



www.gapfertilizzanti.com



Gap Chemical Italia is an Italian company producing innovative fertilizers. Formulates fertilizers and specialties for plant nutrition, offering its customers a range of products with high technological content, capable of improving the quality and quantity of production, in compliance with the principles of environmental sustainability.

Thanks to the experience gained in over 20 years of activity in the sector, thanks to the help of suppliers of highly pure raw materials and thanks to the collaboration of agronomists, chemists and other highly qualified professionals, the company is able to supply a complete range and effective of biostimulants, specialized fertilizers and resistance inducers, for all the phenological phases of any crop.

Thanks to an intense research activity in recent years, Gap Chemical Italia focuses on environmental problems, managing to develop a range of "BIOACTIVATORS" and "RESISTANCE INDUCTORS" capable of developing the endogenous defenses of the plant and consequently, significantly reduce the use of pesticides, which are often used inappropriately and excessively.

Furthermore, thanks to constant planning and targeted strategies, Gap Chemical Italia has managed to grow, operating not only on the national market but also moving abroad, providing its customers with commercial and technical support.





LOOKING FORWARD

Fertigants NPK powders complexed with humic acids and lignosulphonates born from a careful search for highly pure raw materials free of impurities and heavy metals. Specially designed to be used in protected crops where there is a need to provide nutritional substances capable of continuous and stable productive growth. Entirely soluble and residue-free to be used in highly technological systems such as hydroponic ones. EDTA and EDHSA chelated microelements in addition improve the agronomic yield and avoid the deficiency in all the phenological phases. The addition of humic acids or lignosulphonate complexes and guarantees a biostimulating effect in use. Diversity of components for use in all vegetative phases.

Purple *LINE*

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Stimulants and biostimulants to satisfy all the nutritional needs of the different crops in the world. Born from research in the pharmaceutical and food fields with innovative solutions and processes. Diversity in formulations to be used in crops or soils to regulate and improve all the physiological processes of crops making them more efficient. Diversity to improve the efficiency of plant metabolism to increase yields. Increased plant resistance to abiotic and environmental stress. The range of Purple stimulants designed for all needs.

Yellow *LINE*

21

Invigorating, products of natural origin, not attributable to the category of fertilizers, capable of improving the resistance of plants against harmful organisms, protecting against damage caused by parasites. They act with a dual action: they activate and enhance the natural defenses of plants against leaf and root phytopathogenic agents, developing natural mechanisms; they activate specific attractive volatile metabolisms. They protect plants from damage not caused by parasites, triggering mechanisms at the molecular level aimed at resistance and adaptation to abiotic stresses. Periodic and programmed use considerably reduces the use of agropharmaceuticals with a significant eco-sustainable development of the agricultural system.

Green *LINE*

29

BIO Fertilizer allowed in organic farming duly registered to be used in all crop types. Study and research to be able to meet the ever-growing needs of an ever-increasing world demand for green formulations for eco-sustainable agricultural development with low environmental impact. Formulated to be used not only by those who produce with controlled and organic protocols, but also for classic traditional productions. GAP chemical has always been a promoter of studies and research in the agronomic field to develop advanced products and formulations to allow low-dose and environmentally friendly use.

Blu *LINE*

41

Liquid fertilizers specifically formulated for each individual crop.

High quality, high in nutrients balanced according to each single and specific culture. Reduction of dosages, agronomic efficacy, ease of use, greater stability and capacity for foliar and root penetration.

Mn

Cu

**GAP PRODUCES TRADITIONAL
COMMERCIAL FORMULATIONS
BUT IT IS ALSO ABLE TO
PROVIDE CUSTOMIZED
FORMULATIONS ACCORDING TO
THE PARTICULAR REQUEST.**

N

P

K

Mg

Red *LINE*

NPK powder fertilizers complexed with humic acids and lignosulphonates born from a careful research of highly pure raw materials free of impurities and heavy metals. Specially designed to be used in protected crops where there is a need to provide nutritional substances capable of continuous and stable productive growth. Entirely soluble and residue-free to be used in highly technological systems such as hydroponic ones. EDTA and EDHSA chelated microelements in addition improve the agronomic yield and avoid the deficiency in all the phenological phases. The addition of humic acids or lignosulphonate complexes and guarantees a biostimulating effect in use. Diversity of components for use in all vegetative phases.

NPK 20-20-20

NPK 9-18-27

NPK 8-24-24

NPK 10-50-10

Npk 3-38-38

Npk 12-24-24

Npk 31-11-11

Npk 20-5-20

Npk 15-5-30

Npk 13-43-13

Npk 21-7-21

Npk 20-5-5

Npk 12-20-30

Npk 10-20-30

Npk 11-22-22

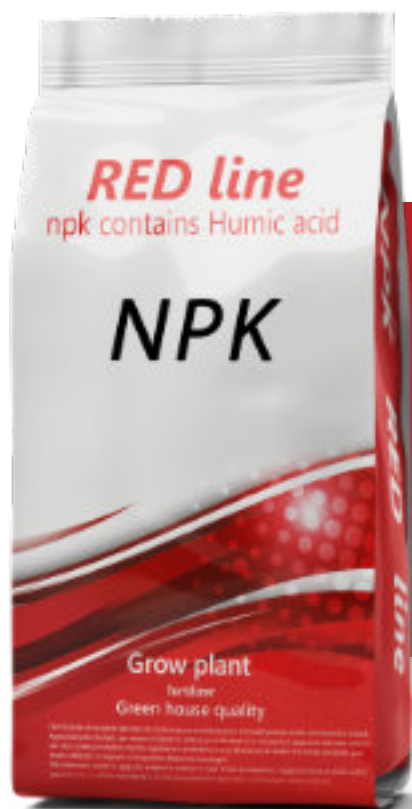
Water soluble *RED Line*

NPK complexed with humic acids and lignosulfonates

The Red Line water-soluble products designed for all professional solutions and for all types of crops

