

Agricultural Biospecialities



Innovative solutions for the
Crops Wellness



**CHOOSE YOUR
LANGUAGE
AND PRICELIST**



SKL
CROPS WELLNESS

SKL

Biosyntesis

In the global supply challenge for Nutritional, Biorational and Phytobiotic specialities, "competence, innovation and superior services" are qualities that our costumers appreciate the most.


We improve constantly our experience in Plant Nutrition and Care, offering sensitivity, dedication, passion and energy for our work. We provide our customers with the best specialities and solutions to create the best performances in the field, with the lowest environmental impact. We work to build strong and long-term relationships with ur customers through borders and cultures.

Markets, tastes and technologies are still in evolution, so we are in continuous research for the most advanced bio-solutions and formulations for plant wellness, providing our customers a wide range of products that allow:

- our customers to be competitive with best results;
- consumers to have healthier and safer food, produced respecting the increasingly strict standards regulation that protects man and environment from a large use of harmful chemical products.

Our final goal is to provide our customer the higher quality agricultural products and maximize the results with diligence and integrity, in line with a philosophy based on Quality, Competitive Prices and Reputation, using our energies for customers satisfaction.





Your partner in **‘Crops Wellness’**

BASIC SUBSTANCES

4

CORROBORANTS

10

BIOPROTEK LINE

18

BIOSTIMULANTS

22

ESSENTIAL OILS

26

COPPER BASED

38

COMPLEXED ELEMENTS

42

SPECIAL LINE

46

SULPHUR LINE

50

ORGANIK LINE

54

BIOCONTROL

62





Regulation (EC) No 1107/2009

Basic Substances

According to the art. 23, paragraph 1 of the reg. (EC) n. 1107/2009, a Basic Substance:

- is not a potentially dangerous substance;
- does not possess an intrinsic ability to cause harmful effects on the endocrine system or neurotoxic or immunotoxic effects;
- is not used primarily for phytosanitary purposes, but is useful for this purpose;
- is not placed on the market as a phytosanitary product.

In general: Basic Substance is considered an active substance that meets the criteria of "food product" as defined in art. 2 of Reg. CE n.178 / 2002 on food safety.

Compared to plant protection products:

- a Basic Substance is approved for an unlimited period for all of Europe;
- no registration of the single product (or mixture of products) is required;
- there are no specific MLRs (except in rare cases);
- the product label, if used for phytosanitary purposes, must indicate that the

Basic Substance contained is approved in accordance with Art. 23 of the Reg. (EC) n. 1107/2009

SUMMARY

CHITOSAN

CHITOSAN VEG

WILLOW BARK

EQUISETUM ARVENSE

NETTLE EXTRACT

SOY LECITHIN

SUNFLOWER OIL

HYDROGEN PEROXIDE

TALC

SODIUM BICARBONATE

MUSTARD PELLETS

FRUCTOSE

WHEY MILK

CALCIUM HYDROXIDE

VINEGAR

ONION BULB EXTRACT

Basic Substances



Chitosan

Antibiotic action
against pathogens
Animal origin

Chitosan hydrochloride	5% & 10%
Appearance	sediment-free solution.
Solid content	> 6%
pH	3.7 - 4.3
Specific weight	1.02 - 1.04

Chitosan, extracted from exoskeleton of crustaceans, when applied foliar or for seed treatment, induces a series of beneficial responses in numerous crops:

- direct antibiosis against crop pests and pathogens;
- increases the number of microorganisms beneficial to the plant;
- stimulates plant defenses against biotic stresses;
- regulates plant growth, development, nutrition, and tolerance to abiotic stresses.

Chitosan Veg


Antibiotic action


against pathogens
Vegetal origin (fungi)


Chitosan hydrochloride	5% & 10%
Appearance	sediment-free solution
Solid content	> 6%
pH	3.7 - 4.3
Specific weight	1.02 - 1.04

Chitosan, extracted from vegetal origin (fungi), when applied foliar or for seed treatment, induces a series of beneficial responses in numerous crops:

- direct antibiosis against crop pests and pathogens;
- increases the number of microorganisms beneficial to the plant;
- stimulates plant defenses against biotic stresses;
- regulates plant growth, development, nutrition, and tolerance to abiotic stresses.

	<h1>Willow Bark</h1> <p>Elicitor of crops self defense mechanisms with fungicide action</p> <table><tr><td>Powder Salix cortex</td><td>100%</td></tr><tr><td>Purity</td><td>Agricultural Grade</td></tr></table>	Powder Salix cortex	100%	Purity	Agricultural Grade	<p>Willow Bark is rich in various compounds, particularly polyphenols and salicylic acid. Its use has long been established in Organic and biodynamic Agriculture practices as support for crop self-defense mechanisms against fungal adversities. The use of dehydrated powder gives the product increased shelf life.</p> <p>Controls and prevents Peach Leaf Curl (<i>Taphrina deformans</i>), Apple Scab (<i>Venturia inaequalis</i>), Grape and Apple Powdery Mildew (<i>Erysiphe necator</i>), Grape Downy Mildew (<i>Podosphaera leucotricha</i>), Grape Downy Mildew (<i>Plasmopara viticola</i>).</p>
Powder Salix cortex	100%					
Purity	Agricultural Grade					

	Equisetum arvense		Equisetum arvense has long been known in Organic and Biodynamic Agriculture for its preventive effects on fungal diseases. Its use is authorized in horticulture, fruit trees, red fruits (berries), vines, and its effectiveness has been demonstrated in the control and prevention of Molds, Alternaria, and Rusts.
	It opposes the active penetration of fungal pathogens		
	Equisetum arvense		Its efficacy is based on its stimulating action on plant defense mechanisms, thanks to its content of Silicon bound to proteins and salts rich in Potassium and Magnesium, along with saponins, flavonoids, and tannins
	Botanical classification	Equisetum arvense	
	Part used	Sterile aerial stems	
Purity	Agricultural Grade		



Nettle extract


Insecticide, acaricide and Fungicide action

Nettle Extract or Nettle Macerate
(*Urtica dioica* e *Urtica urens*)

Nettle	10%
Formic Acid	0,01%
Calcium	1,4%
Silicion	0,42%

Nettle Extract provides plants with a high nutritional supply of chlorophyll, flavonoids, tannins, minerals (iron, sulfur, manganese, calcium, nitrogen, potassium), and carotenoids. It also provides natural hormones, which contribute to the vitality of the plant where the extract is applied.

It is permitted by the European Union as an insecticide, acaricide, and fungicide, for sprays or soil coverings (mulching). It is a formulation capable of controlling aphids and other insects, as well as significant fungal pathologies.



Soy Lecithin


Preventive and fungistatic action against pathogenic fungi

Fluid Soy Lecithin in Emulsion

Phosphatidylcholine	> 15 %
Total Phospholipids	> 95%

Soy Lecithin has a preventive and fungistatic action as it closes the main penetration pathways. Effectively controls pathologies such as: Scab, Apple Scab, Powdery Mildew, Peach Leaf Curl, Moniliasis, and Downy Mildew.

It strengthens and provides elasticity to the plant and fruit cell walls, preventing various physiological disorders such as: cracking, scalding, etc. When used near harvest, it gives fruits greater hardness, brightness, and color, enhancing their quality and organoleptic characteristics.



Sunflower Oil


Insecticide and fungistatic action against pathogens

Sunflower Oil

Oleic Acid	14 - 40 %
Linoleic Acid	48 - 74 %

Sunflower Oil reduces fungal growth and spore germination on treated surfaces. Additionally, it modifies and devitalizes the structure of the cell membrane. It has a fungistatic action that acts preventively by blocking the growth of pathogenic fungi.

SKL Sunflower Oil is highly refined and controls virus vector insects, pathogenic fungi, spider mites, and other fungal diseases. It is advisable to avoid treatments during the flowering period and in high temperatures.



Hydrogen peroxide

Bactericidal, sporicide and virucide action

Hydrogen peroxide

Cas No	7722-84-1
Purity	Water solution <5%
Structural formula	H ₂ O ₂


Hydrogen Peroxide has been used over the years as a universal, environmentally friendly, safe, and non-toxic disinfectant for people and the environment. It provides high effectiveness in controlling microorganisms in all possible applications, including air, water, surfaces, and soil. It is considered a powerful antibacterial, fungicide, virucide, amoebicide, and algacide.

It finds application as a disinfectant in the fields of agriculture, food industries, and beverages.

Basic Substances



	<h2>Talc</h2> <p>Insecticide and fungicide action</p> <table><tr><td>Talc</td><td></td></tr><tr><td>Cas No</td><td>14807-96-6</td></tr><tr><td>Chemical nomenclature</td><td>Hydrated magnesium silicate</td></tr></table>	Talc		Cas No	14807-96-6	Chemical nomenclature	Hydrated magnesium silicate	<p>Talc is a clay mineral composed of hydrated magnesium silicate with the chemical formula $Mg_3Si_4O_{10}(OH)_2$. Talc is used as a thickening and lubricating agent in ceramics, paints, and coatings, and is also a major component in cosmetic products. Inherently hydrophobic, talc particles form platelets due to its layered structure. Basal surfaces are hydrophobic, while marginal surfaces are hydrophilic. Sprayed on plants, it creates a physical barrier against insects and fungi, also providing effective protection against sunburn.</p>
Talc								
Cas No	14807-96-6							
Chemical nomenclature	Hydrated magnesium silicate							
	<h2>Sodium Bicarbonate</h2> <p>Fungistatic action against pathogens</p> <table><tr><td>Sodium bicarbonate</td><td></td></tr><tr><td>Purity</td><td>Food grade</td></tr><tr><td>Molecular formula</td><td>$NaHCO_3$</td></tr></table>	Sodium bicarbonate		Purity	Food grade	Molecular formula	$NaHCO_3$	<p>Sodium Bicarbonate, at room temperature, appears as a white crystalline powder, soluble in water and insoluble in alcohol. In an aqueous solution, when heated not beyond 100°C, it begins to decompose into Carbon Dioxide and Sodium Carbonate, resulting in a mild alkaline reaction.</p> <p>In agriculture, it is particularly suitable for treating fungal pathologies such as Downy Mildew, Powdery Mildew, and Gray Mold, which often affect fruits and vegetables, causing significant damage to crops.</p>
Sodium bicarbonate								
Purity	Food grade							
Molecular formula	$NaHCO_3$							
	<h2>Mustard pellets</h2> <p>Fungicide action for seed and soil treatments</p> <table><tr><td>Mustard seed powder</td><td></td></tr><tr><td>Obtained from Sinapis alba (Brassica alba), Brassica juncea and Brassica Nigra</td><td></td></tr></table>	Mustard seed powder		Obtained from Sinapis alba (Brassica alba), Brassica juncea and Brassica Nigra		<p>Field trials using Mustard Seed Meal Panels have demonstrated high efficacy against fungi, nematodes, click beetles, weeds, and other adversities.</p> <p>It can be applied directly to the soil as a substitute for methyl bromide fumigation.</p> <p>It controls the proliferation of fungi such as Wheat Bunt (<i>Tilletia caries</i> and <i>Tilletia foetida</i>) and can be dispersed in water for seed treatment before sowing (a single application is sufficient) from summer to autumn.</p>		
Mustard seed powder								
Obtained from Sinapis alba (Brassica alba), Brassica juncea and Brassica Nigra								
	<h2>Fructose</h2> <p>Elicitor stimulating natural defence mechanisms</p> <table><tr><td>Fructose</td><td></td></tr><tr><td>Minimun purity</td><td>Food grade</td></tr><tr><td>Molecula formula</td><td>$C_6H_{12}O_6$</td></tr></table>	Fructose		Minimun purity	Food grade	Molecula formula	$C_6H_{12}O_6$	<p>Fructose, authorized as a Basic Substance, is extracted from plants and commonly used in human nutrition; it can be employed in the control of lepidopterans such as the Codling Moth (<i>Cydia pomonella</i>).</p> <p>Fructose rapidly absorbs and slowly releases moisture compared to sucrose, glucose, or other sugars; it has a high absorption capacity even when the ambient humidity level is low. Thanks to this crucial activity, Fructose can help ensure a long shelf life of the fruits on which it is applied.</p>
Fructose								
Minimun purity	Food grade							
Molecula formula	$C_6H_{12}O_6$							




Whey Milk

Fungicide and virucide action

Whey Milk	
Cas No	92129-90-3
Purity	CODEX STAN 289:1995

Extensive research on **Whey Milk** has shown its effectiveness in:

- **Powdery Mildew control:** helps reduce the impact of Powdery Mildew on treated leaves on Cucumber, Zucchini and Grapevine.
- **Virucidal action:** disinfectant of cutting tools and work gloves. Acts on TMV, ToMV, PMMV, CGMMV, ToBRFV. The disinfectant action is useful for all crops. We recommend immersing cutting tools for 5 minutes and gloves for 5 seconds.



Calcium Hydroxide


Biological fungicide for tree crops

Calcium Hydroxide	
Cas No	1305-62-0
Molecular formula	Ca(OH) ₂
Purity	920 g/kg

Calcium Hydroxide, also known as slaked lime, Ca(OH)₂, is derived from the interaction between water and Calcium Oxide. When mixed with water, a small portion of it dissolves, forming a solution known as "limewater."

Hydrated lime is considered essential in Organic Agriculture for its effectiveness against pathogenic fungi such as *Neonectria galligena*.

It is used to increase soil pH as it reacts with acids and raises the pH.



Vinegar


Fungicide, bactericide and herbicide action

Vinegar	
Cas No	90132-02-8
Purity	Food grade
Acid Acetic content	Max 10%

Vinegar is a Basic Substance to be used in a cold-water solution for seed treatment (various crops) or as a disinfectant for mechanical equipment and cutting tools.

Vinegar finds important use as an herbicide on medicinal and aromatic crops, as well as in applications on pathways, sidewalks, and terraces.

It can be employed as a pH regulator to achieve water with pH <5, by adding 7 ml of vinegar per 1 L of water (in combination with chitosan).



Onion Bulb Extract

Fungicide action for Tomato, Potato and Cucumber

Onion bulb extract	
Dispersible concentrate from decoction	

The EU allows the use of **Onion Bulb Extract** for spraying according to the following indications:

- *Alternaria solani* in potatoes, growth stage BBCH 21-85, max. 5 treatments at intervals of 7 days, max. 0.5 kg of onion bulbs/ha;
- *Phytophthora infestans* in tomatoes, growth stage BBCH 21-75, max. 5 treatments at intervals of 3-4 days, max. 0.75 kg of onion bulbs/ha;
- *Botrytis cinerea* in cucumbers, growth stage BBCH 21-75, max. 5 treatments at intervals of 7 days, max. 0.75 kg of onion bulbs/ha.





Corroborants

Corroborants (enhancers of plant defenses) are substances of natural origin, different from fertilizers, mainly used in organic agriculture to:

- **improve** resistance of plants against harmful organisms;
- **protect** plants from damage not caused by pests. These products cannot be mixed together and are not subject to authorization for placing on the market.

They can only be placed on the market if:

- their use does not cause harmful effects either immediate or delayed, on human or animal health or on the environment;
- they are registered in a corroborant list drawn up and periodically updated by the Ministry of Agriculture, Food and Forestry Policies;
- the label shows the indications concerning the qualitative and quantitative composition, the methods and directions for use, the identification of the person responsible for the placing on the market, the production and packaging plant, as well as the intended use which, it must not be referred to the definition of a phytosanitary product.

