cracking.

Fruitset: **Boomerger** increases the fertility of the egg cells and the percentage of fruitset. The product improves pollen fertility stimulating and protecting the lengthening of the pollen tube. It protects the embryo from oxidative and degenerative stress preventing flowers and fruits drop. **Boomerger** prevents malformations of the fruits due to fertilization problems.

Fruit enlargement: cytokinin precursors stimulate cell division, membrane protectors increase elasticity and promote cellular distension.

Cracking prevention: membranes protectors are carried and inserted among the phospholipidic membranes, they protect them from oxidation by free radicals, thus the elasticity of the membranes is maintained.

Oils biosynthesis: **Boomerger** components stimulate the pathways of fatty acids biosynthesis and protect them from oxidation that reduces the quantity and quality of oil yield.

APPLICATION

Foliar spray

Fruit Vegetables (all): 1.5-2.0 ml/L (min. 1.5 L/ha), at flowering and at fruitset. 1.0-1.5 ml/L (min. 1 L/ha), every 5/15 days during fruits development.

Leaf Vegetables (all): 1.0-1.5 ml/L (min. 1 L/ha), every 7/15 days from the transplant or from the cotyledons.

Fruit Trees (all), Grapevine and Table Grape: 1.5-2.0 ml/L (min. 1.5 L/ha), at 30% of flowering and at fruitset. 1.0-1.5 ml/L (min. 1 L/ha), every 15/20 days during fruits development.

Olive Tree: 1.5-2.5 ml/L (min. 2 L/ha), at 30% of flowering, at fruitset and 40/50 days before harvest.

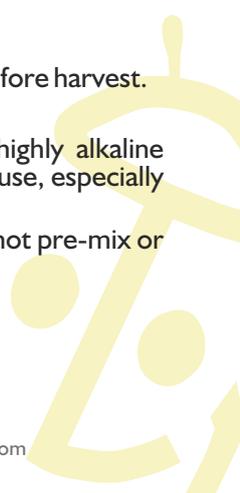
Soybean, Sunflower, Rapeseed: 1.5-2.0 ml/L (min. 1.5 L/ha), at 30% of flowering, at fruitset and at 40/50 days before harvest.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and fungicides, except for highly alkaline (pH > 8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use, especially with copper and sulphur products.

Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F - 95°F). Do not pre-mix or store in diluted form.

CLP: no H-phrases.





Composition

Nitrogen (N) organic ...1%
Carbon (C) organic ...> 10 %

Formulation: Liquid

Specific weight: 0.97 g/ml

pH: 5.0 - 7.0

Colour: Light yellow

Packing

1 L (Box 10 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
200 L, 1000 L

Cladus is a liquid fertilizer made from plant extracts from the Juglandaceae, Cupressaceae, Meliaceae, Fabaceae families; it contains terpene compounds, fatty acids, oils, amino acids, flavonoids. **Cladus** is a specific formulation that acts on the physiological processes of the plant and allows it to remain strong even in the presence of insects and mites.

Cladus ensures rapid vegetative growth and stimulates the plants.

FEATURES

The product is able to:

- * Activate and amplify the response of plant metabolic systems;
- * Increase the metabolic activity of plants in presence of **Aphids, Whiteflies, Thrips, Mites, Larvae of Lepidoptera and Diptera**;
- * Stimulate cell regeneration of plant tissue.

Cladus is made only by plant extracts.

APPLICATION

Foliar spray

For the best action is necessary to ensure correct, complete, and uniform wetting of the vegetation, use a **quantity of water** at least **1000 L (Vegetables in a greenhouse)**; **1250 L (Open field Vegetables)**; **1500/1750 L (Fruit Trees)**; **2000/2250 L (Citrus Fruit Trees)** per hectare. Acidify the solution to a **pH of 4.5 to 5.0** (eg. organic acids like citric or acetic acid).

Vegetables (all): 0.5-1.0 ml/L (min. 0.8 L/ha), repeat every 4/10 days according to the crop's needs.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 0.5-1.0 ml/L (min. 1 L/ha), repeat every 4/10 days according to the crop's needs.

Flowers, Ornamental Plants (all), Aromatic Plants (All): 0.5-1.0 ml/L (min. 1 L/ha), repeat every 4/10 days according to the crop's needs.

Urban Areas and Sensitive Areas: 1.0 ml/L (min. 1 L/ha).

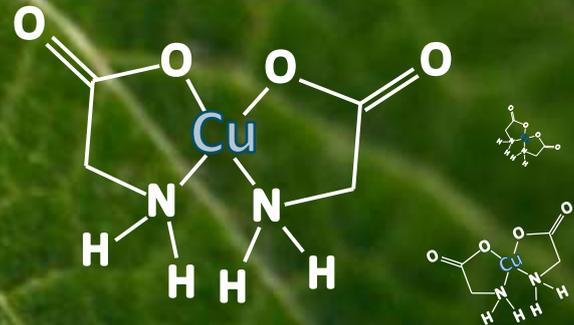
COMPATIBLY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and fungicides, with the exception of oils, copper products, highly alkaline (pH>8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool, dry place, away from direct sunlight. Store at temperatures between 5°C and 35°C (41°F - 95°F). Do not premix or store in diluted form.