Suitable for all phenological phases of the various crops:

- Flowering
- Transplant
- Fruit enlargement
- Maturation
- Post-harvest



*THE PROPERTIES
OF LIGIN*

SEQUESTRANT
SURFACANT
BINDER
STABILIZER

N is the chemical symbol for nitrogen. Nitrogen performs many functions in plants and is especially important for their growth and regeneration. If there is a lack of nitrogen, the plants will not grow well and the harvest will be less abundant. If, on the other hand, it is present in excess, this entails several disadvantages: there will be an early flowering and ripening of the fruits, a reduced lignification of the tissues which will make the plant more fragile and diseases or parasite infestations may occur more easily, to the detriment of the harvest .

P represents phosphorus and is one of the main macro-elements. Phosphorus is used to transmit and store chemical energy and for root formation. It is also essential for photosynthesis. Phosphorus is therefore useful right from the start, since it favors the seed, for example, at the time of seed formation. But it is also necessary later, in the flowering phase. A lack of phosphorus results in plants remaining small and brittle and stems thin. Furthermore, the leaves change color, the roots struggle to grow and flowering is delayed. An excess of phosphorus (very rare) instead damages the plant indirectly, since it can cause induced deficiencies of other micronutrients.

K is the symbol of potassium, the third essential nutrient. This substance helps the plant to absorb water and is therefore responsible for the water balance of the plant. Thanks to it, the plant develops strong tissues and good resistance. It also promotes resistance to diseases and sudden changes in extreme temperatures, cold, etc. In the event of a potassium deficiency, the plant weakens and root formation is impaired. Furthermore, in periods of drought the plant tends to perspire more and absorbs less water. An excess of potassium causes too high a salt concentration and an induced deficiency of positive micronutrients such as magnesium.

In addition to these three main nutrients which are present in greater quantities in NPK fertilizers, to grow well and form biomass, plants also need other important elements such as calcium, magnesium and sulfur and trace elements (copper, zinc, iron, etc.) which are present in smaller quantities in this type of fertilizer.

Our NPKs, in addition to being obtained with raw materials of the highest quality and solubility, contain EDTA chelated micro-elements, EDDHA chelated iron, moreover they are complexed with HUMIC ACIDS and AMMONIUM LIGNIN SULPHONATE capable of reducing the PH in the mother solution. Lignin is a natural polymer of wood which, after being subjected to a sulphonation action, is solubilized as a calcium salt of lignosulphonic acid in order to be soluble in water. The actions of the lignosulphonates are essentially carried out in the presence of aqueous environments or polar.

**GAP PRODUCES TRADITIONAL COMMERCIAL
FORMULATIONS
BUT IT IS ALSO ABLE TO PROVIDE CUSTOMIZED
FORMULATIONS ACCORDING TO THE PARTICULAR
REQUEST**

A composite image showing a hand holding a seedling over soil, with a water droplet falling. The image is split into two vertical panels. The left panel shows a hand holding a seedling over soil, with a water droplet falling. The right panel shows a seedling growing in soil. The background is a gradient of purple and blue.

**IMPROVEMENT OF RESISTANCE
TO ABIOTIC STRESS**

**STIMULATION OF THE
ABSORPTION AND USE OF
NUTRIENTS**

**IMPROVEMENT OF THE
QUALITATIVE AND QUANTITATIVE
PROFILES OF THE CROPS**

Purple *LINE*

Stimulants and biostimulants to satisfy all the nutritional needs of the different crops.

Born from research in the pharmaceutical and food fields with innovative solutions and processes.

Our SFM technology makes it possible to obtain biostimulants and resistance inducers with high concentrations of specific amino acids suitable for use for every single need.

Radical bio	12
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Rippen	18



Radical bio

Allowed in
Biological Agriculture



Fluid organic nitrogen fertilizer from fluid vinasse from fermentation vegetable substances

Radical bio, prodotto di origine totalmente organica, derivato dalla fermentazione enzimatica di biomasse vegetali a bassissime temperature.

The particular production technique at low temperatures and the use of particular enzymes, coenzymes and yeasts allow to obtain a product full of essential amino acids with a high content of SALICYLIC ACID (CARBOXYLIC) considered a natural hormone to stimulate the natural development of the root system and simultaneously capable of activating the production of enzymes of the PATHOGENESIS family (PRP) which determine the acquired systemic resistance (SAR. Systematic Acquisited Reply).

Radical bio is a formulation whose use can be allowed from the early stages for a rapid overcoming of transplant stress ensuring optimal engraftment of the seedlings. Radical bio in all those stages of environmental and production stress.

The healing properties of salicylic acid have been known since ancient times [, so much so that the substance was extracted from the willow plant, from which the name derives. Since the nineteenth century extracts of salicin, a glycoside formed by glucose and salicylic acid, have been used in medicine as an anti-inflammatory in the treatment of rheumatoid arthritis. Subsequently, numerous derivatives were synthesized, which constitute the class of salicylates, of which the best known is acetylsalicylic acid (Aspirin).

Salicylic acid as a plant hormone stimulates cyanide-resistant respiration (alternative oxidase) especially in plants of agricultural interest.

Its activation involves the production of heat which releases volatile substances such as indoles and/or polyamines for entomophilous pollination, furthermore it is responsible for the resistance to phytopathogens by inducing the production of enzymes of the pathogenesis family, which determine the acquired systemic resistance.