SUMMARY

OKYZEOL (Zeolite 4-5 µm)

OKYBENT (Bentonite 325mesh)

OKYCAO (Caolin 2-3 µm)

SILICOL (Diatomaceous Earth)

OKYGEL 99 S (Silica Gel)

LECINOL 90 (Soy lecithin)

TANNISOL PB (Chestnut tannin)

TANNISOL L (Chestnut tannin)

OKYNOL SM (Potassic Soap)

OKY GOLD (Special Soap)

PROPOLIS C PLUS

PROPOLIS

SUNFLOWER OIL

SOY OIL

COCONUT PALM OIL

SENAPOIL (Mustard Oil)

VITAMIC C

VITAMIN C PLUS

SODIUM BICARBONATE

GLYCOLIC EXTRACT OF FLAVONOIDS

Corroborants



Okyzeol 4-5 µm

Zeolite powder
Fungistatic action
local humidity control

Silicon oxide (SiO ₂)	62.87
Aluminium oxide (Al ₂ O ₃)	13.46
Potassium oxide (K ₂ O)	2.38
Iron oxide (Fe ₂ O ₃)	1.35

Okyzeol is composed of Zeolite (cabasite); in agriculture and floriculture, it essentially works as a sponge, covering the leaf surface with a thin and uniform layer of powder.

Okyzeol allows:

- Absorb reversibly great amount of waterx.
- Inhibiting spores and hyphae present on the surface of plants and fruits.
- Absorbing toxic substances present on the plant and fruits.



Okybent 325 mesh

Bentonite powder
Fungistatic action
local humidity control

Silicon oxide (SiO ₂)	65-78
Aluminium oxide (Al ₂ O ₃)	13.5-15
Potassium oxide (K ₂ O)	1.3-2.4
Iron oxide (Fe ₂ O ₃)	1.0-3.3

In the imbibition process, **Okybent** turns into a gel with a volume gain of 16 times; thus, the primary characteristic of Okybent is its ability to absorb water and swell like a sponge:

- It absorbs large amounts of water: Okybent's hydro-retentive power drastically reduces problems arising from excessive moisture.
- It heals the microlesions present on fruits, which would otherwise easily lead to fungal infections.
- It absorbs pesticides, nitrosamines, mycotoxins, and other toxic substances present on leaves and fruits.



Okycao 2-3 µm

Caolin powder
Repellent action against Diptera,
regulation of plant temperature

Silicon oxide (SiO ₂)	52.82
Aluminium oxide (Al ₂ O ₃)	46.02
Potassium oxide (K ₂ O)	0.16
Iron oxide (Fe ₂ O ₃)	0.35

Okycao performs several beneficial functions:

- It lowers the plant's temperature and enhances photosynthesis.
- It reflects infrared rays.
- It increases the daytime assimilation rate of carbon dioxide.
- It limits the development of various pathogenic insects such as the Olive Fruit Fly, Vine Leafhopper, Thripidae, Walnut Husk Fly, Fruit Fly, and Pear Psylla. It hinders the deposition of eggs on treated surfaces.



Silicol

Diatomaceous Earth
Insectide and fungicide action


Kieselgur (Diatomaceous earth)	
Silicon dioxide (SiO ₂)	80%
Aluminium oxide (Al ₂ O ₃)	4%
Iron oxide (Fe ₂ O ₃)	1.5%


Silicol is used as a natural insecticide due to its abrasive property: it effectively cuts through the protective coating of insects and, upon penetration, injures their internal parts, dehydrating them rapidly and causing their demise. The effect of Silicol does not dissipate over time and has a long persistence: it remains active until it is removed from the vegetation.


Silicol can also be applied to the surfaces of empty mills and silos or added to cereals (prior to storage) for its hygroscopic ability, allowing for localized moisture control.


Corroborants



	<h2 style="text-align: center;">Okugel 99 S</h2> <p style="text-align: center;">Silica Gel 200 nm Desiccant fungal and bacterial inhibitory action</p> <hr/> <p>Amorphous silicon dioxide (SiO₂)</p> <p>Product obtained by the treatment of amorphous silicates, quartz sand, diatomaceous earths and similar</p>	<p>Okugel 99 S is an excellent desiccant and is thus used for localized moisture control on vegetation. Despite being termed a desiccant, the chemical-physical process by which water vapor is removed from the environment involves an adsorption operation: water vapor molecules bind not only on the external surface but also internally.</p> <p>Okugel 99 S exhibits remarkable porosity, resulting in a larger total area available for material exchange: 1000g of the product can absorb 4 - 5000 ml of water.</p>
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	<h2 style="text-align: center;">Lecinol 90</h2> <p style="text-align: center;">Soy Lecithin Fungistatic action Emulsifying and wetting action</p> <hr/> <p>Fluid Soy Lecithin in emulsion</p> <table border="1"> <tr> <td>Total Phospholipids</td> <td>> 95%</td> </tr> <tr> <td>Phosphatidylcholine</td> <td>> 15%</td> </tr> </table> <p>Natural product originated from soybean extraction, exclusively with physical processes</p>	Total Phospholipids	> 95%	Phosphatidylcholine	> 15%	<p>Lecinol 90 enhances the resistance of plants and fruits against numerous physiological disorders. Following treatments, the fruits are more compact, bright, and colorful, improving their organoleptic qualities.</p> <p>Moreover, Lecinol 90 activates the plant's natural defenses against fungal pathologies such as Powdery Mildew, Peach Leaf Curl, Downy Mildew, and Alternaria.</p> <p>Due to its emulsifying properties, Lecinol 90 is also an excellent wetting agent.</p>
Total Phospholipids	> 95%					
Phosphatidylcholine	> 15%					


	<h2 style="text-align: center;">Tannisol PB</h2> <p style="text-align: center;">Chestnut Tannin Repellent action against Nematodes and Pests</p> <hr/> <table border="1"> <tr> <td>Total Polyphenolic substances</td> <td>Min 96%</td> </tr> <tr> <td>Dry matter</td> <td>99%</td> </tr> <tr> <td>pH (10% sol.)</td> <td>4%</td> </tr> <tr> <td>Tannin Content</td> <td>75%</td> </tr> </table>	Total Polyphenolic substances	Min 96%	Dry matter	99%	pH (10% sol.)	4%	Tannin Content	75%	<p>Chestnut Tannin is a polyphenolic molecule whose properties stimulate the growth and development of the plant's root system, along with beneficial soil microflora, while limiting the proliferation of pathogens.</p> <p>Due to its acidic pH, it creates an inhospitable environment for Nematodes.</p> <p>Tannisol PB has also an effective anti-feed action against parasites, as it reduces food digestibility or makes it repellent by affecting taste (astringency) and tissue hardness.</p>
Total Polyphenolic substances	Min 96%									
Dry matter	99%									
pH (10% sol.)	4%									
Tannin Content	75%									

	<h2 style="text-align: center;">Tannisol L</h2> <p style="text-align: center;">Chestnut Tannin Repellent action against Nematodes and Pests</p> <hr/> <table border="1"> <tr> <td>Total Polyphenolic substances</td> <td>Min 48% su S.S.</td> </tr> <tr> <td>Dry matter</td> <td>40%</td> </tr> <tr> <td>pH (10% sol.)</td> <td>4%</td> </tr> <tr> <td>Tannin Content</td> <td>34%</td> </tr> </table>	Total Polyphenolic substances	Min 48% su S.S.	Dry matter	40%	pH (10% sol.)	4%	Tannin Content	34%	<p>Chestnut Tannin is a polyphenolic molecule whose properties stimulate the growth and development of the plant's root system, along with beneficial soil microflora, while limiting the proliferation of pathogens.</p> <p>Due to its acidic pH, it creates an inhospitable environment for Nematodes.</p> <p>Tannisol L has also an effective anti-feed action against parasites, as it reduces food digestibility or makes it repellent by affecting taste (astringency) and tissue hardness.</p>
Total Polyphenolic substances	Min 48% su S.S.									
Dry matter	40%									
pH (10% sol.)	4%									
Tannin Content	34%									

Corroborants



	<h2>Okynol SM</h2> <p>Soft Marseille soap Wetting and tackifier agent, anti aphid action</p> <hr/> <p>Potassium salts of fatty acids</p> <hr/> <p>Obtained from the saponification of vegetable oils</p>	<p>Okynol SM, in combination with insecticides, functions as a wetting and sticking agent, allowing for the even distribution of the active ingredient within the mixture to be applied.</p> <p>At a concentration of 2-3%, Okynol SM indirectly acts against Sooty Mold, as it dissolves the honeydew produced by insects, also proving to be an efficient and cost-effective aphid control solution.</p> <p>Okynol SM can be useful in controlling Whiteflies, Cabbage Aphids, and especially Scale Insects.</p>						
	<h2>Oky Gold</h2> <p>Wetting and tackifier agent Enhancer of plants natural defences</p> <hr/> <p>Saponified fatty acids (C10 - C18)</p> <hr/> <p>Enhancement of plant defenses</p>	<p>Oky Gold is the result of a chemical reaction between hydroxide and specific vegetable-derived fatty acids, which are the main constituents of this product.</p> <p>Like other soaps, Oky Gold is a surfactant, meaning it has the ability to solubilize non-polar organic substances, such as fats, in water. This property finds application in agriculture as an adjuvant in crop protection: it promotes the uniform diffusion of active ingredients within the mixtures to be distributed and a more comprehensive coverage of the treated vegetation.</p>						
	<h2>Propolis C plus</h2> <p>Healing action, activating and attractive</p> <hr/> <table><tr><td>Propolis</td><td></td></tr><tr><td>Propolis extract in hydroalcoholic solution</td><td>5%</td></tr><tr><td>Content in flavonoids</td><td>25 g/lit</td></tr></table>	Propolis		Propolis extract in hydroalcoholic solution	5%	Content in flavonoids	25 g/lit	<p>Propolis C+ possesses important properties:</p> <ul style="list-style-type: none">• Healing: It promotes the rapid healing of wounds from traumas and pruning.• Activating: The fraction of flavonoid compounds activates essential metabolic functions.• Phytoprotective: The natural components contained in the product Propolis C+ activate and reinforce the plant's immune systems.• Attractive action: Towards bees, promoting pollination.
Propolis								
Propolis extract in hydroalcoholic solution	5%							
Content in flavonoids	25 g/lit							
	<h2>Propolis</h2> <p>Propolis Healing action, activating and attractive</p> <hr/> <table><tr><td>Propolis</td><td></td></tr><tr><td>Propolis extract in hydroalcoholic solution</td><td>5%</td></tr><tr><td>Content in flavonoids</td><td>25 g/lit</td></tr></table>	Propolis		Propolis extract in hydroalcoholic solution	5%	Content in flavonoids	25 g/lit	<p>Propolis facilitates swift healing of wounds resulting from traumas or pruning, while shielding the plant from pathogen infiltration; it fosters pollination by attracting bees, enhances post-harvest fruit preservation, and diminishes the formation of rot.</p> <ul style="list-style-type: none">• Healing agent: expedites rapid recovery from traumas and pruning wounds.• Activating action: stimulates vital metabolic functions such as respiration.• Attractive effect: towards bees, promoting pollination. <p>Applied pre-harvest, it augments fruit's shelf life.</p>
Propolis								
Propolis extract in hydroalcoholic solution	5%							
Content in flavonoids	25 g/lit							




Sunflower Oil

**Activator
of plant defense mechanisms**

Sunflower Oil	
Oleic Acid	10 - 40%
Linoleic Acid	48 - 74%

Sunflower Oil enhances the diffusion, penetration, and adhesion of combined products. It increases the plant's physiological processes, making them more efficient, leading to better results in the field.

When applied to the upper surface of leaves, it inhibits the germination of fungal conidia and the development of the pathogen's mycelium. Sunflower oil reduces fungal growth and spore germination on treated surfaces. It has a fungistatic action that works preventively by blocking the growth of pathogenic fungi.



Soy Oil


**Activator
of plant defense mechanisms**

Soy Oil	
Oleic Acid	15 - 30%
Linoleic Acid	50 - 60%
Linolenic Acid	5 - 12%
Palmitic Acid	10 - 15%

Soybean Oil is regularly used as an adjuvant, both in mixtures containing copper compounds and in combination with insecticides.

This use allows for an increase in the average size of sprayed droplets, delaying their evaporation, and broadening the contact surface with the target.

In this way, the spray liquid's drift effect is reduced, and losses due to evaporation during product distribution are minimized.




Coconut Palm Oil

**Improve diffusion
penetration and adhesion
of plant protection products**

Saturated Palmitic C16	43.5%
Monounsaturated oleic C18:1	36.6%
Polyunsaturated linoleic C18:2	9.1%
Saturated stearic C18	4.3%
Saturated myristic C14	1.0%

Coconut Palm Oil is a rich source of various triglycerides of fatty acids, with a predominance of saturated fatty acids, including lauric acid (45%), myristic acid (20%), and palmitic acid (7%).

It enhances plant defense mechanisms and their resistance both against harmful organisms and non-parasitic damages. The content of polyunsaturated fatty acids in Coconut Palm Oil activates plant defense mechanisms, aimed at resistance to biotic and abiotic stresses, interfering with the physiology of plant-harmful organism interactions.



Senapoil

Mustard Oil
Phytoprotective, Phytostimulant
effect for all the crops

Mustard Oil	95%
Density	1010 kg/m ³
pH	circa 10
Obtained from the cold pressing of mustard seeds (<i>Sinapis alba</i>)	

Senapoil has a phytoprotective and phyto-stimulating action on all crops, serving as an eco-friendly alternative to synthetic products. It is a source of vitamins B, C, E, K, proteins, and minerals; the seeds contain phytoprotective substances such as sinapine (alkaloid), sinigrin (glucosinolate), and allyl isothiocyanate.

- Being 100% natural, it exhibits a pronounced fungistatic action.
- It respects the environment, the operator, and the consumer, and does not lead to resistance phenomena.

Corroborants



Vitamin C

Ascorbic Acid
**Phytostimulant action
and antioxidant**

L-Ascorbic Acid	50%
Coformulants q.b.	g 100
White crystalline powder	
Product deriving from the fermentation of sorbitol of vegetal origin	

Ascorbic acid is **Vitamin C**: it belongs to the group of so-called water-soluble vitamins, which cannot be stored in living organisms, but must be regularly taken in through nutrition. Ascorbic acid has a high antioxidant power that helps protect polyunsaturated fats from oxidation.

It aids in maintaining plant health by participating in the synthesis of many metabolic reactions and the biosynthesis of amino acids and hormones. It boosts the immune system's defenses and helps the plant prevent the risk of infections.



Vitamin C Plus

Ascorbic Acid + Chitosan
**Phytostimulant action
and antioxidant**

Ascorbic Acid	10%
Chitosan hydrochloride 99%	5%
Solid content	> 6%
pH	1.4 - 1.6

Chitosan present in **Vitamin C Plus** is activated through a patented process that increases its positive charge and contact surface, consequently amplifying its bioprotective and fungistatic strength.

Applied both foliarly and for seed treatment, it has been demonstrated that Vitamin C Plus induces a series of beneficial responses in crops, including:

- Direct antibiosis against parasites and pathogens.
- Stimulates plant defenses.
- Regulates plant growth.