CLP: no H-phrases.





Composition

Copper (Cu) ...6.5 %
Co-formulants ...to 100 %

Formulation: Liquid

Specific weight: 1.20 g/ml

pH: 2.0 - 3.0

Colour: Dark blue

Packing

1 L (Box 20 pcs) (Plt 720 L)
4 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Nutritional product with high efficient copper, it maintains the optimal level of the natural physiological processes of the plant in the epochs of presence of **Downy mildew, Scab, Alternaria, Rust, Anthracnose, Stemphylium, Septoria, Cercospora, Mal Secco of citrus, Olive peacock spot, Virosis** and **Bacteriosis (*Erwinia amylovora, Pseudomonas syringae, etc.*)**.

FEATURES

- * Copper complexed with natural carriers reaches high levels of bioavailability, biological responses are amplified locally and systemically thanks to the high mobility of the elements in the plant.
- * **Cuxamin** increases the photosynthesis so the energy available for plants both for growth and to overcome biotic (fungi, bacteria, viruses) and abiotic stresses.
- * **Cuxamin** increases the biosynthesis of polyphenolic compounds.
- * The product has a preventive action.

METABOLIC ACTIVATION

Cuxamin maintains maximum efficiency of photosynthetic processes (electron transport chain and PSI and PSII activities). Copper is fundamental for the functional components of the plant (Polyphenol oxidase, Zn/Cu superoxide dismutase, Ascorbate oxidase, Cu amine oxidase, Galactose oxidase, Plantacyanin, Plastocyanin).

The product protects plant cells from abiotic stress (heat, salinity, drought), it protects macromolecules (proteins) and accelerates protein synthesis de-novo during adaptation to stress and subsequent recovery.

Cuxamin acts on the acquired resistance systems both at the level of the **Hypersensitive Response (HR)** and of the **Systemic Acquired Resistance (SAR)** by increasing the biosynthesis of phytoalexins (Resveratrol, Viniferine, Piceid) and flavonoids.

APPLICATION

Foliar spray: do not mix with other copper products.

Vegetables (all): 0.25-1.0 ml/L (min. 0.25 L/ha), every 7/10 days from the transplant or from the cotyledons.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 0.25-1.0 ml/L (min. 0.25 L/ha), every 7/15 days from the first leaves unfolded.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 0.25-1.0 ml/L (min. 0.25 L/ha), every 7/15 days during the crop cycle.

Cereals (all), Industrial Crops (all): 0.25-1.0 ml/L (min. 0.25 L/ha).

Urban Areas and Sensitive Areas: 0.25-1.0 ml/L (min. 0.25 L/ha).

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and fungicides, except oils, Bordeaux mixture, other copper products and highly alkaline (pH > 8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F - 95°F). Do not pre-mix or store in diluted form.

CLP: H302, H315, H319, H400.



Composition

Manganese (Mn) EDTA	...3 %
Molybdenum (Mo)	...0.01 %
Zinc (Zn) EDTA	...1 %
Co-formulants	...to 100 %

Formulation: Liquid
Specific weight: 1.24 g/ml
pH: 5.0 - 7.0
Colour: Pinkish

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Nutritional product with a **high specific formulation**, it boosts the response of metabolic systems in leaves and fruits in periods of presence of **Alternaria, Anthracnose, Blast, Cercospora, Cladosporiosis, Coryneum, Phomopsis, Black rot, Downy mildew, Bremia, Rust, Septoria, Apple scab**.

FEATURES

The product is able to:

- * Activate and amplify the response of plant metabolic systems;
- * Activate the HR response (Hypersensitive Response);
- * Increase the metabolic activity of the superficial layers of leaves and fruits;
- * Be a specific carrier for a gradual release of Zinc and Manganese nutrients with a lipophilic affinity for the leaf cuticle;
- * Have a quick action (6/12 hours);
- * Be safe even in applications during bloom.

Manganese

* Plays a key role in photosynthesis for the photosystem II-water oxidizing system.* Manganese activates enzymes for lignin and phytoalexins biosynthesis.* Peroxidase is an Mn-dependent enzyme that contributes to pathogen resistance.* Manganese plays an important role in improving stress tolerance, like superoxide dismutase cofactor, which is responsible for the detoxification of the destructive free radicals.* Manganese is essential for fatty acid production, for cuticular wax deposition, then for non-stomatal water loss and protection to both drought and heat stress.* Manganese has relatively low phloem mobility in plants, so it's very important an efficient formulation as **Manzic MZ**.