COMPOSITION	%
Organic nitrogen (N) from enzymatic hydrolysis of fruit and cereals at low temperatures	3%
Organic phosphorus	2 %
Organic Potassium	2 %
Organic carbon (C)	20 %
Salicylic acid	5 %

TECHNICAL FEATURES	
Solubility in water	Fully soluble
Ph in solution	< 5
Residues	0.001%
Density	1.25/1.35
Free aminoacids	30 ppm
Color	Dark brown tending to black
Odor	Characteristic and intense

APPLICATION	FOLIAR FERTIGATION
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COLTURE	PHASE	DOSES
Greenhouse vegetables	from transplanting to fruit growth	kg 10\ha
Horticultural and ornamental	from transplanting to fruit growth	Kg 40\ha 300 gr/100 lt 250 gr/10lt0
Fruit trees	from the awakening phase to fruit growth	Kg 60/ha
Vite	from the awakening phase to fruit growth	kg 60/ha 250 gr 100/ lt



Biostil

Allowed in
Biological Agriculture



Fluid organic nitrogen
fertilizer Fluid fleshing in
suspension

BIOSTIL is an organic fertilizer made up of an enzymatic hydrolysed matrix from animal epithelium characterized by a high concentration of polysaccharides and free amino acids, polypeptides and peptides.

The low temperature production technique with the use of enzymes, coenzymes and yeasts allow to keep the amino chains unaltered and also favor the concentration of proteins and vitamins. The particular extraction technique allows to obtain a product with a high concentration of TRYPTOPHAN and VITAMINS of group B capable of inducing a stimulating effect in the lengthening of the bunch in the tomato, in the vine and to help the plant in the fruit enlargement phase.

It is recommended to use it already in the first phase of flowering, thus helping the plant to develop all those cellular duplication processes suitable for greater development, including production.

The functions of amino acids

What are the effects that are favored by the presence of amino acids? Let's find out together! They promote the absorption of nutrients: if a plant has a regular supply of amino acids, it will be able to absorb microelements more easily. This process, which takes the name of chelation, starts thanks to L-glutamine and L-glycine. Opening of the stomata: these allow the leaves to be able to breathe and to protect themselves under conditions of stress.

It is the glutamic acid that favors its opening. They favor the development of hormones: the amino acids lead the plant to develop its vegetable hormones. Among these we mention auxins, flowering hormones and ethylene. For example, auxin activates growth processes when we are in the vegetative phase.

Soil improvement: they also have the ability to increase the microbial flora if applied directly to the soil. Resistance to stress: the plant is often exposed to the wrong level of humidity and temperature. But also to parasites or excessive pruning. All of this would slow down its development. Thanks to the administration of amino acids instead, the level of protection and resistance to stress increases. Pyroline is a well-known anti-stress amino acid and joins alanine which fights oxygen deficiency.

Fruit production: yes, these organic molecules accelerate and intensify both the pollination processes and above all the fruiting phase of the plant. They balance the bacterial flora: their presence in the substrate helps the formation of a microenvironment which facilitates the absorption of nutrients in the area around the roots.

TRYPTOPHAN is a biochemical precursor of auxins. Fermentation product of serine and indole using bacteria such as bacillus subtilis, corynebacterium glutamicum is a strong natural antibacterial and anti viral thanks to the presence of bacilin.



COMPOSITION	%
Organic Nitrogen (N). by enzymatic hydrolysis of animal proteins	da 3% a 5%
Organic carbon (C)	30%

TECHNICAL FEATURES	
Solubility in water	Fully soluble
Ph in solution	< 5
Residues	0.001%
Density	1.25/1.35
Free aminoacids	40 ppm
Color	Sienna tending to yellow
Odor	Characteristic and intense

APPLICATIONS	FOLIAR FERTIGATION
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COLTURE	DOSES
TOMATO	150 gr every 100 lt/water - 5Kg /ha per hectare
EGGPLANT	150 gr every 100 l/water - 5 kg ha
FLORAL	200 gr every 100 l/water - 5Kg ha
HORTICULTURAL	500 gr every 1000 lt/water - 5Kg ha
FRUIT	400 gr every 100 l/water - 5Kg ha
INTENSIVE	400 gr every 100 l/water - 5Kg ha



Nemastop

Allowed in
Biological Agriculture



Fluid organic nitrogen fertilizer
Borlanda fluida-Borlanda from
yeasts

Nemastop is an organic fertilizer derived from the residual treatment of re-fermented molasses through microbial treatment at low temperatures.

This allows to obtain an organic fertilizer rich in yeasts and useful bacteria capable of developing the plant's endocrine defenses.

In particular, Nemastop is rich in yeasts and tannins capable of developing natural defenses against many pathogens harmful to crops and above all against soil parasites.

Nemastop was born from the need to develop new methodologies based on the use of natural agents capable of promoting resistance by reducing the use of phytosanitary products. Nemastop is rich in plant extracts including in particular garlic extract and above all chestnut TANNIN, the first antibacterial and repellent the second natural insecticide.