Sodium Bicarbonate

**Activator
of plant defense mechanisms**

Sodium Bicarbonate	
Purity	Food grade
Chemical formula	NaHCO_3

Sodium bicarbonate plays an important role in enhancing plant defenses against environmental challenges and stresses caused by external factors. Its targeted application can help increase the robustness of plants, making them more resistant to attacks from harmful organisms and adverse weather conditions.

Sodium bicarbonate is an integral part of many sustainable crop management strategies, helping farmers protect and improve plant health in an eco-friendly manner.



Glycolic extract

**Improves the processes of
photosynthesis**
germination and rooting

Total Polyphenols	25 gr/kg
Total Phenols	3000 gr/kg
Acetic acid	2.2%
Emulsifying Agent: Non-GMO lecithin <3%	

Flavonoid-based glycolic extract can enhance the activity of biological mechanisms of resistance to biotic and abiotic stress factors, with benefits for increasing productivity and quality of crops.

The Glycolic Extract of Flavonoids exhibits high physiological activity on the plant, improves photosynthesis and growth processes, increases germination rate and rooting, thus enhancing product quality.







Bioprotek Line

Bioprotek products are mineral preparations based on macroelements such as: Nitrogen, Phosphorus, Potassium, in high purity and quality stable composition, formulated individually or in mixture with each other, sometimes with the addition of microelements (such as: Boron, Manganese, Molybdenum, Copper, Zinc, etc.) Main part of these product are made of Phosphonates and Peroxides, known for their systemic activity.

Bioprotek products can be used on all crops (tree, herbaceous, floricultural and industrial) from the stage of vegetative awakening or sowing / transplanting until harvesting; they must be used mainly by foliar application, or, where prescribed, in fertigation with a radical action; thanks to their properties they allow a healthy and harmonious development of the vegetation.

The effects of **Bioprotek** products are noticeable in the development, in the flowering and they enhance a greater resistance of plants to diseases; they also perform an important role in restoring plants health, exalting and preserving it if the plant is already in a good vegetative-productive state.

Bioprotek products are necessary for photosynthesis, Nitrogen metabolism and the formation of compounds involved in plant metabolism.

SUMMARY

BIO WAKE 810 (NP - PAA)

BIO WAKE Zn (Zn - PAA)

BIOPROTEK BLU (N - P_2O_5)

BIOPROTEK DUO (Cu - P_2O_5)

BIOPROTEK VERDE (N - P_2O_5 - K)

BIOPROTEK GIALLO (P_2O_5 - K)

BIOPROTEK AK 47 (CH_3CO_2K)

BIOPROTEK ROSSO (K - SiO_2)

BIOPROTEK OLIVO (N - P_2O_5)

BIOPROTEK ACTIVE (N - PAA)

Bioprotek Line



Bio Wake 810

NP 8-10 fertilizer solution
Dormancy breaker

Total (N) Nitrogen	8%
Ureic (N) Nitrogen	8%
Phosphorus pentoxide (P ₂ O ₅)	10%

Bio Wake 810 is quickly absorbed to enter the lymphatic system, and thanks to its versatile matrix, it ensures a harmonious and healthy development of vegetation.

The simultaneous initiation and uniform growth during the very early stages of development enable a homogeneous flowering, the first step towards a concentrated harvest by degree of ripeness, characterized by high quality standards. In the treatment with Bio Wake 810, the harvesting period is advanced by 7 to 15 days (depending on the seasonal trend, the number of treatments, and the doses used).



Bio Wake Zn

Zinc based fertilizer solution
Dormancy breaker
Allowed in Organic Agriculture

Zinc	2%
------	----

Bio Wake Zn is quickly absorbed to enter the lymphatic system, and thanks to its versatile matrix, it ensures a harmonious and healthy development of vegetation.

The simultaneous initiation and uniform growth during the very early stages of development enable a homogeneous flowering, the first step towards a concentrated harvest by degree of ripeness, characterized by high quality standards. In the treatment with Bio Wake 810, the harvesting period is advanced by 7 to 15 days (depending on the seasonal trend, the number of treatments, and the doses used).



Bioprotek Blu

Fertilizer solution
NP 20-30

Total (N) Nitrogen	20%
Ureic (N) Nitrogen	20%
Phosphorus pentoxide (P ₂ O ₅)	30%

Bioprotek Blu is an NP synthetic fertilizer, to be used in integrated agriculture for all crops, as a source of Nitrogen and Phosphorus (Phosphite), for foliar and/or root application.

Thanks to its versatile matrix, it ensures a healthy and harmonious development of vegetation. Bioprotek Blu is an efficient, active, and concentrated source of Nitrogen and Phosphorus (Phosphite), which is quickly absorbed through foliar and/or root pathways, entering the lymphatic system and transported both acropetally and basipetally, thus in both xylem and phloem.



Bioprotek Rosso

Potassium Salt solution
K10

Salt Potassium solution (K ₂ O)	10%
Manganese oxide (Mn)	1.4%

Bioprotek Rosso is a product based on stable Potassium silicate and Manganese, to be used in Integrated Agriculture for all tree and flower crops, from the vegetative awakening phase to harvest.

As a source of Potassium and Manganese nutrients, the product should be used for foliar application, where, thanks to its versatile matrix, it ensures a harmonious and healthy development of vegetation. It helps to control various pests, enhancing plant defense mechanisms, thanks also to the organic matter oxidation process.



Bioprotek Verde

Fertilizer solution
NPK 10 - 35 - 10

Total (N) Nitrogen	10%
Ureic (N) Nitrogen	10%
Phosphorus pentoxide (P ₂ O ₅)	35%
Potassium oxide (K ₂ O) soluble in water	10%

Bioprotek Verde is a synthetic NPK fertilizer, to be used in integrated agriculture for all crops, as a source of Nitrogen, Phosphorus (Phosphite), and Potassium, for foliar and/or root application.

Thanks to its versatile matrix, it ensures a healthy and harmonious development of vegetation. Bioprotek Verde is an efficient, active, and concentrated source of Nitrogen, Phosphorus (Phosphite), and Potassium, which is quickly absorbed through foliar and/or root pathways, entering the lymphatic system and transported both acropetally and basipetally, thus in both xylem and phloem.



Bioprotek Giallo

Fertilizer solution
PK 30 - 20

Phosphorus pentoxide (P ₂ O ₅) soluble in water	30%
Potassium oxide (K ₂ O) soluble in water	20%

Bioprotek Giallo is an efficient, active, and concentrated source of Phosphorus (Phosphite) and Potassium, which is quickly absorbed through foliar and/or root pathways.

The activity of Bioprotek Giallo on the plant is primarily manifested in two ways: it acts directly by influencing its phosphoric metabolism and then interferes with the plant's defense and reaction mechanisms (Systemic Induced Resistance - SIR) against pathogens (fungi and bacteria), both endogenous and exogenous, through the formation of phytoalexins (Terpenes, Aromatic phenols, etc.).



Bioprotek Duo

Fertilizer Solution
NP 8-20 with Copper (Cu)

Total (N) Nitrogen	8%
Ureic (N) Nitrogen	8%
Phosphorus pentoxide (P ₂ O ₅)	20%
Copper (Cu) soluble in water	5%

Bioprotek Duo is a product based on stable copper phosphite solution: it can be quickly absorbed and translocated within the tissues due to its excellent high systemic characteristics.

Copper, present in an ionic form, also participates in protein biosynthesis and serves as an excellent deterrent for fungal or bacterial adversities. The presence of phosphorus and copper, formulated in combination, achieves maximum efficiency and is capable of ensuring high and balanced nutritional inputs, as well as restoring the perfect health status of the crops to which it is administered.



Bioprotek Active

Fertilizer solution
NP 10

Total (N) Nitrogen	10%
Ureic (N) Nitrogen	10%

Bioprotek Active also acts as an activator of the plants' natural defenses and stimulates the production of phytoalexins, thereby increasing the plants' ability to resist fungal and bacterial attacks, including Phytophthora, Plasmopora viticola, Pseudoperonospora cubensis, Bremia, and others. Additionally, it prevents and controls bacterial infections caused by organisms such as Pseudomonas PS and Erwinia.

Bioprotek Active represents a synthetic nitrogenous fertilizer that can be utilized as a source of urea nitrogen for a wide range of plants.





Biostimulants

The definition of Biostimulants has been provided precisely by EBIC (European Biostimulants Industry Council):

“Biostimulants contain substances or microorganisms whose function, when applied to plants or the rhizosphere, is to stimulate natural processes to enhance or benefit nutrient uptake, tolerance to abiotic stress, and crop quality.”

Biostimulants are substances typically extracted from plants or microorganisms that are used in agriculture and act on natural physiological processes, helping the plant to “perform better.”

Biostimulants do not actively counteract the attacks of pathogens or phytophagous insects. They make the plant more resilient to abiotic stresses such as heat, cold, or water deficiency, increase nutrient absorption efficiency, and improve crop quality.

SUMMARY

EXTR

EXTR 500 SC

BIORMON Zn 400

EXTR 99 WP

GLYCINBETA


OKYKELP

BIOPLUS

Biostimulants



	<div>Extr</div> <div>Nitrogenous organomineral fertilizer Fluid marine algae</div> <table><tr><td>Total (N) Nitrogen</td><td>8%</td></tr><tr><td>Organic (N) Nitrogen</td><td>0.5%</td></tr><tr><td>Ureic (N) Nitrogen</td><td>7.5%</td></tr><tr><td>Organic (C) carbon</td><td>8%</td></tr></table>	Total (N) Nitrogen	8%	Organic (N) Nitrogen	0.5%	Ureic (N) Nitrogen	7.5%	Organic (C) carbon	8%	<div>Extr is a concentrated extract of organic substances derived from marine algae of the Sargassum, Ascophyllum nodosum, and laminaria genera, containing high concentrations of natural plant hormones, traces of minerals, carbohydrates, etc.</div> <div>Extr promotes and stimulates plant growth, enhances the plant's natural defense mechanisms, supports vegetative recovery, encourages rapid leaf growth, induces abundant flowering, and increases productive yield in both quality and quantity.</div>		
Total (N) Nitrogen	8%											
Organic (N) Nitrogen	0.5%											
Ureic (N) Nitrogen	7.5%											
Organic (C) carbon	8%											
	<div>Extr 500 SC</div> <div>Product with specific action Fluid organic extract Fresh seaweed</div> <table><tr><td>Biological Organic (C) Carbon</td><td>2%</td></tr><tr><td>Mannitol</td><td>7.2%</td></tr></table>	Biological Organic (C) Carbon	2%	Mannitol	7.2%	<div>Extr 500 sc is a fluid organic extract of 100% fresh Ascophyllum nodosum seaweed, obtained through "cold" extraction processes to preserve the valuable substances that the product is particularly rich in (vitamins, minerals, complex sugars, natural hormonal substances, cytokinins, auxins).</div> <div>Extr 500 SC represents an important energy source for plants. The high quality of the product enables treated crops to increase productivity, vegetative development, and enhance resistance to environmental stress.</div>						
Biological Organic (C) Carbon	2%											
Mannitol	7.2%											
	<div>Biormon Zn 400</div> <div>Fertilizer solution Zinc (sulphate)</div> <table><tr><td>Zinc (Zn) soluble in water</td><td>2% w/w</td></tr><tr><td>Raw materials: Zinc salt (sulphate)</td><td></td></tr></table>	Zinc (Zn) soluble in water	2% w/w	Raw materials: Zinc salt (sulphate)		<div>Biormon Zn 400 is a synthetic fertilizer based on Zinc, to be used on all tree, herbaceous, and flower crops, both for foliar application and root bathing, for the healthy and optimal development of shoots, flowers, leaves, and fruits.</div> <div>Biormon Zn 400 contains a balanced mixture of Zinc and Alpha Hydroxy Acids with strong fortifying and phytoprotective activity, to which specific adjuvants are added to allow better wetting of the sprayed surfaces.</div>						
Zinc (Zn) soluble in water	2% w/w											
Raw materials: Zinc salt (sulphate)												
	<div>Extr 99 wp</div> <div>Nitrogenous organic fertilizer Algae extract in solid form</div> <table><tr><td>Potassium Oxide (K₂O)</td><td>19%</td></tr><tr><td>Organic (N) Nitrogen</td><td>5%</td></tr><tr><td>Betaine</td><td>0.1%</td></tr><tr><td>Mannitol</td><td>4%</td></tr><tr><td>Organic (C) Carbon</td><td>58%</td></tr></table>	Potassium Oxide (K ₂ O)	19%	Organic (N) Nitrogen	5%	Betaine	0.1%	Mannitol	4%	Organic (C) Carbon	58%	<div>Extr 99 wp is a concentrated extract of marine algae of the genus Sargassum, Ascophyllum nodosum and laminaria, in 100% soluble powder, containing high concentrations of: natural plant hormones, traces of minerals, carbohydrates, etc.</div> <div>Extr 99 wp is an exclusive formulation preparation with an anti-stress function. The components present in it, including: Betaines, Amino acids, Alginic Acid, Mannitol, Auxins, Cytokinins, Gibberellins and more, enhance cellular metabolism and positively influence the activity of important enzymatic complexes.</div>
Potassium Oxide (K ₂ O)	19%											
Organic (N) Nitrogen	5%											
Betaine	0.1%											
Mannitol	4%											
Organic (C) Carbon	58%											




Glycinbeta

Antistress
per applicazioni fogliari

Organic (N) Nitrogen	6%
Organic (C) carbon	18%
Organic Matter of Plant Origin	35.4%
Trimethylglycine	> 30%

Glycinbeta is a liquid fertilizer entirely of plant origin. The solution rich in natural substances provides high quantities of Trimethylglycine (over 30%), a molecule with osmo-protective action that the plant naturally accumulates in response to environmental stress such as high and low temperatures (thermal stress) and high salinity (salt stress).

Trimethylglycine preserves cellular functions by binding to cell membranes and enzymes, maintaining the ability to carry out metabolic functions.




Okykelp

Algae extract
Ecklonia Maxima

Okykelp is a natural biostimulant that contains - in addition to carbohydrates, proteins, amino acids, vitamins - precious natural plant growth regulators with an ideal ratio between auxins and cytokinins (360:1)

Thanks to the cold extraction process, the active substances of the extract are present within **Okykelp** without having undergone any qualitative alterations or changes in their ratios, making the product unique in its kind. In the extract of Ecklonia maxima, natural plant growth regulators capable of stimulating the plants' own natural defense systems against environmental factors such as cold and drought are found.

This, together with the optimal ratio between auxins and cytokinins, effectively stimulates the growth of plant tissues.




Huminal Combi

Umic Extract of
Leonardite

Organic Matter	11%
Organic Matter on dry matter	62,5%
Humified Organic Matter on % on Organic Matter	62,5%
Organic Nitrogen on dry matter	0,6%
Ratio C/N	52

Humic and Fulvic Acids are organic molecules that, owing to their nature and structure, have the capacity to chelate large amounts of nutrients, thereby promoting their absorption and translocation within plant tissues, consequently fostering cell division and expansion.

Huminal Combi enhances the physicochemical characteristics of cultivated soil, boosts the development of the root system in crops, and increases the utilization of nutrients within the soil (chelating power). It is compatible with a wide variety of natural extracts and microelements.