Zinc

* Maintains the structural integrity of cell walls is involved in the synthesis of proteins and starches.* A Zinc deficiency contributes, therefore, to the accumulation of sugars and amino acids causing their leakage on the surface of the leaf, this excess of nutrients is a substrate for the development of phytopathogenic fungi and bacteria.* Zinc is an activator of the enzyme Cu/Zn-SOD involved in the protection of membranes against oxidative damage through detoxification of free radicals.* Zinc guarantees a better efficiency of DNA polymerase, responsible for DNA duplication, avoiding possible mistakes in the transcription phase.* Zinc confers stability and maintenance of ribose structure in protein synthesis.

APPLICATION

Foliar spray

Vegetables (all): 2.5-3.5 ml/L (min. 2.5 L/ha), every 7/10 days as needed from the transplant or from the first real leaves.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5-3.5 ml/L (min. 2.5 L/ha), every 7/15 days as needed from the first leaves unfolded.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 2.0-3.0 ml/L (min. 2 L/ha), every 7/20 days during the crop cycle.

Cereals (all), Industrial Crops (all): 2.5-3.5 ml/L (min. 2.5 L/ha).

Urban Areas and Sensitive Areas: 2.0-3.0 ml/L (min. 2 L/ha).

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and fungicides, except oils, calcium-based products, ionic wetting, Bordeaux mixture, highly alkaline (pH > 8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use. Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F - 95°F). Do not pre-mix or store in diluted form.

CLP: no H-phrases.

ORGANIC FERTILIZER
with VITAMINS, AMINO ACIDS and ENZYMATIC EXTRACTS
ACTIVATOR of NATURAL
PHYSIOLOGICAL MECHANISMS
in SOIL INFESTED by NEMATODES

Nemakyl^{5C}



Composition

Enzymatic extract of <i>Bacillus megaterium</i> , <i>Pseudomonas</i> spp.	10 %
Vitamins, Free amino acids	5 %
Phyto-molecules	25 %

Formulation: Liquid
Specific weight: 1.16 g/ml
pH: 5.0 - 7.0
Colour: Dark brown

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Nutritional product with a specific action, it maintains the optimal level of the physiological processes of the root system in the periods of presence of **nematodes**. It stimulates the biosynthesis of lignin, polyphenols, callose, and other structural components of the roots improving their mechanical strength. It stimulates the emission of new roots and the formation of root hairs, thus increasing the absorption capacity; therefore, it allows the plant to remain vigorous even in soils with a high presence of **nematodes**.

METABOLIC ACTIVATION

The product is able to:

- * Activate and amplify the response of plant metabolic systems;
- * Increase the metabolic activity of roots in the presence of nematodes;
- * Stimulate the emission of new roots and the development of the radical capillice.

Amino acids stimulate the synthesis of proteins, polyphenols, and lignin for the increase of the resistance of the root tissues; Enzymatic extracts of *Bacillus megaterium* and *Pseudomonas fluorescens* promote cell regeneration and Induced Systemic Resistance (ISR) activation;

Nemakyl 5C has a persistent and long-term action.

APPLICATION

Soil fertigation

For the best and long-term action, it is suggested to apply the product in the early stages of cultivation (transplanting or first real leaves). The product can be applied by fertigation, taking care to start with slight irrigation, then apply the product and finish with only water to ensure the cleanliness of the irrigation lines and the correct distribution in the rhizosphere. Do not exceed with irrigation to avoid leaching.

Vegetables (all): 10 L/ha, at transplant or from the first true leaves. Repeat at 5 L/ha, every 20/30 days.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 5 L/ha, every 20/45 days from bud start.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 5 L/ha, every 15/30 days during the crop cycle.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, nematicides, and fungicides to the exclusion of calciocyanamide, products with high copper content and strongly alkaline products (pH>8.5). It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 30°C (41°F - 86°F). Do not pre-mix or store in diluted form.

CLP: no H-phrases.

PHYTOSTIMULANTS
 VEGETAL OILS
 ACTIVATOR of NATURAL
 PHYSIOLOGICAL MECHANISMS
 and RESISTANCE SYSTEMS in presence of INSECTS

Oliveg

Oliveg^{Micro}



FiBL



Composition Oliveg

Vegetal extracts	...72 %
Organic matter	...63 %
Nitrogen (N) organic	...0.18 %
Co-formulants	...to 100 %

Composition Oliveg Micro

Vegetal extracts	...50.5 %
Zinc (Zn) EDTA	...2 %
Co-formulants	...to 100 %

Formulation: Liquid emulsion
Specific weight: 0.96 -1.04 g/ml
pH: 5.0 - 7.0
Colour: Light brown

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Phytostimulants with a natural specific action in the periods of presence of **Aphids, Whiteflies, Thrips, Mirids, Lepidoptera, Coccids, Diptera,** and **Mites** through physiological, physical, and mechanical processes.