COMPOSITION	%
Water soluble organic nitrogen (N).	1,5%
Potassium oxide (K ₂ O) soluble in water	4 %
Organic carbon (C)	10 %

TECHNICAL FEATURES	
Solubility in water	Fully soluble
Ph in solution	< 5
Residues	0.001%
Density	1.25/1.35
Free aminoacids	30 ppm
Color	Dark brown tending to black
Odor	Characteristic and intense

APPLICATION	FOLIAR FERTIGATION
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COLTURE	PHASE	DOSES
Greenhouse vegetables	from transplanting to fruit growth	kg 10\ha
Horticultura l and ornamental	from transplanting to fruit growth	Kg 40\ha 300 gr/100 lt 250 gr/10lt0
Fruit trees	from the awakening phase to fruit growth	Kg 60/ha
Vite	from the awakening phase to fruit growth	kg 60/ha 250 gr 100/ lt



Algap

Allowed in
Biological Agriculture



Biostimulant
Fluid extract of yeast containing brown algae

Algap is a specific action product with a broad biostimulating activity obtained from cold extraction of algae genus *Ascophilyum nodosus*.

Recommended in all types of application especially in phases of environmental stress and growth. The particular cold extraction produces a seaweed cream full of natural stimulants such as betaines and cytokinins. The high presence of alginate helps to convey all those elements present as biostimulants.

Increased yields, greater resistance to pathologies, protection against frost, better pollination, increased root system.

COMPOSITIONS	%
Organic nitrogen (N) of biological origin	da 1%
Organic carbon (C) of biological origin	10%
Organic substance with nominal molecular weight <50% K1a minimum 30%	

FERTIGATION	FOLIAR
from 5kg/ha to 10 kg/ha with repeated applications every 2 weeks.	100 gr to 300 gr for 100 liters of water. For use in flowering, use 200 g for every 100 liters of water. In phases of stress it is possible to use it up to 4





Rippen

Rippen is an organo-mineral fertilizer made up of very pure solid raw materials solubilized by hydrolysis with a highly pure organic matrix.

This procedure leads to obtaining a final product capable of increasing and accelerating all those ripening and coloring processes of the fruits of any type of crop.

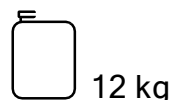
Increased brix and color.

COMPOSITION	%
Total nitrogen (N)	7%
Nitrogen (N) nitric	5 %
Organic Nitrogen (N).	2 %
Potassium Oxide (K ₂ O)	25 %
Organic carbon (C)	8 %

COMPONENTS
Potassium nitrate
Protein hydrolyzate

COLTURE	FERTIGATION	FOLIAR
Horticultural	kg 20/ha	350 g of leaves every 100 liters of water
Vite	20 gr a pianta	350 g of leaves every 100 liters of water
Fruit bearing	30 gr pianta	350 g of leaves every 100 liters of water
It is compatible with all mixes, even with pesticides.		

Packs



A hand is shown holding a small green seedling in soil. The image is overlaid with a semi-transparent green filter. A diagonal line splits the image, with the top-left portion being a solid green color and the bottom-right portion showing the original image. The text is white and positioned on the green background.

**ACTIVATE AND ENHANCE THE
NATURAL DEFENSES OF PLANTS
AGAINST FOLIAR AND ROOT**

**PHYTOPATHOGENIC AGENTS,
DEVELOPING NATURAL
MECHANISMS**

**ACTIVATE SPECIFIC ATTRACTIVE
VOLATILE METABOLISM**

**PROTECT PLANTS FROM DAMAGE
NOT CAUSED BY PARASITES,**

**TRIGGERING MECHANISMS AT THE
MOLECULAR LEVEL AIMED AT
RESISTANCE AND ADAPTATION TO
ABIOTIC STRESSES**

Yellow *LINE*

Invigorating, products of natural origin, not ascribable to the category of fertilizers, capable of improving the resistance of plants against harmful organisms, protecting against damage caused by parasites.

Periodic and programmed use considerably reduces the use of agropharmaceuticals with a significant eco-sustainable development of the agricultural system.

Hoxigen	22
Aragna	23
Kube Kalium	24
Propolis	25
Sprint	26



Hoxigen

Oxygenating and sanitizing product for all hydroponic systems.

It enriches hydroponic systems with oxygen and simultaneously sanitizes all systems.

It can also be used in normal fertigation to add oxygen to the stock solution.

Oxygenating and sanitizing product for all hydroponic systems. It enriches hydroponic systems with oxygen and simultaneously sanitizes all systems.

It can also be used in normal fertigation to add oxygen to the stock solution.

COMPOSITION	%
Peroxide acids	15%

DOSES AND METHODS	
Sanitizer of irrigation systems	da 1,5 a 2 lt m ³
Sanitizing and oxygenating substrates and soils in the absence of crops	da 6 a 9 lt/ha
Sanitizing foliar applications	da 500gr a 800/hl



Aragna

Allowed in
Biological Agriculture

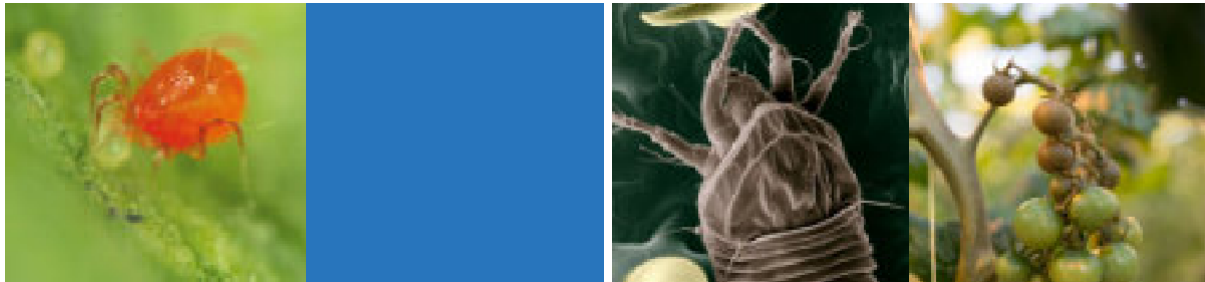


ORGANIC PRODUCT EFFECTIVE AGAINST ARACHNIDS

Aragna is obtained from the cold pressing of soybeans. Thanks to its content in polyunsaturated fatty acids, it is able to activate and improve the natural defenses of plants against biotic and abiotic alterations.