Fulvinal Combi

Specific action product
Fulvic Acid

Organic Matter	45-48% w/w
Fulvic Acid	35-40% w/w
Dry Matter	67-72% w/w
Total (N) Nitrogen	1,5-2,5% w/w
Organic (N) Nitrogen	1,5-2,5% w/w
Potassium Oxide (K ₂ O)	3,5-4% w/w

Fulvinal Combi serves as an excellent carrier for foliar fertilization. When applied to leaves, it also boosts chlorophyll production, thereby enhancing oxygen absorption. Fulvinal Combi functions as both an amendment and a powerful stimulant for soil microbial activity.

This high-quality biostimulant and NPK coater is capable of chelating major nutrients (N, P, K, Mg, Ca, etc.) with which it is associated. Moreover, it is compatible with a wide variety of natural extracts and microelements.



FYTOL
ESSENTIAL OIL EXTRACTS

MENTOL
Mint oil



SKL
CROPS WELLNESS



Essential Oils and Natural extracts

Essential Oils and Natural Extracts are products obtained by extraction from aromatic plant material, i.e. rich in "essences" and phyto-protective and phyto-stimulating substances which are produced by plants for multiple reasons, including performing an allelopathic, antibiotic, repellent.

The most interesting essential oils from an agronomic point of view are: Mint, Garlic, Scots Pine, Lavender, Lemongrass, Eucalyptol, Eugenol, Thymol, Geraniol, Rosemary, Oregano, Orange, Lemon, Grapefruit.

The most interesting plant extracts from an agronomic point of view are: Garlic Extract, Nettle Extract, Tobacco, Horsetail, Oregano, Rosemary, etc.

A few drops of Garlic and Citrus Essential Oil in treatments are effective both for cryptogamic diseases and against attacks by insects. The Essential Oils of Pinolene, Eucalyptol, Mint, Citronella are excellent insecticides and stimulate the plant's defenses.

All the essential oils and plant extracts selected in this category represent the maximum expression of the research and innovation of the SKL laboratories in green chemistry and in the biosynthesis of natural substances and raw materials from renewable sources.

SUMMARY

ESSENTIAL OILS

NATURAL EXTRACTS

Essential Oils

Formulation Natural or Nanotech



Agrumol

Essential Oil
Mixed citrus fruits



Allyol

Essential Oil
Garlic



Aramol

Essential Oil
Cloves



Cannol

Essential Oil
Cinnamon



Citrinol

Essential Oil
Lemongrass



Cuminol

Essential Oil
Cumin



Eucaliptol

Essential Oil
Eucalyptus



Eugenol

Essential Oil
Eugenol



Essential Oils



Formulation Natural o Nanotech

Essential Oils



Greenol

Essential Oil
Wintergreen



Lemonol

Essential Oil
Lemon



Mentol

Essential Oil
Mint



Orangenol

Essential Oil
Sweet Orange



Origanol

Essential Oil
Origan



Pinol

Essential Oil
Pinolene



Sallioli

Essential Oil
Garlic + Wintergreen



Timol

Essential Oil
Thyme



Our Natural Extracts



Garlic Extract

Natural extract based on **Garlic bulbs**

The **Natural Extract from Garlic Bulbs** is an interesting biological remedy against gall-forming Nematodes, especially for Solanaceae, Carrots, Lettuces, and Cucurbits. The Garlic Extract contains numerous sulfur compounds that act on contact, especially on the young forms of Nematodes, that is Eggs and Larvae.



Tancy Extract

Natural extract based on **Tanacetum vulgare**

Tancy Extract a novel formulation in Agriculture, is renowned for its intriguing insecticidal and fungicidal properties, making it a valuable asset in crop protection. In the past, it was employed to repel flies and ants from homes, showcasing its versatility in pest management. Presently, it has gained widespread recognition in pharmacology due to its numerous advantageous effects on human health.



Pyrethrum Extract

Natural extract based on **Pyrethrum**

Pyrethrum extract is perhaps one of the most widely recognized formulations in Agriculture, widely employed, particularly in Organic Farming, for its potent insecticidal properties. Derived from the Chrysanthemum plant, it effectively targets and controls pests such as Aphids, Thrips, Moths, and Flies, ensuring the protection and health of crops.



Mugwort Extract

Natural extract based on **Mugwort**

Mugwort Extract derived from Artemisia absinthium, contains a crucial substance, Artemisinin, whose discovery played a vital role in the battle against and control of Malaria. Alongside its historical significance, Mugwort Extract is renowned for its stimulant properties, invigorating and activating the vascular system, and its strong antiseptic qualities, preventing or slowing down microbial growth.

Our Natural Extracts



Tobacco Extract

Natural extract based on **Tobacco leaves**

Tobacco Extract is well known for its potent insecticidal properties, attributed to the presence of the characteristic alkaloid found in Tobacco leaves: Nicotine. This significant chemical compound acts as a powerful repellent against major insect pests in our agricultural crops, effectively warding off nuisances such as Aphids and Mites and safeguarding the health of the harvest.



Oregano Extract

Natural extract based on **Oregano**

Beyond being a highly significant spice in the Mediterranean region, **Oregano** boasts essential pharmacological properties. In the field of agriculture, it is effectively utilized for controlling Citrus Mealybugs, both by applying it as a brush-on paste on the trunks and through foliar applications, safeguarding citrus trees and ensuring healthy yields.



Inula viscosa Extract

Natural extract based on **Inula viscosa**

Inula viscosa extract is rich in nutrients, including flavonoids, tannins, saponins, essential oils, organic acids, vitamins, and minerals.

The healing properties of Inula viscosa are primarily associated with its flavonoid content, which has demonstrated antioxidant, anti-inflammatory, antispasmodic, antidiabetic, antifungal, and antiviral effects.



Rosemary Extract

Natural extract based on **Rosemary**

Rosemary Extract is an effective natural repellent against various insect pests in our agricultural crops. The unique chemical compounds found in this extract, such as eucalyptol, camphor, alpha-pinene, beta-pinene, and cineole, not only deter potential attacks but also hinder oviposition on the treated plants, thereby safeguarding the crops from infestations.





Copper based

Copper is a micro-nutrient necessary for plants and animals health. Copper deficiency in the soil decreases yields and crop quality.

Rice and Wheat, are very sensitive to copper deficiency as also Citrus, Oat, Spinach, Carrot, etc.

Copper is involved in different enzymatic systems where it cannot be replaced by any other metal ion.

It is essential for the synthesis of Carbohydrates and Nitrogen, it is involved in the formation of the cell walls, in the transport of electrons and in oxidation reactions.

Copper deficiency symptoms occur with desiccation of younger leaves; stems, branches and twigs are less strong, small leaves with brown spots and delayed growth

SUMMARY

COPPER SULPHATE (CuSO_4)

OKYPOL 20 WP (Bordeaux Mix.)

OKYRAM 50 WDG (Copper Oxych.)

OKYRAM 50 WP (Copper Oxych.)

ECOPPER BLU (Copper Hydro.)

ECOPPER VERDE ($\text{Cu SO}_4 \cdot 3\text{Cu(OH)}_2$)

ORANGE 500 (Oxyde Copper)

ORANGE 280 (Oxyde Copper)

UNICO OLIVO (Copper + B + Sulphur)

UNICO VITE (Copper + Fe + Sulphur)

CUPROLIVO (Copper + Sulphur + AA)

CUPROVITE (Copper + Sulphur + AA)

CUPROKAO (Copper + Kaolin)

CUPROZEO (Copper + Zeolite)

CUPROGEL (Copper + Silica Gel)

CUPROBENT (Copper + Bentonite)

Copper based



	<h2>Copper Sulphate</h2>	<p>Copper is involved in various enzymatic systems where it cannot be replaced by any other metal ion.</p> <p>It is essential in the metabolism of carbohydrates and nitrogen, involved in the formation of the cell wall, electron transport, and oxidation reactions.</p> <p>Copper also influences the chemical composition and formation of cell walls, the synthesis of lignin, which in turn affects lignification and the physical strength of shoots and stems that need to defend themselves against parasitic attacks.</p>
	<h2>Okypol 20 wp</h2>	<p>Okypol 20 wp is a fertilizer based on Copper Sulfate, with the addition of Manganese. It comes in the form of wettable powder.</p> <p>Copper and Manganese are involved in the functioning of various plant enzymatic systems: they participate in the metabolism of carbohydrates and nitrogen, in electron transport, in the formation of the cell wall, in lignin synthesis, etc.</p> <p>The content of Cu (20%) and Mn (0.2%) makes Okypol 20 WP an ideal product for the prevention and treatment of micro deficiencies.</p>
	<h2>Okyram 50 wdg</h2>	<p>Okyram 50 WDG is a fertilizer based on Copper oxychloride.</p> <p>Copper is a micronutrient necessary for the health of plants and animals.</p> <p>Copper deficiency in the soil is a problem for food production, as it leads to a decrease in yields and crop quality. Nitrogen fertilizers can exacerbate copper deficiency in soils. Rice and wheat, the two most important staple foods in the world, are highly sensitive to copper deficiency; the same is true for other important crops including citrus, oats, spinach, etc.</p>
	<h2>Okyram 50 wp</h2>	<p>Okyram 50 WP is a fertilizer based on Copper oxychloride.</p> <p>Copper is a micronutrient necessary for the health of plants and animals.</p> <p>Copper deficiency in the soil is a problem for food production, as it leads to a decrease in yields and crop quality. Nitrogen fertilizers can exacerbate copper deficiency in soils. Rice and wheat, the two most important staple foods in the world, are highly sensitive to copper deficiency; the same is true for other important crops including citrus, oats, spinach, etc.</p>

Ecopper Blu

Microelements mixture
Manganese (Mn) e Copper (Cu)
Flowable Formulation

Copper (Cu) Hydroxide	25%
Manganese (Mn)	0.2%

Ecopper Blu is a fertilizer based on Copper Hydroxide, with the addition of Manganese, in a flowable formulation with a pleasant pine scent.

Copper and Manganese are involved in the functioning of various plant enzymatic systems: they participate in the metabolism of carbohydrates and nitrogen, electron transport, cell wall formation, lignin synthesis, etc. The content of Cu (25%) and Mn (0.2%) makes Ecopper Blu an ideal product for the prevention and treatment of micro deficiencies.

Ecopper Verde

Microelements mixture
Manganese (Mn) e Rame (Cu)
Flowable Formulation

Copper (Cu) Oxychloride	30%
Manganese (Mn)	0,2%

Ecopper Verde is a fertilizer based on Copper Oxychloride, with the addition of Manganese, in a flowable formulation with a pleasant mint scent.

Copper and Manganese are involved in the functioning of various plant enzymatic systems: they participate in the metabolism of carbohydrates and nitrogen, electron transport, cell wall formation, lignin synthesis, etc.

The content of Cu (30%) and Mn (0.2%) makes Ecopper Verde an ideal product for the prevention and treatment of micro deficiencies.

Orange 500

50% Flowable Copper with
synergist Essential Orange Oil

Total (Cu) Copper	33% p/p = 50% p/v
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Orange 500 sc, a "Suspension Concentrate" formulation, stands out as the premier Copper-based product available. The production of Red Cuprous Oxide (Cu_2O) occurs within our facilities in Italy, employing a catalytic oxidation process. The particle size is incredibly minute, with an average value less than 1 micron, ensuring enhanced efficacy.

Orange 500 sc, when blended with mineral oils + water, serves as a potent solution for safeguarding citrus trees from critical diseases such as Phytophthora citrophthora, ensuring robust plant health and bountiful yields.

Orange 280

Microelements mixture
Boron (B) and Copper (Cu)
(sulphate + oxide)

Total (B) Boron	0.2%
Total (Cu) Copper	20% p/p = 28% p/v

Orange 280 is a fertilizer containing 28% w/v of metallic copper, in the form of copper sulphate and copper oxide in concentrated suspension (SC). It is produced using the innovative "Nanotech" technology, with which very fine particles are generated, with a diameter of approximately 1 micron (approximately 80% of them have a diameter of less than 1 micron), in order to increase the surface/surface ratio. volume of the product and therefore its effectiveness. Thanks to its high levels of Copper, Orange 280 finds application both in nutritional planning and in the main defense plans of all crops.

Copper based



Unico Olivo

CE Fertilizer based
Copper, Boron, Manganese and Iron,
WGS Formulation.

Hydroxide (Cu) Copper	12%
Boron (B)	2%
Manganese (Mn)	1%
Iron (Fe)	0.5%

Unico Olivo is a CE fertilizer based on Copper, Boron, Manganese, and Iron, in a WGS (Water-dispersible Granules) form. This product is specifically designed for foliar applications on both mature and young olive plants. Unico Olivo represents an absolute innovation, as it aims to facilitate the application of Micronutrients, Cu+B+Mn+Fe, with complete safety and convenience. Its WGS formulation enables a strong synergistic activity of the elements, enhancing their beneficial effects on vegetation, while simultaneously reducing the risk of inhaling irritating dust particles.



Unico Vite

CE Fertilizer based
Rame, Boro, Ferro, Manganese and Zinc,
sottoforma WGS.

Hydroxide (Cu) Copper	18%
Boron (B)	2%
Manganese (Mn)	1%
Iron (Fe)	0.5%
Zinc (Zn)	0.5%

Unico Vite is an absolutely innovative product, designed to facilitate the use of Micronutrients, Cu+B+Fe+Mn+Zn, with complete safety and convenience.

Its WGS formulation allows for a strong synergistic activity of the elements, enhancing their beneficial effects on vegetation, while simultaneously reducing the risk of inhaling irritating dust particles. Unico Vite is also extremely effective in preventing the main phytopathological issues of the Vine (molds, downy mildew, powdery mildew, etc.), strengthening the plant's defenses.



Cuprolivo

Copper based
fertilizer with Sulphur

Total (Cu) Copper	12%
Copper (Cu) soluble in water	12%
Sulphur (S) element	56%

Cuprolivo wgs is a CE fertilizer based on Copper and Sulfur, in WGS (Water-dispersible Granules) form. This product is designed for foliar applications on both mature and young olive plants.

Cuprolivo wgs is an absolutely innovative product, as it aims to facilitate the use of two elements, Copper and Sulfur, with complete safety and convenience. Its WGS formulation allows for a strong synergistic activity of the two elements, enhancing their beneficial effects on vegetation, while simultaneously reducing the risks of inhaling irritating dust particles of Sulfur and Copper.



Cuprovite

Microelements mixture fertilizer with
Copper, Boron and Manganese

Total (Cu) Copper	12%
Copper (Cu) soluble in water	12%
Boron (B) soluble in water	1%
Manganese (Mn) soluble in water	1%
Sulphur (S) element	56%

Cuprovite wgs is an absolutely innovative product, designed to facilitate the use of two elements, Copper and Sulfur, with complete safety and convenience.

Its WGS formulation allows for a strong synergistic activity of the two elements, enhancing their beneficial effects on vegetation, while simultaneously reducing the risks of inhaling irritating dust particles of Sulfur and Copper.

Cuprovite wgs is primarily used in spring and summer, and its effectiveness is enhanced by high temperatures.

Copper based



Cuprokao

Microelements based Fertilizer
**Copper (Cu), Iron (Fe)
and Caolin Clay 2 µm**

Copper Oxychloride 50% (Cu)	8%
Iron (Fe)	1%

Cuprokao is an interesting blend of microelements (Cu and Fe) and Kaolin suitable for preventing and treating deficiencies of these elements and inducing plant resistance to biotic and abiotic stresses.