FEATURES

The products are able to:

- * Activate and amplify the response of plant metabolic systems;
- * Act both by foliar and root application.

Oliveg and Oliveg Micro:

- * Have a fast and effective action;
- * Are formulated in emulsion for better wetting and adhesion;
- * Are made only from vegetal raw materials also allowed for human consumption.

The combined action of the components of **Oliveg** and **Oliveg Micro** (Oils, Terpenes, Phyto-components, VOCs) allows maximum adaptability to different environmental and cultivation conditions, they guarantee the maximum effectiveness in every situation.

They allow you to keep the higher production standards even in the presence of phytopathogenic insects and mites.

APPLICATION

Foliar spray

For the best action acidify the solution to **pH 4.5 - 5.0** preferably with organic acids (eg. citric or acetic acid), and use **quantities of water** not lower than those indicated as follow: **Greenhouse vegetables:** 1000 L/ha; **Open field vegetables:** 1000-1250 L/ha; **Fruit Trees, Grapevine and Table Grape, Olive Tree, Flowers, Ornamental and Aromatic Plants:** 1500-1750 L/ha; **Citrus fruit Trees:** 2000-2250 L/ha.

Vegetables (all): 2.5-3.5 ml/L (min. 2.5 L/ha), repeat as needed every 4/10 days according to the needs of the crop.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5-3.5 ml/L (min. 2.5 L/ha), repeat as needed every 4/10 days according to the needs of the crop.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 2.5-3.5 ml/L (min. 2.5 L/ha), repeat as needed every 4/10 days according to the needs of the crop.

Cereals (all), Industrial Crops (all): 2.5-3.5 ml/L (min. 2.5 L/ha).

Urban Areas and Sensitive Areas: 2.5-3.5 ml/L (min. 2.5 L/ha).

Soil fertigation

Vegetables (all): 3-4 L/ha, every 15 days from transplanting or from the first true leaves.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 3-4 L/ha, every 20/45 days from bud start.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 3-4 L/ha, every 15/20 days during the crop cycle.

COMPATIBILITY and WARNINGS

The products are generally compatible with fertilizers, insecticides, acaricides, and fungicides, except oils, Bordeaux mixture, other copper products and highly alkaline (pH>8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use. Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F-95°F). Do not pre-mix or store in diluted form.

CLP: H315, H319, H413.



EC FERTILIZER
COPPER, MANGANESE, MOLYBDENUM, ZINC
SYSTEMIC ACTIVATOR of NATURAL
PHYSIOLOGICAL MECHANISMS
and RESISTANCE SYSTEMS

Phytalex MZ



FiBL



Composition

Copper (Cu)	...2 %
Manganese (Mn)	...1 %
Molybdenum (Mo)	...0.01 %
Zinc (Zn)	...1 %
Co-formulants	...at 100 %

Formulation: Liquid
Specific weight: 1.19 g/ml
pH: 3.0 - 4.0
Colour: Dark brown

Packing

1 L (Box 20 pcs) (Plt 720 L)
4 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Nutritional product that boosts the response of metabolic systems in leaves, roots, and vascular system in periods of presence of pathogenic **fungi**, **bacteria**, and **virus**. It maintains the optimal level of efficiency of the plants and a high production level in presence of biotic and abiotic stresses.

FEATURES

Phytalex MZ has a systemic action both with an acropetal and basipetal movement and is able to:

- * Activate PR proteins and metabolic pathways for the biosynthesis of low molecular weight phenolic compounds and polysaccharides (callose) with high protective activity;
- * Stimulate and increase enzyme activity: PAL, PPO, peroxidase, and protease inhibitors;
- * Stimulate the biosynthesis of polyphenols and lignin, increase mechanical strength;
- * Stimulate photosynthetic processes, increase the energy available to the plant to counteract the effects of degeneration;
- * Act on xylem vessels with a vasodilator effect, improve the efficiency of water transport even in vessels blocked by fungi and/or phytopathogenic bacteria.

Phytalex MZ has only a preventive action.

APPLICATION

Foliar spray

It amplifies the response of the metabolic systems of leaves and fruits in periods of presence of **Downy mildew**, **Scab**, **Alternaria**, **Rust**, **Stemphylium**, **Virosis**, and **Bacteriosis**.

Vegetables (all): 2.5-3.5 ml/L (min. 2.5 L/ha), every 7/10 days from the transplant or from the cotyledons.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5-3.5 ml/L (min. 2.5 L/ha), every 7/15 days from the first leaves spread out.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 2.5-3.5 ml/L (min. 2.5 L/ha), every 7/20 days during the growing cycle.

Cereals (all), Industrial Crops (all): 2.5-3.5 ml/L (min. 2.5 L/ha).