The anti-perspirant and film-forming action reduces water loss from plant tissues, improves vegetation wetting and reduces the activity and movement of soft-bodied insects, in which it causes dehydration.

The use of SOY OIL promotes greater effectiveness of the treatments, moreover it leaves no residue on plants intended for direct consumption (fruit, herbs and vegetables) and is completely compatible with the environment and beneficial insects.



COMPOSITION	%
Edible soybean oil	100%

COLTURE	DOSES
Fruit-growing Horticultural Flower-growing Ornamental Extensive Meadows Sports fields	600-700ml/100 liters of water.

Packs



6 kg



Kube Kalium

Simple mineral fertilizer fluid potassium solution of potassium salts B.T.C.

KUBE KALIUM It is a product based on chelated potassium in microencapsulated form, produced through particular patented procedures.

Suitable for all kinds of plants: fruit trees, vegetables, garden, greenhouse.

Safe for people and pets with no residue.

The constant use of KUBE in preventive form right from the initial stages considerably reduces the consumption of plant protection products with a consequent increase in production.

It does not require any day of deficiency because it is not a pesticide and does not interact with useful insects (e.g. BOMBLES).

Also recommended for an intake of the element potassium in all those cases in which there is a lack of this element.

COMPOSITION	%
Potassium Oxide (K ₂ O) soluble in water with low chlorine content	10%

DOSES AND METHODS
Dilute 500 g of Kube Kalium in 100 liters of water. Apply either early in the morning or late in the day, avoiding the hottest hours. The product can be used for all types of protected crops.
Tomato, aubergine, courgette: Use up to 1 kg x 100 liters of water when there are copious infestations
It is compatible with all mixes, even with pesticides.



Propolis

Allowed in
Biological Agriculture



PROPOLIS EXTRACT
Strengtheners and enhancers of plant resistance

Propolis is a natural product extracted from propolis containing vitamins and flavonoids. The aqueous fraction in order to preserve the specific characteristics of the product intact.

The proline contained performs healing, stimulating and attractive functions towards pollinating insects. Improves fruit resistance to harvesting and post shelf life.

It has a marked protective action against all those pathogenic and bacterial agents. It has an excellent synergistic action, if used with organic sulphur, copper salts and sodium Siligel.

COMPOSITION	%
Propolis extract	
Content in flavonoids, expressed in galangin at the time of packaging	25 mg/l
Weight/volume ratio of propolis on the finished product	25 mg/l

DOSES AND METHODS	%
Foliar application	from 150 gr to 200 gr for 100 liters of water.
For use in flowering	200 gr every 100 liters of water.
In phases of stress	up to 250 g
Propolis can be mixed with any product but carry out mixability tests.	

Packs



1 kg



6 kg



SPRINT

EC fertilizer
Calcium Nitrate Solution with Magnesium (MgO)

Sprint is an organo-mineral fertilizer derived from the hydrolysis of very pure urea without biuret with flesh rich in amino acids.

This particular synthesis produces a final product capable of acting on the processes of cell division and multiplication of cell division.

The high purity of nitrogen together with the components and amino acids of the organic matrix they promote the development of the vegetative tissues and the thickening of the fruits, guaranteeing a greater agricultural production with an increase in the Brix degree of the fruits produced.

COMPOSITION	%
Total nitrogen (N).	17%
Nitrogen (N) urea	15 %
Organic Nitrogen (N)	2 %
Organic carbon (C)	8 %
Components: Urea, protein hydrolysed epithelium	

DOSES AND METHODS


Dilute 200\250 gr in 100 liters of water.

The product can be used for all types of protected crops. Tomato, aubergine, courgette. Vines, tree crops, fruit trees and nurseries



GAP

Chemical italia srls

A young child with light hair is smiling and holding a bunch of carrots. The background is a lush green field. In the foreground, a wooden basket is filled with fresh vegetables, including red radishes and a purple eggplant. The entire image has a green overlay, and the text is centered in white.

**GAP CHEMICAL HAS ALWAYS BEEN
PROMOTER OF STUDIES AND
RESEARCH IN THE AGRONOMICAL
FIELD TO DEVELOP ADVANCED
PRODUCTS AND FORMULATIONS TO
ALLOW THE USE OF LOW DOSAGES
AND RESPECT FOR THE
ENVIRONMENT.**



Green *LINE*

BIO fertilizers allowed in organic farming duly registered to be used in all types of crops. Study and research to be able to meet the ever-growing needs of an ever-increasing world demand for green formulations for eco-sustainable agricultural development with low environmental impact.

Formulated to be used not only by those who produce with controlled and organic protocols, but also for classic traditional productions.

AVAST	30
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AVAST

Allowed in
Biological Agriculture



Fluid organic nitrogen fertilizer Agri-
food vinasse of fruit and cereals

AVAST product of totally organic origin derived from the enzymatic fermentation of vegetable biomass at very low temperatures.

The particular production technique at low temperatures and the use of particular enzymes, coenzymes and yeasts, allow to obtain a product loaded with essential amino acids with a BACILISIN content considered a natural peptide antibiotic capable of stimulating the production of enzymes of the PATHOGENESIS family (PRP) which determine the acquired systematic resistance (SAR. Systematic Acquisited Reply).