The use of Cuprokao in defense protocols increases crop protection against various types of pathogenic attacks. SKL Kaolin is an extra-fine (2µm) white mineral that offers numerous agronomic advantages: it enhances plant resistance to abiotic stresses, such as high temperatures and sunburn, creating a barrier against UV rays that can damage fruits and leaves.



Cuprozeol

Microelements based Fertilizer
Copper (Cu), Iron (Fe) and Zeolite

Copper Oxychloride 50% (Cu)	10%
Iron (Fe)	1%

Cuprozeol is an interesting blend of microelements (Cu and Mn) and Clinoptilolite Zeolite suitable for preventing and treating deficiencies of these elements and inducing plant resistance to biotic and abiotic stresses.

The use of Cuprozeol increases crop protection against pathogenic attacks.

SKL Zeolite is a high-quality mineral with an extra-fine crystalline structure (2µm): it improves plant resistance to biotic and abiotic stresses and creates a potent barrier against major plant diseases.



Cuprogel

Microelements based Fertilizer
**Copper (Cu), Iron (Fe)
and Silica Gel**

Copper Oxychloride 50% (Cu)	10%
Iron (Fe)	1%

Cuprogel is an interesting blend of microelements (Cu and Fe) and Silica Gel suitable for preventing and treating deficiencies of these elements and inducing plant resistance to biotic and abiotic stresses.

The use of Cuprogel in defense protocols increases crop protection against various pathogenic attacks. SKL Silica Gel is an extra-fine (0.2µm) high-quality product, useful for local moisture control on vegetation, thanks to its excellent adsorption capacity, where water vapor molecules bind to the external and internal surface of the gel.



Cuprobent

Microelements based Fertilizer
**Copper (Cu), Iron (Fe)
and Bentonite**

Copper Oxychloride 50% (Cu)	6%
Iron (Fe)	1%

Cuprobent is an interesting blend of microelements (Cu and Fe) and Bentonite suitable for preventing and treating deficiencies of these elements and inducing plant resistance to biotic and abiotic stresses.

The use of Cuprobent in defense protocols increases crop protection against various pathogenic attacks. Bentonite is a mineral rich in meso and microelements: it absorbs large amounts of water from leaves and fruits, inhibiting the proliferation of pathogens and healing the micro-lesions that would otherwise easily lead to fungal infections.





Complexed Nutrients

The products in the **Complex line** are high-titer liquid and powder fertilizers with a complex of micro and meso-elements, chelated with alpha-hydroxides acids (AHA), Calcium Lignosulfonate (LSC), Ethylenediaminetetraacetic acid (EDTA), and Polyamide (DTPA).

The products in the Complex line are not influenced by the chemical characteristics of the soil water, and their stability is maximum at both acidic and alkaline pH.

The Complex line is effective in the treatment and prevention of many physiological disorders due to deficiencies of Meso (Mg, Ca) and Micro elements (Fe, Mn, Zn, B, etc).

They provide the plant with easily assimilable elements, both foliar and root-absorbed.

They are ideal, therefore, for the prevention and treatment of possible deficiency states.

SUMMARY

BICOMPLEX FERRO (Fe Glicinate)

SEYFER 320 (Fe EDDHSA 6% - 3,5 o-o)

SEYFER 480 (Fe EDDHA 6% - 4,8 o-o)

FERRO EDTA (13% Fe)

FERRO COMPLEX (Fe Gluconate)

FERRO DTPA 11%

FERRO DTPA L 5%

POTASSIO FORTE ($\text{CH}_3\text{CO}_2\text{K}$)

BIO CALCIO (LSC)

CALCIO COMPLEX (Ca Gluconate)

CALCIO FORTE 400 WP $\text{Ca}(\text{HCOO})_2$

MULTIMICRO L COMPLEX (AHA)

MICROMIX OLIVO (EDTA Mix)

MICROMIX VITE (EDTA Mix)

MICROMIX DTPA (DTPA Mix)

MICROMIX EDTA (DTPAA Mix)

ZINCO COMPLEX (Zn Gluconate)

ZINCO EDTA 15%

Zn & Mn COMPLEX (Zn+Mn Gluconate)

ZINCO FORTE ($\text{CH}_3\text{CO}_2\text{Zn}$)

BORO COMPLEX (B Etanolamine)

MAGNESIO COMPLEX (Mg Gluconate)


RAME EDTA 15%


MANGANESE EDTA 13%


Complex Line




	<h2>Bicomplex Ferro</h2> <p>Iron based fertilizer complexed with amino acids and peptides</p> <table><tr><td>Iron (Fe) soluble in water</td><td>8%</td></tr><tr><td>Iron (Fe) complexed</td><td>6%</td></tr></table> <p>Complexing agent: hydrolyzate of animal proteins</p>	Iron (Fe) soluble in water	8%	Iron (Fe) complexed	6%	<p>Bicomplex Ferro is a high-titer liquid fertilizer with a high concentration of Iron, complexed with amino acids of very low molecular weight.</p> <p>Bicomplex Iron, thanks to its particular composition, is doubly protected from interactions that occur with the surrounding environment: in this way, Iron can be rapidly assimilated, translocated, and metabolized by the plant.</p> <p>In fact, extensive research has shown that the product has a positive effect on the plant within a few hours of treatment.</p>
Iron (Fe) soluble in water	8%					
Iron (Fe) complexed	6%					
	<h2>Seyfer 320</h2> <p>CE Fertilizer Iron Chelated (EDDHA)</p> <table><tr><td>Iron (Fe) soluble in water</td><td>6%</td></tr><tr><td>Iron (Fe) chelated with EDDHA</td><td>3,2%</td></tr></table> <p>Chelating agent: EDDHA</p>	Iron (Fe) soluble in water	6%	Iron (Fe) chelated with EDDHA	3,2%	<p>Seyfer 320 is a fertilizer based on iron chelate specifically for the prevention and treatment of iron deficiency in crops, especially in the most sensitive ones, such as Citrus.</p> <p>It is a product of high quality and solubility; it prevents and treats iron deficiency and its manifestations of "ferric chlorosis", namely the interveinal yellowing that often occurs in leaves, causing reduced growth and consequently, poor flowering and fruiting. Ferric chlorosis is very often found in Citrus (especially Lemon), Vine, Apple, Peach, Tomato, and Strawberry.</p>
Iron (Fe) soluble in water	6%					
Iron (Fe) chelated with EDDHA	3,2%					
	<h2>Seyfer 480</h2> <p>Concime CE Chelato di Ferro (EDDHA)</p> <table><tr><td>Iron (Fe) soluble in water</td><td>6%</td></tr><tr><td>Iron (Fe) chelated with EDDHA</td><td>4,8%</td></tr></table> <p>Chelating agent: EDDHA</p>	Iron (Fe) soluble in water	6%	Iron (Fe) chelated with EDDHA	4,8%	<p>Seyfer 480 is a fertilizer based on iron chelate specifically for the prevention and treatment of iron deficiency in crops, especially in the most sensitive ones, such as Citrus.</p> <p>It is a product of high quality and solubility; it prevents and treats iron deficiency and its manifestations of "ferric chlorosis", namely the interveinal yellowing that often occurs in leaves, causing reduced growth and consequently, poor flowering and fruiting. Ferric chlorosis is very often found in Citrus (especially Lemon), Vine, Apple, Peach, Tomato, and Strawberry.</p>
Iron (Fe) soluble in water	6%					
Iron (Fe) chelated with EDDHA	4,8%					
	<h2>Ferro EDTA 13%</h2> <p>Concime CE Chelato di Ferro EDTA</p> <table><tr><td>Iron chelate (Fe - EDTA) soluble in water</td><td>13%</td></tr></table> <p>Chelating agent: EDTA</p>	Iron chelate (Fe - EDTA) soluble in water	13%	<p>Ferro EDTA is a product based on the microelement Iron complexed with ethylenediaminetetraacetic acid (EDTA), which makes the Iron element easily assimilable. As a fertilizer, it is particularly useful for preventing and treating iron chlorosis in all crops. Through foliar or root applications, it plays a fundamental role in:</p> <ul style="list-style-type: none">• chlorophyll synthesis;• auxin production;• growth processes;• improving fruit production and coloration.		
Iron chelate (Fe - EDTA) soluble in water	13%					


	<h2>Ferro complex</h2>		<p>Ferro Complex is a high-grade liquid fertilizer rich in Iron, complexed with alpha-hydroxides (AHA). Unlike other chelating agents, AHAs do not disrupt the structure of plant cell walls during absorption. Iron Complex is unaffected by the chemical characteristics of soil water and maintains maximum stability at both acidic and alkaline pH levels.</p> <p>The product is effective in the treatment and prevention of many physiopathies resulting from Iron deficiency. The particular formulation of Iron Complex provides the plant with easily assimilable Iron.</p>			
	<p>Copper Based Fertilizer complexed with amino acids and peptides</p>					
	<table border="1"> <tr> <td>Iron (Fe) soluble in water</td> <td>5%</td> </tr> <tr> <td>Iron (Fe) complexed</td> <td>5%</td> </tr> <tr> <td colspan="2">Complexing agent: protein hydrolysate</td> </tr> </table>	Iron (Fe) soluble in water		5%	Iron (Fe) complexed	5%
Iron (Fe) soluble in water	5%					
Iron (Fe) complexed	5%					
Complexing agent: protein hydrolysate						

	<h2>Ferro DTPA 11%</h2>		<p>Ferro DTPA is a powder product based on the microelement Iron complexed with diethylenetriamine pentaacetate (DTPA) which makes the element Iron stable to sunlight and easily assimilable via the leaves. As a fertilizer it is particularly useful for preventing and treating iron chlorosis in all crops and plays a fundamental role through foliar or root applications:</p> <ul style="list-style-type: none"> • in the synthesis of chlorophyll; • in the production of auxins; • in growth processes; • improving fruit production and coloring;
	<p>CE Fertilizer Iron Chelated DTPA</p>		
	<table border="1"> <tr> <td>Iron complex DTPA</td> <td>11%</td> </tr> </table>	Iron complex DTPA	
Iron complex DTPA	11%		

	<h2>Ferro DTPA L 5%</h2>		<p>Ferro DTPA L is a liquid product based on the microelement Iron complexed with diethylenetriamine pentaacetate (DTPA) which makes the element Iron stable to sunlight and easily assimilable via the leaves. As a fertilizer it is particularly useful for preventing and treating iron chlorosis in all crops and plays a fundamental role through foliar or root applications:</p> <ul style="list-style-type: none"> • in the synthesis of chlorophyll; • in the production of auxins; • in growth processes; • improving fruit production and coloring;
	<p>CE Fertilizer Iron Chelated DTPA</p>		
	<table border="1"> <tr> <td>Iron complex DTPA</td> <td>5%</td> </tr> </table>	Iron complex DTPA	
Iron complex DTPA	5%		

	<h2>Potassio Forte</h2>		<p>The functions of Potassio Forte are manifold and are particularly evident in the phase preceding the ripening of fruits. It promotes the accumulation of sugars, enhances color, provides greater shelf life, and improves the organoleptic qualities of the fruits.</p> <p>Potassium Plus can be used, at the recommended doses, both foliarly and via fertigation.</p> <p>In cells, it participates in the transformation of nitrates into proteins and regulates the opening of stomata.</p>			
	<p>CE Fertilizer Potassium Nitrate</p>					
	<table border="1"> <tr> <td>Total (N) Nitrogen</td> <td>13%</td> </tr> <tr> <td>Nitric (N) Nitrogen</td> <td>13%</td> </tr> <tr> <td>Potassium oxide (K₂O) soluble in water</td> <td>46%</td> </tr> </table>	Total (N) Nitrogen		13%	Nitric (N) Nitrogen	13%
Total (N) Nitrogen	13%					
Nitric (N) Nitrogen	13%					
Potassium oxide (K ₂ O) soluble in water	46%					

	<div>Bio Calcio</div> <div>Calcium Complexed Ammonium lignosulphonate</div> <table><tr><td>Total Calcium Oxide (CaO)</td><td>15%</td></tr><tr><td>Calcium oxide (CaO) in complexed form</td><td>12%</td></tr></table>	Total Calcium Oxide (CaO)	15%	Calcium oxide (CaO) in complexed form	12%	<p>Bio Calcio is a liquid fertilizer with a high calcium content, complexed with ammonium lignosulphonates deriving from the wood cellulose extraction process.</p> <p>Unlike other chelating agents, lignosulfonates do not destroy the structure of plant cell walls during absorption. Bio Calcio is not influenced by the chemical characteristics of soil water and its stability is maximum at both acid and alkaline pH.</p> <p>The product is effective in the treatment and prevention of many physiopathologies due to calcium deficiency.</p>		
Total Calcium Oxide (CaO)	15%							
Calcium oxide (CaO) in complexed form	12%							
	<div>Calcio Complex</div> <div>Fertilizer CE Calcium Nitrate Solution</div> <table><tr><td>Total (N) Nitrogen</td><td>8%</td></tr><tr><td>Calcium Oxide (Ca) soluble in water</td><td>10%</td></tr></table>	Total (N) Nitrogen	8%	Calcium Oxide (Ca) soluble in water	10%	<p>Calcio Complex is a high-grade liquid fertilizer rich in Calcium, complexed with alpha-hydroxides (AHA). Unlike other chelating agents, AHAs do not disrupt the structure of plant cell walls during absorption.</p> <p>Calcium Complex is unaffected by the chemical characteristics of soil water and maintains maximum stability at both acidic and alkaline pH levels.</p> <p>The product is effective in the treatment and prevention of many physiopathies resulting from Calcium deficiency.</p>		
Total (N) Nitrogen	8%							
Calcium Oxide (Ca) soluble in water	10%							
	<div>Calcio Forte 400</div> <div>Fertilizer CE Calcium Formate</div> <table><tr><td>Calcium Oxide (Ca) soluble in water</td><td>40%</td></tr></table>	Calcium Oxide (Ca) soluble in water	40%	<p>Calcio Forte 400 wp is a product with a high calcium content, complexed with an organic acid (formic acid) highly soluble in water, suitable for use on all crops, fruit and leaves.</p> <p>Its use is recommended in all phenological phases: from pre-flowering to harvest.</p> <p>Unlike calcium nitrate which also contains nitrogen, this product is free of it, therefore it can be used as a source of readily assimilable calcium even in the presence of plants with high vegetative vigor or in organic management.</p>				
Calcium Oxide (Ca) soluble in water	40%							
	<div>Multimicro L</div> <div>Microelements mixture Fe (sulphate), Mn (sulphate) Zn (sulphate)</div> <table><tr><td>Iron (Fe) soluble in water</td><td>2%</td></tr><tr><td>Manganese (Mn) soluble in water</td><td>0,5%</td></tr><tr><td>Zinc (Zn) soluble in water</td><td>2%</td></tr></table>	Iron (Fe) soluble in water	2%	Manganese (Mn) soluble in water	0,5%	Zinc (Zn) soluble in water	2%	<p>Multimicro L Complex is a state-of-the-art product based on micronutrients, resulting from research and experience in resolving multiple micronutritional deficiencies in Grapevines and Fruit trees.</p> <p>Multimicro L Complex is particularly suitable for the prevention and treatment of specific multiple deficiencies, such as iron, zinc, and manganese, which manifest as yellowing and chlorosis of the leaf tissue in many crops.</p> <p>Multimicro L Complex can be used on all crops, both foliarly and radially.</p>
Iron (Fe) soluble in water	2%							
Manganese (Mn) soluble in water	0,5%							
Zinc (Zn) soluble in water	2%							




Micromix Olivo

Boron (B) soluble in water	12%
Iron (Fe) soluble in water	1,6%
Iron (Fe) chelated with EDTA	1,6%
Manganese (Mn) soluble in water	0,8%
Manganese (Mn) chelated with EDTA	0,8%
Zinc (Zn) soluble in water	1,6%
Zinc (Zn) chelated with EDTA	1,6%

Micromix Olivo is a product based on Boron, Iron, Manganese, and Zinc complexed with ethylenediaminetetraacetic acid (EDTA), resulting from research and experience in resolving multiple micronutritional deficiencies in Vines, Fruit trees, and Flowers.