Urban Areas and Sensitive Areas: 2.5-3.5 ml/L (min. 2.5 L/ha).

Soil fertigation

It amplifies the activity of the metabolic systems of roots and vascular system in the periods of presence of **Fusarium**, **Verticillium**, **Phytophthora**, **Esca disease**, **Armillaria**, **Wood cancer**, **Kiwifruit PSA**, **Xylella**.

Vegetables (all): 5 L/ha, every 15/30 days from transplant or from the first true leaves.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 5 L/ha, every 20/45 days from bud start.

Flowers (all), Ornamentals Plants (all), Aromatic Plants (all): 5 L/ha, every 7/20 days during the crop cycle.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and fungicides, except oils, Bordeaux mixture, other copper products and highly alkaline (pH > 8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use. Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F- 95°F). Do not pre-mix or store in diluted form.

CLP: H315, H318, H410.



Composition

Organic copolymer ...45 %
Co-formulants ...to 100%

Formulation: Liquid
Specific weight: 1.05 g/ml
pH: 6.0 - 7.0
Colour: White

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

A self-crosslinking organic degradable copolymer. It regulates water exchanges and protects the plant from the damages caused by freeze or excessive water loss/absorption of tissues.

FEATURES

ScudoTherm applied on plants forms a **semi-permeable membrane** that regulates the water exchanges between plants and the environment. The product is able to:

- * Protect from spring frost;
- * Reduce cracking;
- * Protect from warm, sun, and wind burns;
- * Increase shelf-life of cut flowers;
- * Enhance engraftments of herbaceous grafts.

Action against freeze: During a freeze, nucleated ice on a leaf surface is formed, and can enter the plant through stomata or hydathodes. The initial growth of ice through the plant can be very rapid and cause cellular dehydration. The most important cause of freezing damage is when this dehydration exceeds what cells can tolerate. The membrane structure is damaged, the physiological consequence is detectable as leakage of electrolytes and other solutes even before thawing. The membrane formed by **ScudoTherm** protects from the entrance of nucleated ice preventing damages.

Action against wind and excess of transpiration: The transpiration of the leaves depends on two fundamental factors: 1) the difference in the concentration of water vapor between the air in the aerated spaces of the leaf and the outside air; 2) diffusion resistance due to the stomata and due to the layer of still air that is on the surface of the leaf. When the wind speed is high, the thickness of the boundary layer on the leaf surface is reduced, thus the loss of water from the leaf increases. The membrane formed by **ScudoTherm** maintains the optimal level of transpiration.

Action against cracking: Fruit cuticle contains pores that allow some water penetration osmotically moved from the wetted fruit surface. This excess of water causes leaching of the vacuolar contents and loss of the enclosing structure of the dermal layers. A combination of the tensile forces acting on the fruit surface from inside and the loss of bearing structure of the fruit skin causes fruit cracking.

APPLICATION

Foliar spray: For the best action apply 12-24 hours before the atmospheric event. The product maintains its effectiveness for about 15 days; this duration is influenced by climatic conditions, in particular by precipitation. The membrane, although elastic, is not able to follow the growth of the plant; for plants in full growth, it is necessary to repeat the application to ensure effectiveness on the newly formed parts. If applied with low-volume sprayers do not use the recovery system.

Protection from spring frost: 10-20 ml/L (min. 3.5 L/ha).

Cracking reduction: 10-15 ml/L (min. 5 L/ha).

Protection from warm and wind burns: 10-15 ml/L (min. 5 L/ha).

Increasing shelf-life of cut flowers: 15-20 ml/L, apply 24 hours before cutting.

Engraftments of herbaceous grafts: 15-20 ml/L, apply on mother plants 24 hours before the grafts cut.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and fungicides to the exclusion of products containing polysulfides or strongly alkaline (pH > 8.5) products. It is always recommended to perform tests of the mixture on the crop before extensive use. Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F- 95°F). Do not pre-mix or store in diluted form.

CLP: no H-phrases.

Composition

Potassium oxide (K ₂ O)	...9.5 %
Silicon oxide (SiO ₂)	...22 %
Co-formulants	...to 100 %

Formulation: Liquid

Specific weight: 1.32 g/ml

pH: 10.5 - 11.5

Colour: Transparent

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

The innovative formulation of silicon fertilizer from our own research acts on the plant's cellular structures increasing the **mechanical resistance** of tissues. **Silik EVO** increases the natural physiological processes in the epochs of presence of **Powdery mildew, Insects, and Mites**. The product activates the enzymatic processes of resistance to heat and salinity. **Silik EVO** improves crop shelf-life and accelerates wounds healing.