Avast is a formulation whose use can be allowed from the early stages for a rapid development of the endogenous defenses of plants.

COMPOSITION	%
Total nitrogen (N).	3%
Organic Nitrogen (N).	3 %
Potassium oxide (K ₂ O) soluble in water	2 %
Organic carbon (C) of biological origin	20 %

COLTURE	FOLIAR
Horticultural	from 100 to 200 gr every 100 lt
Fruit bearing	from 150 to 250 gr every 100 lt
Floriculture	from 100 to 250 gr every 100 lt





Bio3

Allowed in
Biological Agriculture



Fluid organic nitrogen
fertilizer Fluid vinasse

Bio3 is an organic fertilizer derived from the residual treatment of re-fermented molasses through microbial treatment at low temperatures.

This allows to obtain an organic fertilizer rich in yeasts and useful bacteria capable of developing the plant's endocrine defenses.

In particular, Bio3 is rich in yeasts belonging to the *SACCHAROMYCES CEREVISIAE* family, main antagonists of many pathogenic fungi harmful to crops (such as powdery mildew, fusarium, sclerotin and rhizoctonia).

Bio3 was born from the need to develop new methodologies based on the use of natural agents capable of promoting resistance by reducing the use of plant protection products.

COMPOSITION	%
Total nitrogen (N).	1,5%
Water soluble organic nitrogen (N).	1,5 %
Potassium Oxide (K ₂ O)	4 %
Organic carbon (C) of biological origin	10 %

COLTURE	PHASE	FERTIGATION
Greenhouse vegetables	from transplanting to fruit growth	30 kg/ha
Horticultural and ornamental	from transplanting to fruit growth	30 kg/ha
Fruit trees	from the awakening phase to fruit growth	50 kg/ha
Vite	from the awakening phase to fruit growth	50 kg/ha

Pack



25 kg



Bioplus

Allowed in
Biological Agriculture



Fluid organic nitrogenous
fertilizer Fluid hydrolysed
animal epithelium

Bioplus it is an organic fertilizer that is suitable for any type of cultivation, exerting a reactivating and strengthening action on the microorganisms in the soil, allowing the levorotatory amino acids and peptides to better nourish the roots and the foliar apparatus.

Bioplus is recommended for stimulating the productive metabolism and is an excellent vehicle for treatments with herbicides, pesticides and microelements, particularly recommended on crops that are subject to stress due to low temperatures or other climatic factors.

Bioplus can be mixed with all types of fertilizers, apart from oils, and should not be used with copper-based products.

COMPOSITION	%
Total Nitrogen (N).	8,5%
Water soluble organic nitrogen (N).	8,5 %
Organic carbon (C) of biological origin	25 %

COLTURE	FERTIGATION	FOLIAR
Greenhouse vegetables	kg 20/ha	300 gr every 100 liters of water
Horticultura l and ornamental	kg 30/ha	250 gr every 100 liters of water
Fruit trees	kg 40/ha	300 gr every 100 liters of water
Vite	kg 40/ha	250 gr every 100 liters of water





Radical Flo

Allowed in
Biological Agriculture



Fluid organic nitrogen fertilizer
Fluid agrifood vinasse of fruit and cereals

Radical Flo. Product obtained from the enzymatic extraction of plant biomass with residues from dairy production.

The end result is a product full of sugars, proteins and a beneficial bacterial load capable of activating all those tired and nutrient-free soils.

The mixture of bacteria present triggers all those microflora reproduction processes necessary for the healthy development of each individual crop. The need to use products with low environmental impact and above all capable of providing agronomic help is reflected in Radical Flo.

Use as a basic fertilizer a few weeks before each transplant. Subsequently, perform treatments every 20 days.

COMPOSITION	%
Total nitrogen (N).	3 %
Water soluble organic nitrogen (N).	3 %
Potassium oxide (K ₂ O) soluble in water	2 %
Organic carbon (C) of biological origin	20 %

DOSES	%
Greenhouse vegetables	20/30 kg/ha
Fruit bearing	40/50 kg/ha
Open field crops	40/50 kg/ha

Packs



25 kg



Kelfe

Allowed in
Biological Agriculture



EC fertilizer
Fertilizer based on EDDHA chelated iron microelements

Kelfe 6 is a high quality iron chelate, suitable for preventing and treating all those typical manifestations due to the lack of this microelement (ferric chlorosis) through root and foliar applications.

The correct ratio between isomers (ORTO-ORTO 4.8% and ORTO-PARA 1.2) make Kelfe a leading product in the prevention of deficiencies of this element.

Kelfe manifests its effectiveness on all types of cultivated soil as it is stable, persistent and assimilable in PH conditions from 3 to 10.5.

COMPOSITION	%
Iron (fe) chelated in EDDHA form	6%
Ortho-garden fraction 4.8	
EDDHA chelating agent	
EDDHA chelated iron is stable in the pH range from 3 to 10.5	

COLTURE	FERTIGATION
Vite	from 30 to 50 g per plant
Vegetables	400/500 gr per 1000 m ²
Fruit bearing	from 80 to 100 g per plant
Floriculture	300/500 g per 1000 mt ²





Kelomix

Allowed in
Biological Agriculture



Trace element fertilizer Solid
mixture of trace elements

Kelomix is a formulation for the prevention and treatment of physiopathies that occur in various crops following the deficiency due to the difficulty of assimilation or the limited availability of microelements.

Copper, manganese and zinc in chelated form are immediately assimilable.