Micromix Olivo is particularly suitable for the prevention and treatment of specific multiple deficiencies, such as Boron, Iron, Zinc, and Manganese, which manifest as yellowing and chlorosis of the leaf apparatus in many crops.




Micromix Vite

Boron (B) soluble in water	8,5%
Iron (Fe) soluble in water	3,7%
Iron (Fe) chelated with EDTA	3,7%
Manganese (Mn) soluble in water	1%
Manganese (Mn) chelated with EDTA	1%
Zinc (Zn) soluble in water	2,1%
Zinc (Zn) chelated with EDTA	2,1%

Micromix Vite is a product based on Boron, Iron, Manganese, and Zinc complexed with ethylenediaminetetraacetic acid (EDTA), resulting from research and experience in resolving multiple micronutritional deficiencies in Vines, Fruit trees, and Flowers.

Micromix Vite is particularly suitable for the prevention and treatment of specific multiple deficiencies, such as Boron, Iron, Zinc, and Manganese, which manifest as yellowing and chlorosis of the leaf apparatus in many crops.




Micromix DTPA

Iron (Fe) soluble in water	7%
Iron (Fe) chelated with DTPA	7%
Manganese (Mn) soluble in water	2,2%
Manganese (Mn) chelated with DTPA	2,2%
Zinc (Zn) soluble in water	2,5%
Zinc (Zn) chelated with DTPA	2,5%

Chelating agent: DTPA

Micromix DTPA is a product based on Iron, Manganese, and Zinc chelated with diethylenetriaminepentaacetic acid (DTPA), the result of research and experience in resolving multiple micronutritional deficiencies in Grapevines, Fruit trees, and Floriculture.

Micromix DTPA is particularly suitable for the prevention and treatment of specific multiple deficiencies, such as Iron, Zinc, and Manganese, which manifest as yellowing and chlorosis of the leaf tissue in many crops.



Micromix EDTA

Iron (Fe) soluble in water	7%
Iron (Fe) chelated with EDTA	7%
Manganese (Mn) soluble in water	2,2%
Manganese (Mn) chelated with EDTA	2,2%
Zinc (Zn) soluble in water	2,5%
Zinc (Zn) chelated with EDTA	2,5%

Chelating agent: EDTA


Micromix EDTA is a product based on Iron, Manganese, and Zinc chelated with ethylenediaminetetraacetic acid (EDTA), the result of research and experience in resolving multiple micronutritional deficiencies in Grapevines, Fruit trees, and Floriculture.


Micromix EDTA is particularly suitable for the prevention and treatment of specific multiple deficiencies, such as Iron, Zinc, and Manganese, which manifest as yellowing and chlorosis of the leaf tissue in many crops.


Complex Line




	<div>Zinco Complex</div> <div>CE Fertilizer Zinc sulphate solution</div> <table><tr><td>Zinc (Zn) soluble in water</td><td>11%</td></tr></table>	Zinc (Zn) soluble in water	11%	<p>Zinco Complex is a product based on Zinc complexed with medium molecular weight carboxylic acids, to be used in foliar applications, for the prevention and treatment of deficiencies caused by this element.</p> <p>The special formulation allows for the rapid assimilation of the Zinc ion through the cell membrane and the complete utilization of this element. The organic acids that accompany Zinc Complex are also easily and rapidly assimilated, even through the roots.</p>		
Zinc (Zn) soluble in water	11%					
	<div>Zinco EDTA 15%</div> <div>CE Fertilizer Zinc Chelated EDTA</div> <table><tr><td>Zinc (Zn) soluble in water</td><td>15%</td></tr><tr><td>Zinc (Zn) chelated EDTA</td><td>15%</td></tr></table>	Zinc (Zn) soluble in water	15%	Zinc (Zn) chelated EDTA	15%	<p>Zinco EDTA is a product based on the microelement Zinc complexed with ethylenediaminetetraacetic acid (EDTA), which makes the Zinc element easily assimilable. Acting as a catalyst for important physiological and biochemical processes and a precursor of Tryptophan, Zinc plays a fundamental role in:</p> <ul style="list-style-type: none">• Chlorophyll synthesis;• Auxin production;• Growth processes;• Improving fruit production and maturation;
Zinc (Zn) soluble in water	15%					
Zinc (Zn) chelated EDTA	15%					
	<div>Zn & Mn Complex</div> <div>Microelements mixture based on Manganese and Zinc</div> <table><tr><td>Zinc (Zn) soluble in water</td><td>3%</td></tr><tr><td>Manganese (Mn) soluble in water</td><td>2%</td></tr></table>	Zinc (Zn) soluble in water	3%	Manganese (Mn) soluble in water	2%	<p>Zn & Mn Complex is a product based on Zinc and Manganese complexed with medium molecular weight carboxylic acids, suitable for foliar applications to prevent and treat deficiencies caused by these elements.</p> <p>The special formulation enables the rapid assimilation of the Zinc and Manganese ions through the cell membrane and the complete utilization of these elements. The organic acids that accompany the complex are also easily and rapidly assimilated, even through the roots.</p>
Zinc (Zn) soluble in water	3%					
Manganese (Mn) soluble in water	2%					
	<div>Zinco Forte</div> <div>CE Fertilizer Zinc complexed with AHA</div> <table><tr><td>Zinc (Zn) complexed with AHA</td><td>30%</td></tr></table>	Zinc (Zn) complexed with AHA	30%	<p>Zinco Forte is a product based on Zinc complexed with medium molecular weight carboxylic acids, to be used in foliar applications, for the prevention and treatment of deficiencies caused by this element.</p> <p>The special formulation allows for the rapid assimilation of the Zinc ion through the cell membrane and the complete utilization of this element. The organic acids that accompany Zinc Complex are also easily and rapidly assimilated, even through the roots.</p>		
Zinc (Zn) complexed with AHA	30%					

	<h2 style="text-align: center;">Boro Complex</h2> <p style="text-align: center;">Fertilizer CE Boron Ethanolamine</p> <hr/> <p>Boron (B) soluble in water 11%</p> <p>Product registered in the Register of fertilizers for organic use: n° 10725/15</p>	<p>Boron chelated with an organic molecule and the liquid formulation allow Boro Complex to achieve perfect product distribution uniformly through foliar application. It significantly promotes fertilization and regulates the absorption of macronutrients and the transport of sugars in the plant.</p> <p>Applications become necessary when plants exhibit poor vegetative growth or reduced fruit set, as well as for problems such as grape shot in vines, corky ringspot in certain fruit trees, sugar beet heart rot, stunted tobacco growth, and more.</p>
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	<h2 style="text-align: center;">Magnesio Complex</h2> <p style="text-align: center;">Ce Fertilizer Magnesium Nitrate Solution</p> <hr/> <p>Nitrogen (N) Nitric 6%</p> <p>Magnesium oxide (MgO) soluble in water 9%</p>	<p>Magnesio Complex is a product based on Magnesium complexed with Alpha Hydroxy Acids (AHA), to be used in foliar applications for the prevention and treatment of deficiencies caused by this element.</p> <p>The special formulation allows for the rapid assimilation of the Magnesium ion through the cell membrane and the complete utilization of this element.</p> <p>The organic acids that accompany Magnesium Complex are also easily and quickly assimilated.</p>
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	<h2 style="text-align: center;">Rame EDTA 13%</h2> <p style="text-align: center;">CE Fertilizer Copper Chelated EDTA</p> <hr/> <p>Copper chelate (Cu - EDTA) soluble in water 13%</p> <p>Chelating agent: EDTA</p>	<p>Rame EDTA is a product based on the microelement Copper complexed with ethylenediaminetetraacetic acid, which makes the Copper element easily assimilable. As a fertilizer, it is particularly useful for preventing and treating Copper deficiency in all crops. When distributed through foliar applications, it plays a fundamental role:</p> <ul style="list-style-type: none"> • in chlorophyll synthesis; • nella produzione delle auxine; • in auxin production; • in improving fruit production and coloring;
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	<h2 style="text-align: center;">Manganese EDTA 13%</h2> <p style="text-align: center;">CE Fertilizer Manganese Chelated EDTA</p> <hr/> <p>Manganese chelate (Mn - EDTA) soluble in water 13%</p> <p>Chelating agent: EDTA</p>	<p>Manganese EDTA is a product based on the microelement Manganese complexed with ethylenediaminetetraacetic acid (EDTA), which makes the Manganese element easily assimilable. As a fertilizer, it is particularly useful for preventing and treating Manganese deficiency in all crops. Through foliar or root applications, it plays a fundamental role in:</p> <ul style="list-style-type: none"> • chlorophyll synthesis; • auxin production; • growth processes; • improving final production.
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Special Line

Our special line of agricultural products includes a wide range of wetting agents, adhesives, surfactants, and pH correctors.

Our products are formulated to enhance the effectiveness of agrochemicals and protect plants from harmful agents in vegetables, plant parts, or plant products used for food purposes.

Our wetting agents help reduce the surface tension of water, improving the distribution of agrochemicals on the plant. Adhesives increase the adhesion of agrochemicals to leaves and fruits, reducing wash-off.

Surfactants improve the wetting of leaves and fruits, enhancing the effectiveness of agrochemicals. Finally, pH correctors regulate the pH of the water used for agrochemical mixing, improving their effectiveness.

SUMMARY

BASE GOLD

BASE JET

BASE PIÙ INDICATOR

SOLWET

OLIO DI NEEM

OLIO DI KARANJA

AGRUMOL WHITE

AGRUMOL RED

Base Gold

Protective wetting agent
based on Pinolene

Pinolene 90% - Mixture of Terpenes and Alcohols	40%
Fatty acids and distillates	30%
Emulsifiers	30%

Base Gold is a concentrated emulsion of natural origin that acts as a coadjutant in foliar treatments. Obtained from a special emulsion of pine resins (pinolene and resinoline), Base Gold covers surfaces with a thin and uniform natural waxy film, allowing it to:

- Distribute products applied simultaneously more evenly and retain them for longer, thus increasing their effectiveness.
- Protect treated surfaces from damage caused by excessive moisture and persistent rain.

Base Jet

Adhesive wetting agent
waxy non-foaming

Mixture of Alcohols, Terpenes and Fatty Acids	2%
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Base Jet è un formulato a base di resine di pino e alcoli grassi ideale per aumentare il contatto fra le sostanze da trattare o irrorare la superficie interessata.

Permette una più omogenea copertura e una maggiore persistenza della miscela. Evita il formarsi di schiuma e favorisce la miscibilità dei prodotti.

Base Jet è inoltre dotato di una potente azione antilavante.

Base + Indicator

Fertilizer Solution
NP 4 - 20

Total (N) Nitrogen	4%
Ureic (N) Nitrogen	4%
Phosphoric anhydride (P_2O_5) soluble in water	20%

Base + Indicator is a high-phosphorus foliar fertilizer with strong acidifying activity.

Due to these characteristics, it is recommended as a Nitrogen and Phosphorus supplement during the plant's productive phases and as a pH corrector in the case of the use of hard water in foliar treatments. Base + Indicator has high wetting power, improves the miscibility of emulsifiable products with wettable powder ones, prevents foam formation, allows for more uniform coverage, and greater persistence of the mixture.

Solwet

Organic humectant
with surfactant action

Organic surfactants	
Amino acids	

Solwet is an organic wetting agent composed of surfactants, characterized by: a hydrophilic portion that binds water molecules and a hydrophobic portion that binds to the soil.

These characteristics make it an extremely effective product, capable of "capturing" and retaining water in the soil for a certain period.

Solwet is ideal for all types of soil and substrates, especially those with poor drainage capacity, sandy or hydrophobic, ensuring a more uniform water distribution.



Neem Oil

Deterrent and inhibitor
for the growth of insects
Fungistatic action

Oleic Monounsaturated C18:1	25 - 54%
Saturated palmitic C16	16 - 33%
Saturated stearic C18	9 - 24%
Polyunsaturated linoleic C18:2	6 - 16%

Neem Oil is a crucial natural product in organic and integrated agriculture, as it exerts both powerful phyto-repellent and fungistatic actions. Neem oil, similar to other oils used in agriculture, can control the proliferation of mites, whiteflies, aphids, and other soft-bodied insects through suffocation. For these reasons, over the centuries, many insects have learned to avoid areas and vegetation treated with this product, making Neem oil a potent insect repellent and deterrent for their feeding and oviposition. degli insetti e deterrente per la loro nutrizione e ovideposizione.



Karanja Oil

Deterrent and inhibitor
for the growth of insects
Fungistatic action

Oleic Monounsaturated C18:1	44,5 - 71,3%
Polyunsaturated linoleic C18:2	10,8 - 18,3%
Monounsaturated eicosenoic C20:1	9,5 - 12,4%
Saturated palmitic C16	3,7 - 7,9%

When a parasite feeds on the leaf or sap of a plant treated with **Karanja Oil** the substances contained within it, such as Karanjin, generate an anti-peristaltic wave in the insect's alimentary canal, causing a sensation of vomiting.

The pathogen's swallowing ability is blocked, and due to this sensation, the insect no longer feeds on the treated surface. Furthermore, due to these substances, the females are unable to complete the oviposition process, resulting in no further damage to the vegetation.



Agrumol White

**Sunflower oil
in dispersion**

Oleic Acid	14 - 40%
Linoleic Acid	48 - 74%

Agrumol White is a product based on pure and refined sunflower oil, designed and formulated exclusively for use in agriculture.

As an insecticide, Agrumol suffocates insects on contact by interrupting respiration and the function or structure of the cell membrane.

As a fungicide, its action is mostly fungistatic, blocking the growth of fungi rather than suppressing the pathogens. Agrumol can therefore suffocate fungal growth and reduce spore germination on treated surfaces.



Agrumol Red

**Sunflower oil
in dispersion with Copper**

Oleic Acid	14 - 40%
Linoleic Acid	48 - 74%
Copper content (Cu)	2%

Agrumol Red is a product based on pure and refined sunflower oil with additional of Copper Oxide (CuO), designed and formulated exclusively for use in agriculture.

As an insecticide, Agrumol suffocates insects on contact by interrupting respiration and the function or structure of the cell membrane. As a fungicide, its action is mostly fungistatic, blocking the growth of fungi rather than suppressing the pathogens. Agrumol can therefore suffocate fungal growth and reduce spore germination on treated surfaces, the addition of Copper Oxide makes it more effective.