FEATURES

Silik EVO improves a lot of plant metabolic systems:

- * Improves the biosynthesis of chlorophyll and so the photosynthesis ratio;
- * Improves the biosynthesis of Phospholipids and Glycolipids;
- * Increases the mechanical strength of cell walls and xylem vessels;
- * Accelerates the **healing processes** of wounds;
- * Improves metabolic activity and enzymatic activity even in the presence of fungi (oidium), insects, and mites;
- * Increases resistance to **thermal** and **drought stress**;
- * Optimizes the **transpiration**;
- * Increases the **shelf-life** of fruits and vegetables and floricultural products.

The application of **Silik EVO** during the whole crop cycle ensures an increase of dry matter and yield with a better shelf life. These results are obtained both for an increase of the general metabolism of the plants and for a strong reduction of biotic and abiotic stresses.

APPLICATION

Foliar spray

Vegetables (all): 2.5-7.5 ml/L (min. 2.5 L/ha), every 7/15 days from the transplant or from the first true leaves.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5-7.5 ml/L (min. 2.5 L/ha), every 15/20 days from the first leaves unfolded. 10 ml/L for the winter application

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 2.5-5.0 ml/L (min. 2.5 L/ha), every 7/20 days during the growing cycle.

Cereals (all), Industrial Crops (all): 2.5-6.5 ml/L (min. 2.5 L/ha).

Urban Areas and Sensitive Areas: 2.5-7.5 ml/L (min. 2.5 L/ha).

Soil fertigation

Vegetables (all): 3-6 L/ha, every 15/30 days, from transplant or from the first true leaves.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 3-6 L/ha, every 20/45 days from bud start.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 3-6 L/ha, every 7/20 days during the crop cycle.

COMPATIBILITY and WARNINGS

The product is strongly alkaline, in the periods of presence of Powdery mildew, Insects, and Mites it is advisable to use it alone.

In case of mixture with fertilizers, insecticides, acaricides, and fungicides it is recommended to acidify with organic acids (follows the table in our website). It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F - 95°F). Do not pre-mix or store in diluted form.

CLP: H315, H319.



Composition

Free Aminoacids	...3 %
Magnesium (MgO)	...3 %
Boron (B)	...0.2 %
Complex polysaccharides	...65 %

Formulation: Liquid
Specific weight: 1.20 g/ml
pH: 6.0 - 7.0
Colour: Light brown

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Sugar Power is a nutritional product with a unique formulation, it acts on specific physiological processes related to the transport of sugars. It increases the translocation of sugars towards the fruits and increases the °Brix, it also improves and harmonizes the ripening, promotes the accumulation of anthocyanins, flavonoids and carotenoids for fruit coloring.

FEATURES

The product is able to:

- * Increase the translocation of **sugars** from leaves to fruits;
- * Increase °**Brix**;
- * Increase the yield and quality of fruits;
- * Promote uniform fruit **ripening**.
- * Promote **fruit coloring**.

Accumulation of sugars: The sugars (sucrose, glucose, and fructose) produced by photosynthesis are translocated from the leaves ("source" organs) towards the fruits ("sink" organs) through the phloematic vessels. The passage of sugars from the phloem to the fruit is an active transport mediated by carrier proteins that load the sugars from the phloem and transport them to the fruits. This active transport requires energy and it is more efficient if the sugars are correctly complexed with molecules that increase permeability and therefore are more easily recognized by carrier proteins.

The components of **Sugar Power** provide the energy needed for active transport having high efficiency in complexing sugars and increasing membrane permeability.

The result is bringing the plants to the highest level of efficiency in sugars translocation.

Optimize fruit ripening and coloring: each crop follows its own ripening cycle in which there is a switch in metabolism regulated by changes in gene expression and therefore by specific enzymatic and physiological activities. These modifications are (almost always) very clear, they start at precise moments in the vegetative cycle and correspond to the beginning of the sugar accumulation processes. This is the right time to apply **Sugar Power** and take full advantage of its features.

APPLICATION

Foliar spray

Pome fruits: 2.5 L/ha, 40 days before harvesting, repeat after 15 days. **Berries and Small Fruits:** 2.5 L/ha, at the beginning of veraison. **Carrot:** 2.5 L/ha, 45/30 days before harvesting. **Cherries:** 2.5 L/ha, at the beginning of veraison. **Citrus Fruits:** 2.5 L/ha, at the beginning of veraison, if necessary repeat after 15 days. **Kiwifruit:** 2.5 L/ha, 70/55 days before harvesting, repeat after 30 days. **Grapevine and Table Grape:** 2.5 L/ha, at the beginning of veraison, if necessary repeat after 15 days. **Mango:** 2.5 L/ha, 50 days after flowering. **Melon, Watermelon:** 2.5 L/ha, 25/20 days before harvesting. **Peach, Nectarines, Apricot, Plums:** 2.5 L/ha, 35/25 days before harvesting, repeat after 10 days. **Potato:** 1.5 L/ha, at 50% of flowering, repeat after 15 days at 1.5 L/ha. **Strawberry:** 2.5 L/ha, at the beginning of veraison. **Sugar Beet:** 2.5 L/ha, 50/40 days before harvesting, repeat after 20/15 days. **Sugar cane:** 2.5 L/ha, 3 applications 90 days, 60 days, and 30 days before harvesting. **Tomato (processing):** 2.5 L/ha, at the beginning of the second branch veraison.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, miticides, and fungicides, excluding products containing Fosetyl-Al, highly alkaline (pH>8.5) products, and mineral oils. It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F- 95°F). Do not pre-mix or store in diluted form.