COMPOSITION	%
Boron (B) soluble in water	0,05 %
Copper (Cu) soluble in water	1,5 %
Copper (Cu) EDTA chelated	1,5 %
Manganese (Mn) soluble in water	4 %
EDTA chelated manganese (Mn).	4 %
Molybdenum (Mo) soluble in water	0,3 %
Zinc (Zn) soluble in water	7 %
EDTA chelated zinc (Zn)	7 %

FOLIAR	%
Preventive treatments 3 spacer treatments of 20-25 days	200/250 g/hl of water
Treatments with deficiency in progress	300/350 gr/hl of water

Packs



5 kg



20 kg



Biovegetal

Allowed in
Biological Agriculture



Fluid organic nitrogen fertilizer
Agrifood vinasse of fruit and cereals

Biovegetal, product of totally organic origin derived from the enzymatic fermentation of vegetable biomasses of agri-food origin.

With its particular formulation it could have an insecticidal action, activating the endogenous defenses of plants against insects, such as **APHIDS, WHITEFLY, COCHINILLE, TUTA ABOSOLUTA, THIRIPIDS and MITES.**

The particular production technique at low temperatures, the use of chestnut tannin, garlic extract and the use of particular enzymes, coenzymes and yeasts allow to obtain a product full of essential **AMINOACIDS** for a uniform development of the crops.

The presence of micro algae of the genus **ASCOPHILLIUM** produce a further biostimulating action. A constant use of Biovetal reduces environmental stress and significantly increases the production and size of the small fruits

COMPOSITION	%
Total nitrogen (N)	3 %
Water soluble organic nitrogen (N)	3 %
Potassium oxide (K ₂ O) soluble in water	2 %
Organic carbon (C) of biological origin	20 %

COLTURE	PHASE	FOLIAR
Greenhouse vegetables	from transplanting to fruit growth	300 gr every 100 liters of water
Horticultura l and ornamental	from transplanting to fruit growth	250 gr every 100 liters of water
Fruit trees	from the awakening phase to fruit growth	300 gr every 100 liters of water
Vite	from the awakening phase to fruit growth	250 gr every 100 liters of water



Amino A

Allowed in
Biological Agriculture



Fluid organic nitrogen fertilizer
Fluid protein hydrolysed animal epithelium

Amino A, product of totally organic origin derived from the enzymatic fermentation of organically raised animal substances.

The particular production technique at low temperatures and the use of particular enzymes, coenzymes and yeasts allow to obtain a product full of essential amino acids for a uniform development of the crops. The presence of micro algae of the genus ASCOPHILLIUM produce a further biostimulating action.

A constant use of AminoA reduces environmental stress and significantly increases the production and size of the small fruits.

COMPOSITION	%
Total nitrogen (N)	8,5 %
Organic Nitrogen (N)	8,5 %
Organic carbon (C) soluble in water	25 %
Aminoacids and peptides	30%

COLTURE	PHASES	FOLIAR
Greenhouse vegetables	from transplanting to fruit growth	300 gr every 100 liters of water
Horticultura I and ornamental	from transplanting to fruit growth	250 gr every 100 liters of water
Fruit trees	from the awakening phase to fruit growth	300 gr every 100 liters of water
Vite	from the awakening phase to fruit growth	250 gr every 100 liters of water



Tricorrize

Allowed in
Biological Agriculture



Product with specific
action. Inoculum of
mycorrhizal fungi

Tricorrize it is the ideal product for all soil preparation operations before planting crops and in the preparation of substrates for cultivation in pots. It enriches soils and substrates with high quality unified organic matter and microorganisms with specific activity, giving characteristics of greater fertility and eliminating the "tiredness" of the terrain.

The selected microorganisms, present in TRICORRIZE, are active at the level of the rhizosphere: they produce acidifying substances which lower the pH, making those nutritional elements (phosphorus, iron, manganese, zinc, boron) better available which would otherwise be blocked; they produce assudates (organic acids, siderophores) able to chelate the nutritive elements improving the absorption by the roots.

COMPOSITION	%
Content in mycorrhizae	1%
Content in bacteria of the rhizosphere	1 x 10 ⁷ UFC/g
Contained in Trichoderma spp	1 x 10 ⁷ UFC/g

DOSES	%
Greenhouse floriculture	150 - 250 g/hl
Kiwi	2,5 kg/hl
Horticultural nurseries	400 g/1000 m ²
Citrus fruits	3 - 4 kg/ha
Pome fruit, stone fruit, grapevine	1,5 - 3 kg/ha
Horticultural	1,5 - 3 kg/ha
Turf carpets	2,5 - 3 kg/ha
Fruit nurseries	2,5 - 3 kg/ha
Leafy vegetables	2 - 3 kg/ha
Secular olive tree	5 - 6 kg/ha

THE FRUITS OF TOMORROW...





**HIGH QUALITY, HIGH NUTRIENT
CONTENT BALANCED
ACCORDING TO EACH SINGLE
AND SPECIFIC CULTURE.**

**DOSAGE REDUCTION,
AGRONOMIC EFFECTIVENESS,
EASE OF USE, GREATER
STABILITY AND LEAF AND ROOT
PENETRATION CAPACITY.**

Blu *LINE*

Liquid fertilizers specifically formulated for each individual crop.

Calmag	44
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Calmag

Corrective
Mixed solution of calcium and magnesium salts

Calmag is a ready-to-use product, recommended for the treatment and prevention of different types of physiopathies due to the lack of calcium and magnesium, which manifest themselves with apical rot in tomatoes and dried grapes..

The product is characterized by an accentuated system of action capable of promoting the absorption and translocation of the element within the plant tissues.

Traces of **chelated microelements** and organic carrier mean that Calmag ensures plants a higher **nutritional level**.