Sulphur Line

Our exclusive "Sulfur Line" represents a set of innovative and high-quality agricultural products, designed to maximize crop yield and quality, while ensuring sustainable farming practices. With a commitment to excellence and sustainability, our Sulfur line provides a comprehensive solution for farmers seeking optimal results in terms of productivity and soil health.

Products in the line:

- Sulfur-enriched fertilizers: Our balanced and highly soluble fertilizers offer optimal nourishment for plants, enhancing protein synthesis and improving overall soil structure to promote healthy and vigorous crop growth.
- Sulfur-based soil correctors: Our high-quality soil correctors are designed to optimize soil pH, ensuring a favorable environment for nutrient absorption by crops and significantly improving the soil's water retention capacity.
- Bio-sulfurs for organic farming: Our organic bio-sulfurs provide an eco-friendly solution for sustainable crop management, promoting soil and plant health without compromising the natural balance of the surrounding environment.

SUMMARY

OKYSOL B (Sulphur + Bentonite)

OKYSOL R (Sulphur + Copper)

OKYSOL Z (Sulphur + Zeolite)

BIOSOL 80 WDG (Colloidal Sulphur)

LENTISOL 90 (Sulphur + Bentonite lent.)

LENTISOL 99 (Pure Sulphur 99%)

POLISOL KS 90 (Potassium Polisulphide)

PROSOL (Sulphur + Propolis)

Sulphur Line



Okysol B

Sulphur and Bentonite
Fertilizer

Elementar Sulphur (S)	50%
Bentonite	50%

Okysol B is designed to facilitate the dusty applications of Sulfur and Bentonite, simplifying the dosing and mixing operations of the two elements.

SKL suggests a package contains the proper ratio of micronized elemental sulfur and bentonite to achieve optimal results and minimize the risks of burns.

It also serves as a viable alternative to the use of chemical substances in controlling major agricultural pathologies, making it recommended even in biological and biodynamic defense protocols.



Okysol R

Corrective
Sulfur for agricultural use
with addition of Copper

Elementar Sulphur (S)	50%
Total (Cu) Copper	2.3%
Raw materials: Elemental sulfur, Copper oxychloride	

Okysol B is designed to facilitate the dusty applications of Sulfur and Bentonite, simplifying the dosing and mixing operations of the two elements.

SKL suggests a package contains the proper ratio of micronized elemental sulfur and bentonite to achieve optimal results and minimize the risks of burns.

It also serves as a viable alternative to the use of chemical substances in controlling major agricultural pathologies, making it recommended even in biological and biodynamic defense protocols



Okysol Z

Sulfur and Zeolite 2 µm
based fertilizer

Elementar Sulphur (S)	50%
Zeolite 2µm	50%

Okysol Z is an SKL product designed to facilitate the dusty applications of Sulfur and Zeolite, simplifying the dosing and mixing operations of the two elements.

The SKL-proposed package contains the proper ratio of micronized elemental sulfur and Zeolite to achieve optimal results and minimize the risks of burns.

Okysol Z also serves as a viable alternative to the use of chemical substances in controlling major agricultural pathologies, making it recommended even in biological and biodynamic defense protocols.




Biosol 80 WDG

Sulfur
based Fertilizer

Elementar Sulphur (S)	80%
Coformulants q.b. to	100 g

Sulfur deficiency manifests through symptoms such as chlorosis, stunting, delayed flowering, and reduced branching. These symptoms lead to decreased yield and crop quality.

Sulfur deficiency is more common in sandy, acidic, organic-matter-poor soils with high rainfall or irrigation. Sulfur is involved in various physiological and biochemical processes in plants. For instance, it is essential for the synthesis of cysteine and methionine, two amino acids crucial for the production of many proteins.



Lentisol 90


Corrective
Lentilized Sulfur and Bentonite

Elementar Sulphur (S)	90%
Bentonite	10%
Granule Size	2 mm x 4 mm

Lentisol 90 is a product based on micronized and pelletized Sulfur and Bentonite, easy and convenient to distribute, readily oxidizable once applied to the soil. Trials have shown that sulfur increases the yield and quality of wheat and forage.

Sulfur also has a positive interaction with nitrogen, enhancing nitrogen utilization efficiency and reducing the risk of environmental losses.

Without sulfur, plants cannot grow and develop optimally.



Lentisol 99


Lentilized Sulfur based
Corrective Fertilizer

Elementar Sulphur (S)	99%
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Lentisol 99 è un prodotto a base di Zolfo micronizzato e lenticchiato, facile e pratico da distribuire, facilmente ossidabile una volta applicato al terreno.

Le sperimentazioni hanno dimostrato che lo zolfo aumenta la resa e la qualità del grano e dei foraggi. Lo zolfo ha anche un'interazione positiva con l'azoto, che aumenta l'efficienza dell'utilizzazione dell'azoto e riduce il rischio di perdite nell'ambiente.

Senza lo zolfo, le piante non possono crescere e svilupparsi in modo ottimale.




Polisol KS 90

Liquid Fertilizer
Potassium and Sulphur based

Sulfur dioxide (SO ₂)	70%
Potassium oxide (K ₂ O)	20%

Polisol KS 90 is an innovative SKL product, which combines two fundamental elements for plants: Sulfur and Potassium. Sulfur is a mesoelement that participates in the synthesis of proteins and vitamins in plants. Potassium is a nutritional element that has several important functions for plants. Polisol KS 70 strengthens the woody tissues of plants, making them more robust and resistant to parasite attacks. Polisol KS 70 also stimulates the immune system of plants, thanks to the strengthening action of Potassium and Sulphur, preventing and combating fungal diseases of plants.



Prosol

Liquid Fertilizer
Propolis and Sulphur based

Elementar Sulphur (S)	57 % (p.p.) (800g/lit)
Propolis	1%

Prosol is an innovative product resulting from SKL research, which combines two natural and beneficial substances for plants: Sulfur and Propolis. Sulfur is an essential mesoelement for the synthesis of proteins and vitamins in plants, while propolis is a bee product that has antibacterial, antiviral and antifungal properties.

Prosol enhances plant health, nutrition and defense. Prosol has various benefits for plants, including: Healthy, Protective, Nutritive, Regulatory.





Organik Fertilizer Line

The fertilizers of the Organik line are formulated exclusively with natural organic ingredients permitted in Organic Farming.

The raw materials are indeed composed of natural products mainly derived from:

- vegetable by-products (dried molasses and borland, dehydrated vegetable protein ferments, vegetable amino acids, seaweed, peat, etc.);
- animal by-products (dried blood, meat or bone meal, fish meal, roasted leather, horn, hydrolyzed feathers, dehydrated animal amino acids, etc.);
- bird guano, pollen, manures;
- dry yeasts, humic acids, various organic fractions, etc.;
- Products from mining extraction, such as: Kieserite, Kainite, soft natural phosphate.

SUMMARY

RADICAL

BIOLIVO PLUS

FULVINAL COMBI

HUMINAL COMBI

PROTEIN SUPER 11 N

PROTEIN GOLD 8,5 N

PROTEIN SILVER 6,5 N

PROTEIN TOP

HEMOS 1400

BIOBLEND

BIOPHOS P28

ORGANEEM 450

ORGANIK 500

ORGANIK 660

ORGANIK 575

ORGANIK 700

ORGANIK 805

ORGANIK 1050

ORGANIK 1010

ORGANIK STAL

ORGANIK NP 17-25

ORGANIK NP 15-20

ORGANIK UMIC 45

ALFAPLUS



Radi-Cal

Calcium Complex
Ammonium lignosulphonate

Calcium oxide (CaO)	7,2%
Complexed Calcium oxide (CaO)	7,2%
Chelating agent: ammonium lignosulphonate	

Radi-Cal is a high-calcium liquid fertilizer, complexed with ammonium lignosulfonates derived from the cellulose extraction process of wood. Unlike other chelating agents, lignosulfonates do not disrupt the structure of plant cell walls during absorption.

Radi-Cal is not affected by the chemical characteristics of the soil water, and its stability is optimal at both acidic and alkaline pH levels.

The product is effective in the treatment and prevention of many physiological disorders caused by calcium deficiency.



Biolivo Plus

Fluid algae extract
containing dark algae

Organic (N) Nitrogen	2%
Organic (C) Carbon biological origin	11%
Organic matter with nominal molecular weight < 50 kDa minimum 30%	

Biolivo Plus is a fluid organic nitrogen fertilizer with added seaweed for nutritional and stimulating action. Thanks to its strong stimulating capacity, it promotes increased growth and enhanced absorption potential of macro and micro-elements.

Furthermore, it balances the plant's hormonal system and ensures rapid growth and improved root and leaf development.

Biolivo Plus stimulates growth by promoting the synthesis and reduction of nitrates in the leaves.



Fulvinal combi

Product with specific action
based on Fulvic Acids

Organic Matter	45 - 48% w/w
Fulvic Acids	35 - 40% w/w
Dry Matter	67 - 472% w/w
Total (N) Nitrogen	1,5 - 2,5% w/w
Organic (N) Nitrogen	1,5 - 2,5% w/w
Potassium oxide (K ₂ O)	3,5 - 4% w/w

Fulvinal Combi is an excellent carrier for foliar fertilization; when applied to the leaves, it also increases chlorophyll production, thereby enhancing oxygen absorption.

Fulvinal Combi acts as a soil amendment and strongly stimulates soil microbial activity.

Fulvinal Combi is a high-quality biostimulant and also an NPK coater, capable of chelating the main nutrients (N, P, K, Mg, Ca, etc.) it is associated with. Moreover, it is compatible with a wide variety of natural extracts and microelements.



Huminal Combi

Product with specific action
Humic extracts from Leonardite

S.S. on wet basis	11%
S.S. on dry matter	62,5%
S.S. humified organic matter in % of organic substance	62,5%
Organic Nitrogen on dry matter	0,6%

Huminal combi when used through the root system, improves the physicochemical characteristics of cultivated soil, enhances the development of the root system of the crops, and increases and improves the utilization of nutrients present in the soil (chelating power).

When used through the leaves:

- it complexifies and conveys the active and nutrient principles with which it is associated;
- stimulates metabolic processes;
- improves resistance to adversities.



Protein Super 11 N

Organic fertilizer based on
Hydrolyzed animal epithelium

Organic (N) Nitrogen	11%
Soluble Organic (N) Nitrogen	11%
Organic (C) Carbon biological origin	40%

Raw materials: hydrolysed proteins

Protein Super 11 N is a soluble powdered organic nitrogen fertilizer, where the organic component consists of peptones, peptides, and amino acids derived from the hydrolysis of protein substances of animal origin. The high concentration of these valuable amino acids ensures rapid and effective absorption, both foliarly and radicularly, promoting and intensifying all biochemical and enzymatic processes. In modern fertilization, regular use of Protein Super 11 N enables uniform vegetative development and an improvement in the quality and quantity of agricultural yields.



Protein Gold 8,5 N

Hydrolyzed animal epithelium

Organic (N) Nitrogen	8,5%
Total (N) Nitrogen	8,5%
Organic (C) Carbon biological origin	29%

Protein Gold is an organic fertilizer consisting of an enzymatically hydrolyzed protein matrix of animal origin, rich in low and medium molecular weight amino acids, peptides, and peptones. The product is particularly active, both foliar and through the roots, in all phenological phases of the crops, due to its remarkable nutrient and biostimulant action. Furthermore, its conveying properties suggest combining it with other NPK nutrients and trace elements, thereby enhancing their absorption and utilization, thereby reducing application doses and costs.



Protein Silver 6,5 N

Fluid flesh
in suspension

Organic (N) Nitrogen	6,5%
Total (N) Nitrogen	6,5%
Organic (C) Carbon biological origin	23,5%

Protein Silver is an organic fertilizer consisting of an enzymatically hydrolyzed protein matrix of animal origin, rich in low and medium molecular weight amino acids, peptides, and peptones.

The product is particularly active, both foliar and through the roots, in all phenological phases of the crops, due to its remarkable nutrient and biostimulant action. Furthermore, its conveying properties suggest combining it with other NPK nutrients and trace elements, enhancing their absorption and utilization, thereby reducing application doses and costs.



Protein Top

Protein hydrolyzate of
Alfalfa plant

Organic (N) Nitrogen	7%
Organic (C) Carbon biological origin	21%
Total amino acids	30%
Free amino acids	27%

Protein Top is a specifically targeted product obtained from enzymatic fermentation of solely plant-based sources, completely water-soluble, with a high and balanced content of free L-amino acids, quickly assimilated and utilized by the plant for the production of proteins, enzymes, phytohormones, sugars, etc.

Regular application of Protein Top allows for uniform vegetative development and an improvement in the quality and quantity of agricultural products, as well as their shelf life.



Hemos 1400

Nitrogen based fertilizer
Dried Blood - Microprilled

Organic (N) Nitrogen	14%
Soluble Organic (N) Nitrogen	14%
Organic (C) Carbon	44%
Raw materials: 100% Dry Blood	

Hemos 1400 is a Microgranular Nitrogenous Organic fertilizer obtained from the processing of bovine blood for the food industry, in compliance with the legislative provisions on food production (HACCP).

Due to the low-temperature production process, the hemoglobin proteins present in Hemos 1400 maintain their native structure unchanged, preserving their specific biological activity.

Hemos 1400 is the most effective organic fertilizer for plant nutrition, with a very high yield (over 90%).



Bioblend

Mixed composted soil improver (ACM) in powder form

Umidità (%)	17 - 25
pH (unità)	7,5 - 8,5
Organic Carbon (C) (% s.s.)	22 - 26
Humic and Fulvic Carbon	9 - 10
Organic Nitrogen (N) (% s.s.)	1,8 - 2,2
Rate (C/N)	12 - 13

Bioblend is a Mixed Composted Amendment (MCA), obtained through a controlled transformation and stabilization process of renewable organic matrices, predominantly of plant origin. These matrices are processed in accordance with hygiene and safety standards and in compliance with national legislation on composting.

The final product is well-balanced in its composition, rich in humic substances, variably endowed with nutrients, hygienically safe, and free from viable seeds and weeds, suitable for use in Organic Agriculture.



Biophos P28

Soft natural phosphate

Phosphoric dioxide (P_2O_5) tot	28%
Phosphoric dioxide (P_2O_5) sol	15%
Calcium oxide (CaO)	38%
Silicon oxide (SiO_2)	10%
Magnesium oxide (MgO)	3%
Iron (Fe)	0,5%

Biophos P28 is an organic fertilizer approved for use in Organic Agriculture, based on soft natural superphosphate.

It is extracted from ancient fossilized marine deposits, mainly composed of corals, bird guano, fish remnants, algae, and other minerals, with a high content of Phosphorus, Calcium, Magnesium, Silicon, and trace elements, without the addition of any chemical substances. The product is finely ground to reach 90% of particles beyond 200 mesh, to increase the root contact surface and enhance the availability of its components.



OrgaNeem 450

**Organic Nitrogen fertilizer
Neem Origin**

Organic (N) Nitrogen	4,5%
Organic (C) Carbon	26%
Organic Matter	47%

OrgaNeem 450 is a formulation based solely on organic plant materials, obtained at the end of the cold-press extraction process of oil from the seeds of the Neem tree, without the addition of any chemicals. OrgaNeem 450 appears as a dark pellet fertilizer with a smooth and uniform surface, characterized by its pungent odor.