Composition

Sulphur (S)	...34 %
Nitrogen (N) organic	...3 %
Carbon (C) organic	...10 %

Formulation: Liquid

Specific weight: 1.30 g/ml

pH: 2.5-3.5

Colour: Light grey

Packing

1 L (Box 20 pcs) (Plt 720 L)
5 L (Box 4 pcs) (Plt 720 L)
20 L (Plt 640 L)
200 L, 1000 L

Nutritional product based on the integrated action of Sulphur associated with amino acids. It acts on the physiological processes of the plant and allows it to remain vigorous even in presence of phytopathogenic fungi (**Powdery mildew, Apple scab, Rust, Coryneum**), **Mites**, and **Eriophides** that limit crop productivity.

Sulphur is a fundamental nutritional component for plants, constituting proteins with an active role in enzymatic activities, it is essential in the biosynthesis of chlorophyll; the association with the amino acids guarantees its perfect efficiency, for a resistant and productive culture.

FEATURES

Sulphamin improves many plant metabolic systems:

- * Immediate availability of Sulphur and rapid response and greening of crops;
- * Stimulation of the biosynthesis of molecules essential for plant resistance to environmental stresses: Glutathione, Thioredoxin, Glutaredoxin, Low molecular weight Thiols, Phytochelatine;
- * Innovative formulation that amplifies the efficiency of sulphur;
- * Liquid formulation that guarantees easy use in the dosage.

APPLICATION

Foliar spray

Greenhouse Vegetables (all): 1.5-3.0 ml/L (min. 1.5 L/ha), every 7/15 days if necessary.

Open field Vegetables (all): 2.0-3.0 ml/L (min. 1.5 L/ha), every 7/15 days if necessary.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 1.5-3.0 ml/L (min. 2 L/ha), every 7/15 days if necessary.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 1.5-3.0 ml/L (min. 1.5 L/ha), every 7/15 days if necessary.

Cereals (all), Industrial Crops (all): 1.5-3.0 ml/L (min. 2 L/ha), every 7/15 days if necessary.

Urban Areas and Sensitive Areas: 1.5-3.0 ml/L (min. 1.5 L/ha), every 7/15 days if necessary.

COMPATIBILITY and WARNINGS

The product is compatible with all fertilizers, insecticides (excluding mineral oils), acaricides, herbicides, and fungicides excluding strong alkaline products (silicates, bicarbonates, polysulphides, Bordeaux mixture, etc.); space at least 20/25 days from applications of Captan, Diclofluanid, Folpet. Any improper mixture with pesticides must be tested before use on a large scale. It is always recommended to perform tests of the mixture on the crop before extensive use. Do not exceed the recommended dose. Use sufficient volumes of water to guarantee the correct and uniform coverage of the vegetation. On all notoriously physio-sensitive cultures, it is recommended to use the product only after having tested the absence of phytotoxicity phenomena. Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 35°C (41°F-95°F). Do not pre-mix or store in diluted form.

CLP: H315.



Composition

Trichoderma harzianum,
Trichoderma viride ... 1×10^7 cfu/g
Co-formulants ...to 100%

Formulation: Wettable powder

Specific weight: 0.35 g/ml

pH: 4.5-6.0

Colour: Whitish

Packing

1 kg (Box 10 pcs) (Plt 250 kg)

5 kg (Box 1 pcs) (Plt 250 kg)

Nutritional product with a specific action, it maintains the optimal level of physiological processes of the root system in periods of presence of **Sclerotinia, Pythium, Rhizoctonia, Fusarium, Verticillium, Phytophthora, Armillaria mellea, Esca disease**.

Maximum efficiency of the radical and vascular apparatus

A well-developed root system and an efficient vascular system are the trump cards for a high crop yield. **Tricxs** maximizes water and nutrient absorption, keeping their transport efficient inside the plant, for optimal growth. The selected *Trichoderma* are able to stimulate the emission of the lateral roots activating the cells of the pericycle; the result is an increase in the root biomass and the absorbent surface which can reach increments of over 100%.

With **Tricxs** this is possible, the application to sowing or transplanting will guarantee effectiveness and benefits for the whole crop cycle.