COMPOSITION	%
Calcium oxide (CaO) soluble in water	10 %
Magnesium oxide (MgO) soluble in water	4 %

COLTURE	FERTIGATION	FOLIAR
Vegetables	3/4 kg/Ha	200/300 gr/hl
Vite	3/4 kg/Ha	250/350 gr/hl
Stone fruit	2/3 kg/Ha	200/250 gr/hl
Pome fruit	3/4 kg/Ha	200/250 gr/hl





Kaliphos 0-30-20

EC fertilizer
Fertilizer solution PK 30 -20

Kaliphos 0-30-20 is a fluid supplement with high macro-nutritive activity, with a high content of phosphorus and potassium, particularly recommended for tree, vegetable and ornamental crops. Phosphorus can sometimes be difficult to absorb as it is often blocked in the soil due to insolubilization phenomena..

Kaliphos 0-30-20 contains readily assimilable phosphorus and potassium. Phosphorus participates in the phenomena of root development, tuber formation and early flowering and seed germination. Potassium is a key element of the processes related to photosynthesis and the formation of sugars and starches.

Kaliphos 0-30-20, thanks to the balanced presence of the two macro-elements, if correctly applied to crops, stimulates the biosynthesis of phytoalexins, natural defense substances of the plant which protect the tissues affected by infection by limiting its spread.

In tree and vegetable crops, Kaliphos 0-30-20 improves both the organoleptic quality, expressed in terms of° brix, flavor and firmness of the pulp, and the commercial quality, expressed in terms of shelf life of the products.

A regular use of Kaliphos 0-30-20 in ornamental plants allows the formation of long and erect stems, avoids phylloptosis and gives the flowers an intense and perfumed colour.

Kaliphos 0-30-20 gives the treated crops resistance to biotic and abiotic stress..

Early flowering Tuber formation and seed germination Better organoleptic and commercial quality.

COMPOSITION	%
Phosphorus pentoxide (P ₂ O ₅) from water-soluble orthophosphoric acid	30 %
Potassium Oxide (K ₂ O) soluble in water with low chlorine content	20 %

COLTURE	FERTIGATION	FOLIAR
Vegetables	3/4 kg/Ha	200/300 gr/hl
Vite	3/4 kg/Ha	250/350 gr/hl
Stone fruit	2/3 kg/Ha	200/250 gr/hl
Pome fruit	3/4 kg/Ha	200/250 gr/hl

Packs



25 kg



Lignical

Allowed in
Biological Agriculture



Fertilizer based on secondary elements Calcium complex (ammonium lignosulphonate)

Lignical it contains a high concentration of calcium complexed with ammonium lignosulphonate (LSA) derived from lignin, a molecule of totally organic origin capable of translating the elements within plant tissues.

Lignical prevents all those deficiencies due to the lack of the calcium element.

Recommended against all those phytopathologies such as pitting, apical rot, rachis desiccation.

Also used in pre-harvest, it helps to improve fruit conservation.

COMPOSITION	%
Calcium Oxide (CaO)	15 %
Calcium Oxide (CaO) in complex form (ammonium lignosulphonate)	15 %

COLTURE	FERTIGATION	FOLIAR
Tree crops	da 10 a 30 kg/ha	from 300 g to 350 gr/hl
Horticultural crops	da 10 a 20 kg/ha	from 250 g to 300 gr/hl
Floral crops	da 10 a 20 kg/ha	from 250 g to 300 gr/hl





Solfo Acid

Simple Mineral Nitrogen Fertilizer Fluid
Nitrogen fertilizer solution

Solfo Acid is a product that can be used in the production of fertilizers, and in cleaning and descaling of pipelines, as well as in the correction of excessively basic soils.

In particular, washing drip irrigation systems using Solfo Acid is useful for dissolving and eliminating limestone formations which, during the irrigation cycles, can accumulate in the system and in the dripper labyrinths.

Solfo Acid can be used in fertigation.

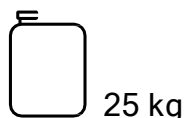
Solfo Acid can be effectively used to correct the pH of excessively alkaline and sodium soils.

COMPOSITION	%
Total nitrogen (N).	15 %
Nitrogen (N) urea	15 %
Sulfur trioxide (SO ₃) soluble in water	40 %

DOSES AND METHODS

In nutrient solution 20\40 Kg/ha are recommended depending on the type of water and the salt content, recommending 2-3 treatments throughout the phenological phase

Packs





Microcalc

Corrective calcium salt solution

Microcalc It is a ready-to-use product recommended for the treatment and prevention of different types of physiopathies due to calcium deficiency which manifest themselves with apical rot in tomatoes and in the dryness of the vine.

The product is characterized by an accentuated system of action capable of promoting the absorption and translocation of the element within the plant tissues.

Traces of chelated microelements and organic carrier mean that MICROCAL ensures plants a higher nutritional level. The high content of CALCIUM FORMIATE allows the calcium Ca⁺ element to be translocated immediately inside the cell membranes thus allowing the strengthening of all tissues including small fruits.

COMPOSITION	%
Calcium oxide (CaO) soluble in water	16 %
EDTA chelated zinc (Zn).	0,02 %
EDTA chelated manganese (Mn).	0,02 %

COLTURE	FERTIGATION	FOLIAR
Vegetables	3/4 kg/Ha	200/300 gr/hl
Vite	3/4 kg/Ha	250/350 gr/hl
Stone fruit	2/3 kg/Ha	200/250 gr/hl
Pome fruit	3/4 kg/Ha	200/250 gr/hl