The components within it enhance cellular metabolism, resistance to root pests and pathogens, and positively influence the activity of beneficial microorganisms present in the rhizosphere.



Organik 500

Mixture of fertilizers Nitrogenous Organics

Organic (N) Nitrogen	5%
Organic matter	27%
Organic (C) Carbon	16%
Dry matter	95%
Iron (Fe) soluble in water	0,5%
Umidity	5 - 6%

Organik 500 is a exclusively natural organic-based formulation, bio-digested and refined, produced from the residues of Biogas fermentation as the main raw material, without the addition of any chemical substances. The fermentation of the raw material is carried out by the digesting bacteria. Organik 500 appears as a dark Pellet fertilizer, with a smooth and uniform surface, characterized by its Organic scent. Its components enhance cellular metabolism and positively influence the activity of important enzymatic complexes.



Organik 660

Mixture of organic fertilizers NP (Ca 18)

Organic (N) Nitrogen	6%
Phosphoric Dioxide (P_2O_5) tot	6%
Calcium oxide (CaO)	18%
Total (C) Carbon	30%

Raw materials: dried manure and bone meal

Organik 660 is a formulated, exclusively natural organic product. The raw materials consist of bone meal and dried manure. One-third of the nitrogen is derived from dried manure, providing a relatively rapid effect, while two-thirds come from animal protein, offering a more prolonged release. The phosphorus is sourced from bones, ensuring it is free of any potentially contaminating metals, such as cadmium, often found in minerals. The characteristics of Superblend 6-6-0 make it one of the most agronomically efficient NP fertilizers, in line with the latest techniques.



Organik 575

Organik Fertilizer NPK 5-7-5 (Ca 14)

Total (N) Nitrogen	5%
Organic (N) Nitrogen	5%
Phosphoric Dioxide (P_2O_5)	7%
Potassium oxide (K_2O)	5%
Calcium Oxide (CaO)	14%
Organic matter (S.O.)	14%

Organik 5-7-5 is a formulation based solely on natural organic materials. The raw materials, fermented and cold-humidified, consist of meat meal, organic cattle manure, and potassium sulfate extracted from deposits of naturally occurring raw salts.

The characteristics of Organik 5-7-5 make it one of the most agronomically efficient NPK fertilizers, in line with modern theories aimed at environmentally friendly agriculture that ensures profitable production without excesses or deficiencies.



Organik 700

Organic Nitrogen Fertilizer

Total (N) Nitrogen	7,2%
Organic (N) Nitrogen	7,2%
Magnesium oxide (MgO)	0,5%
Organic matter	45%
Amino acids	22%
Humic Acids	15%

Organik 700 is a bio-fermented and refined fertilizer, produced by the bacterial fermentation of renewable organic matrices.

Organik 700 is a fertilizer with high protein content: soya, corn, wheat, without the addition of chemicals.

The final product is well balanced in its composition, rich in free amino acids and humic acids $\geq 37\%$, nitrogen $\geq 7.2\%$, dry organic matter $\geq 45\%$, magnesium oxide 0.5% and traces of microelements, an adequate combination for rapid absorption by the roots.



Organik 805

Fertilizer mixture
Organic NP (Ca 12)

Organic (N) Nitrogen	8%
Potassium oxide (K ₂ O)	5%

Organik 805 is an exclusively organic-based formulation of plant origin, obtained at the end of the cold extraction process of oil from the seeds of black mustard (botanical name *Brassica nigra*), a plant of the Brassicaceae family, without the addition of chemical substances. The components present in it enhance cellular metabolism, resistance to parasites and root pathogens and positively influence the activity of beneficial microorganisms present in the rhizosphere. Ideal as a biological nematocide, it is also a natural repellent for many parasites.



Organik 1050

Fertilizer mixture
Organic NP (Ca 12)

Organic (N) Nitrogen	10%
Phosphoric Dioxide (P ₂ O ₅) tot	5%
Calcium Oxide (CaO)	12%
Total (C) Carbon	37%
Organic matter	63%

Organik 1050 is a naturally sourced formulation based solely on organic materials.

The raw materials consist of dried blood, meat meal, and poultry manure. This combination allows for highly efficient agronomic performance, rarely found in other commercial fertilizers.

Thanks to this particular formulation, nitrogen is made available gradually in three stages: immediate effect from the dried blood, medium release from the meat meal, and extended release from the poultry manure.



Organik 1010

Fertilizer mixture
Organic NP (Ca 12)

Organic (N) Nitrogen	10%
Phosphoric Dioxide (P ₂ O ₅) tot	10%
Calcium Oxide (CaO)	12%
Total (C) Carbon	37%
Organic matter	63%

Organik 1010 is a naturally sourced formulation based solely on organic materials.

The raw materials consist of dried blood, meat meal, and poultry manure. This combination allows for highly efficient agronomic performance, rarely found in other commercial fertilizers.

Thanks to this particular formulation, nitrogen is made available gradually in three stages: immediate effect from the dried blood, medium release from the meat meal, and extended release from the poultry manure.




Organik Stal

Mixture of
NP Organic Fertilizers

Organic (N) Nitrogen	3,5%
Phosphoric Dioxide (P ₂ O ₅)	4%
Organic (C) Carbon	29%
Organic Matter	50%

Organik Stal is a formulation based solely on natural organic materials. The raw materials consist of various manures, compost, and poultry manure.

This combination allows for highly efficient agronomic performance, rarely found in other commercial fertilizers. By biologically activating the microflora and microfauna of the soil, Organik Stal enriches and regenerates deficient soils with organic matter. It provides crops with significant amounts of organic nitrogen, both for immediate impact and for extended release.




Organik NP 17-25

**Organo-Mineral fertilizer
NP 17-25**

Total (N) Nitrogen	17%
Organic (N) Nitrogen	2%
Ammonia (N) Nitrogen	15%
Phosphoric Dioxide (P ₂ O ₅)	25%
Iron (Fe) soluble in water	0,02%
Organic Carbon (C)	7,5%

Organik NP 17-25 is a formulated, exclusively natural organic product. The raw materials consist of bone meal and dried manure. One-third of the nitrogen is derived from dried manure, providing a relatively rapid effect, while two-thirds come from animal protein, offering a more prolonged release. The phosphorus is sourced from bones, ensuring it is free of any potentially contaminating metals, such as cadmium, often found in minerals. The characteristics of Superblend 17-25 make it one of the most agronomically efficient NP fertilizers.




Organik NP 15-20

**Organo-Mineral Fertilizer
NP 15-20**

Total (N) Nitrogen	15%
Organic (N) Nitrogen	2%
Ammonia (N) Nitrogen	13%
Phosphoric Dioxide (P ₂ O ₅)	20%
Iron (Fe) soluble in water	0,03%
Organic Carbon (C)	7,5%

Organik NP 15-20 is a formulated, exclusively natural organic product. The raw materials consist of bone meal and dried manure. One-third of the nitrogen is derived from dried manure, providing a relatively rapid effect, while two-thirds come from animal protein, offering a more prolonged release. The phosphorus is sourced from bones, ensuring it is free of any potentially contaminating metals, such as cadmium, often found in minerals. The characteristics of Superblend 15-20 make it one of the most agronomically efficient NP fertilizers.




Organik Umic 45

Product with specific action
Humic extracts from Leonardite

Organic Matter (S.O.)	65%
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Humic acids are natural substances that form as a result of the microbial biodegradation of organic matter (vegetable or animal). They are commonly found in soil and water and are also present in humus (the natural fertilizer that forms in the soil as a result of the biodegradation of leaves, logs, and roots in the presence of a certain degree of moisture).

Organik Umic 45 is an organic compound based on Humic Acids, containing 45% of its weight in granular form.



Alfaplus

Nitrogenous Organo-Mineral Fertilizer
NPK 16-0-0 + Fe

Total (N) Nitrogen	16%
Organic (N) Nitrogen	2%
Ammonia (N) Nitrogen	14%
Organic (C) Carbon	16%
Iron (Fe) soluble in water	0,02%
Amino acids	12%
Humic Acids	8%

Alfaplus is a bio-fermented and refined fertilizer, produced through the bacterial fermentation of renewable organic matrices, with a high protein content such as soy, corn, and wheat, without the addition of chemical substances. The final product is well-balanced in its composition, rich in free amino acids and humic acids ≥ 20%, nitrogen ≥ 16%, dry organic matter ≥ 16%, iron sulfide, and traces of microelements, a suitable combination for rapid absorption by the roots. Alfaplus appears as a dark granular fertilizer with a smooth and uniform surface.

Monitoring Traps



Trap selection is an important component in support of any monitoring program of Mating Disruption.

Trap and Kill

Olive Fruit Fly
Bactrocera oleae

Spotted Wing Drosophila
Drosophila suzukii

Mediterranean Fruit Fly
Ceratitis capitata

Fruit tree growing

Pathogen	Trap
Large Fruit-Tree Tortrix <i>Archips podanus</i>	Traptest
Summer Fruit Tortrix <i>Adoxophyes orana</i>	Scaletrap
Codling Moth <i>Cydia pomonella</i>	Pomotrap Ecodian
Apple Leaf Miner <i>Leucoptera malifoliella</i>	Traptest
White Peach Scale <i>Pseudaulacaspis pentagona</i>	Scaletrap
San José Scale <i>Comstockaspis perniciosus</i>	Scaletrap
Citrus Mealybug <i>Planococcus citri</i>	Scaletrap
Grape Tortrix <i>Argyrotaenia pulchellana</i>	Traptest
Leaf Miner of Pomoideae <i>Phyllonorycter</i> spp.	Traptest
European Cherry Fruit Fly <i>Rhagoletis cerasi</i>	Cromotrap
Walnut Husk Fly <i>Rhagoletis completa</i>	Cromotrap
Quince Moth <i>Euzophera bigella</i>	Traptest
Leche's Twist Moth <i>Ptycoloma lecheana</i>	Traptest
Leopard Moth <i>Zeuzera pyrina</i>	Mastrap L without wings
Peach Twig Borer <i>Anarsia lineatella</i>	Traptest Ecodian
Oriental Fruit Moth <i>Cydia molesta</i>	Traptest Ecodian
Chestnut Tortrix <i>Cydia splendana</i>	Traptest Ecodian
Plum Fruit Moth <i>Cydia funebrana</i>	Traptest



Grapevine growing

Pathogen	Trap
Vine Moth <i>Eupoecilia ambiguella</i>	Traptest
Vine Mealybug <i>Planococcus ficus</i>	Scaletrap
Honeydew Moth <i>Cryptoblabes gnidiella</i>	Traptest
European Grapevine Moth <i>Lobesia botrana</i>	Traptest

Olive growing

Pathogen	Trap
Jasmine Moth <i>Palpita unionalis</i>	Traptest
Olive Fruit Fly <i>Bactrocera (Dacus) oleae</i>	Traptest or Dacotrap
Olive Moth <i>Prays oleae</i>	Traptest

Mating Disruption



Mating disruption controls certain insect pests by introducing artificial stimuli that prevent mating and block the reproductive cycle; it's very important to control its efficiency using Monitoring traps.



Checkmate Puffer (Aerosol Pheromone release technology for pests control)		
Pathogen	Crops	Puffer
Codling Moth <i>Cydia pomonella</i>	Pome fruit and Walnut 2 - 3 diffusers/ha	CM
European Grapevine Moth <i>Lobesia botrana</i>	Grapevine 2,5 diffusers/ha	LB
Oriental Fruit Moth <i>Cydia molesta</i> Plum Fruit Moth <i>Cydia funebrana</i>	Peach and Plum 2 - 3 diffusers/ha	OFM



Checkmate Dispenser (Membrane release system or Flow dispenser for pests control)		
Pathogen	Crops	Checkmate
European Grapevine Moth <i>Lobesia botrana</i>	Vite • 75ml/ha 3 weeks action • 110ml/ha 4 weeks action	Subvert
Vine Mealybug <i>Planococcus ficus</i>	Grapevine 620 diffusers/ha	VMB - XL
Peach Twig Borer <i>Anarsia lineatella</i>	Stone fruit 375 diffusers/ha	PTB - XL
Oriental Fruit Moth <i>Cydia molesta</i> Plum Fruit Moth <i>Cydia funebrana</i> Peach Twig Borer <i>Anarsia lineatella</i>	Stone fruit 375 diffusers/ha	SF - XL



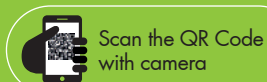
Shin-Etsu Dispenser (Controlled release containing pheromones for pests control)		
Pathogen	Crops	Isonet
Tomato leafminer <i>Tuta absoluta</i>	Tomato 1000 dispenser/ha	T
European Grapevine Moth <i>Lobesia botrana</i>	Grapevine 200-300 diffusers/ha	L TT
Leopard Moth <i>Zeuzera pyrina</i>	All crops 300 diffusers/ha	Z
Oriental Fruit Moth <i>Cydia molesta</i> Plum Fruit Moth <i>Cydia funebrana</i>	Pome and Stone Fruit 500-600 diffusers/ha	Isomate OFM rosso

Complete pheromones list is available on our website shopping.agrimag.it



Labels and Safety data sheets

always on your smartphone



Scan the QR Code
with camera



Download labels and
Safety data sheets

Find out how to download **labels**, **Safety data sheets** and the entire obligatory documentation about REACH regulation, in line with what is expected from the ministerial circular on the new regulation CLP.

Alternatively visit the link: <https://shopping.agrimag.it/it/etichette-sds>



Rules for using products for plant care and as adjuvants

Professional Workers, before to buy a product, have to verify that it's actually able to solve the problem detected on crops, the authorization it's still active and has not been revoked. Finally they must check if the label is updated.

Revoked products can be sold for a limited period to the end-user, who consequently has a limited period to use it.



How to be prepared to treat in safe

- Warning: these products have to be use only in agriculture. Any other use is dangerous.
- Choose an authorized product, allowed for the disease and for the culture.
- Read carefully label, warnings, dispositions, prescriptions and follow them closely.
- Be sure to be have all the necessary and the equipment ready to prepare the treatment.
- Wear the personal protective equipments reported on the label.
- Don't smoke and don't eat during the treatment.
- Don't contaminate other crops, food or beverage or waterways.
- Avoid to breathe vapors or dust and don't operate against the wind.
- Keep the package tightly closed.
- Limit losses as much as possible.
- Do not leave the equipment unattended and/or the product packaging, both closed and open.
- After manipulation or in case of contamination, wash yourself carefully with soap and water.
- After the use make packages unusable and harmless.
- In case of need seek medical attention showing the product's label and safety data sheet.
- Prepare only the necessary quantity for the area to treat.
- After the treatment clean carefully the equipment used and dispose waste water without environmental contamination.



Treatments Register

Buyers and users store treatment register realized during the growing season and for the previous three years.

Treatment register means a register where to report chronologically all the treatments realized on the crops, or alternatively, different registers, one for each crop.

Registers must show treatments and product used, before harvest or within thirty days to the harvest.



PPE - Personal Protective Equipment

The use of pesticides obliges the use of personal protective equipment.

They protect skin, respiratory and digestive system, avoiding harmful effects caused by the use of plant protective products. Main personal protective equipments are: gloves, respirators, safety glasses, boots and cotton coveralls.



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