High productions also in the presence of vascular and collar pathogenic fungi

The **Tricxs** selected *Trichoderma* have a high affinity with the roots of all crops, growing around them and stimulating the growth of the root system and the development of the capillitium. The increase in the ability to absorb water and nutrients creates an increase in pressure in the xylem vessels capable of overcoming the eventual occlusion caused by vascular and collar pathogenic fungi. Maintaining high availability of water and nutrients for the foliar apparatus allows maintaining high productive capacities of the plant.

Effective and efficient nutrition

Tricxs' *Trichoderma* can improve the nutritional status of all crops. *Trichoderma* solubilize insoluble phosphates (tricalcium phosphate in alkaline soils and iron and aluminum phosphates in acid soils) thanks to the action of secreted phosphatases in the presence of phosphorus salts. They complex microelements with specific organic molecules; they reduce into the form Fe^{++} which is better absorbed by the plants. They increase the resistance to salinity thanks to the production of molecules with antioxidant and osmo-protective action that can also promote the expulsion of sodium through radical exudates. These beneficial effects further improve the nutritional status of the plant, enabling it to provide the best production performance.

APPLICATION

Soil fertigation: In integrated strategies, apply at least 72 hours after a fungicide. For a rapid and effective action, apply mixed to a fertilizer rich in organic substance. Pre-germination is not necessary.

Vegetables (all) in the Nursery: in the growing medium: 250 g/m³ well mixed. After sowing: irrigate with a suspension at 4/5 g/L. Before transplanting: wet with a suspension at 10 g/L.

Vegetables (all) in Greenhouses and Open Fields: 2.5 kg/ha, after sowing/transplant. Repeat after 15 days.

Fruit Trees (all), Grapevine and Table Grape, Olive Tree: 2.5 kg/ha, at transplant. Repeat each year at 1.0 kg/ha at sprouting.

Flowers (all), Ornamental Plants (all), Aromatic Plants (all): 2.5 kg/ha, after sowing/transplant. Repeat after 15 days.

Cereals (all), Industrial Crops (all): Seed coating 2.0 kg/Ton of seeds.

Urban Areas and Sensitive Areas: 2.5 kg/ha.

COMPATIBILITY and WARNINGS

The product is generally compatible with fertilizers, insecticides, acaricides, and nematicides except for highly alkaline (pH > 8.5) products. For the application with fungicides check the "compatibility chart". It is always recommended to perform tests of the mixture on the crop before extensive use.

Store in a cool dry area out of direct sunlight. Store at temperatures between 5°C and 30°C (41° - 86°F).

CLP: no H-phrases.



Research and Innovation

Innovation sets man free from the constraints and generates greater competitiveness.

Every day we work, study, observe and test something new; to give us and our customers the chance to break free from the constraints of the field, the regulations, and markets. Because Agridaeus was born as a research and development company, we are focused on our products, to improve efficiency and application strategies. For us, research in agriculture never stops.

Our formulations are the result of internal research, and, in collaboration with universities and research centers in Italy and around the world, we have acquired a very high level of know-how, to discover highly effective solutions and innovative action mechanisms.

Today Agridaeus has its own research laboratory, climatic chamber, and an experimental farm where formulations can be tested; this guarantees us the complete knowledge of our products that we can transfer to our customers worldwide.

Provide the tools and the solutions to increase the competitiveness for our customers, this is our goal.



High Specific Plant Nutrition

In recent years the importance of sustainable agriculture has risen to become one of the most important issues in agriculture. In addition, plant diseases continue to play a major limiting role in agricultural production. The control of plant diseases using classical pesticides raises serious concerns about food safety, environmental quality, and pesticide resistance, which have dictated the need for alternative pest management techniques. In particular, nutrients could affect the disease tolerance or resistance of plants to pathogens and abiotic stress.

Christos Dordas - Aristotle University of Thessaloniki

Most of the approaches used in sustainable agriculture highlight how to provide balanced and targeted nutrition to the needs of the crop, increasing the availability of some elements able to improve the tolerance of plants to stress and diseases.

Ingrid Oborn - Swedish University of Agricultural Sciences

Providing balanced nutrition targeted to the needs of crops, increasing the availability of some elements, improves the tolerance of plants to biotic and abiotic stresses.

We develop specific, balanced, and innovative nutritional products that, when applied appropriately and in the correct stages of plant development, enhance the performance of Integrated Pest Management. The nutraceutical concept is applied to crops.

We believe in this strategy, and the customers who follow us have had the confirmations.

Agridaeus, life for agriculture!

* The indicated products are not pesticides, they are fertilizers that, integrated in the cultivation strategies, allow to improve the plant's nutritional status and consequently the crop production performance. References to diseases are intended exclusively for the purpose of identifying a particular vegetative stage or particular climatic/environmental situation that requires appropriate fertilization strategies.

This catalogue cancels and replaces the previous ones. Agridaeus Srl assumes no responsibility, either expressed or implied, of any nature regarding the completeness and accuracy of any type of information contained and/or reported in this catalogue.
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