



# Nutrition Line





**Nutrimos, Fortalecemos, Mejoramos**

*We Nourish, We Strengthen, We Improve*





## Who are we?

**arvensis** founded in 1998, has been consolidated as a leading company that has performed a key role in the development of technology applied to agriculture. It is located in Zaragoza (Spain), a city considered as a strategic and logistic reference. From its beginning until today **arvensis** has been consolidated as a huge project of development, production and distribution of plant nutrition for agriculture.

## What do we do?

In **arvensis** we design, develop and formulate plant nutritional products both liquids and solids, with the aim of giving to "the land" a range of quality added-value products, always fulfilling the quality standards of the current market.

## How do we do it?

We have a close relationship with our customers, we take care of them in such a way that we consider them as "our partners" in a common project. **arvensis** invests a large part of its budget in R+D+i tasks. To carry out these tasks, not only do we have our own staff in charge of them, but also Arvensis has its own facilities for tests and trial purposes. Furthermore, we are in close contact and collaboration with centres and research institutions: CDTI, IFAPA, universities...

## Evolution

Ever since its creation our company has had a clear vision towards exports. Nowadays, we are present in more than 40 countries throughout all 5 continents. Our annual production could treat the half size of the whole agricultural area in Spain.

## Our Passion

**arvensis** summarizes the success of our business, based on the enthusiasm, the engagement and the passion of each individual working for us. To summarize, for us, **arvensis** is a word that means our particular vision of taking care of our customers and the plant kingdom, specially, agriculture.



## Guaranties and certifications

**arvensis** has presence in international markets. We belong to the main business organisations. We also own some quality marks recognized internationally:

### Organic agriculture certifications



Mindful of the need to join efforts and knowledges with other organisations, **arvensis** is an active member of the main technology platforms and other agriculture associations.

### Associations, Clusters and technologic Platforms



**AraBioTech**



## Our R+D+i Spirit?

Our commitment in Research, Development and Innovation is an essential component of our work philosophy. For that reason, since its beginnings, **arvensis** has developed a sustained effort in Research and Development of new solutions for agriculture.

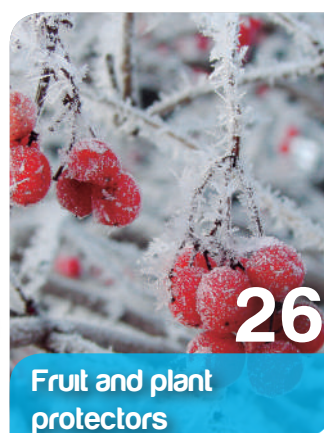
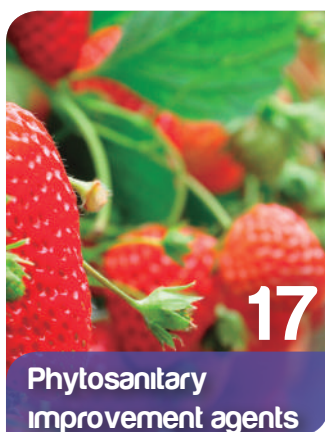
Our international presence is a great information source to the development of several research projects. This means that our products are adapted to the special needs of each market in such a way that we offer new solutions to our agricultural producers.

Thanks to our hard work, we are developing some projects and at the same time, we collaborate and have agreements with several national and international research institutions:

- Collaborations with research institutions: IFAPA, IRTA, EVENA, EEAD-CSIC...
- Collaborations, agreements and research works with several universities: University of Zaragoza (Spain), UPS Quito (Ecuador), CPG Montecillo (México)...
- Development of national and international R+D+i projects: CDTI, INNOGLOBAL...
- Participation in national and international symposiums and congresses.
- Participation in scientific journals.









Humic acids are liquid and solid compounds (100% soluble) obtained from high quality Leonardites, which have been carefully selected to assure their agronomic properties. They are specially recommended for unstructured and mineralized soils.

## **CRIPTHUM** *New*



**Cripthum** is a liquid concentrated suspension of encapsulated humic and fulvic acid particles, fully active and extracted from carefully selected natural leonardite, and whose main distinguishing feature with the rest of humic amendments present in the market is that it has an acidic pH.

**Cripthum** is especially indicated to improve the structure of tired and highly mineralized soils, favoring the release of blocked nutrients and stimulating soil retention capacity. Likewise, its action of vegetative stimulation on the roots and aerial part of the plants, allows a better balanced development that affects increasing the productions.

### COMPOSITION

Total Humic Extract .....	40% w/w (51.2% w/v)
Humic acids .....	30% w/w (38.4% w/v)
Fulvic acids .....	10% w/w (12.8% w/v)
Density .....	1.28 g/cc
pH .....	3.3

CROP	DOSE	WAY & TIME OF APPLICATION
AROMATICS	De 2-4 L/Ha	Apply during the crop cycle.
CEREALS	De 2-4 L/Ha	Apply during the crop cycle.
CÍTRUS	De 2-4 L/Ha	Apply from sprouting until one month before harvest.
FORESTRY	De 2-4 L/Ha	Apply from sprouting until one month before harvest.
FRUIT TREES	De 2-4 L/Ha	Apply from sprouting until one month before harvest.
VEGETABLES	De 2-4 L/Ha	Apply during the crop cycle.
INDUSTRIALS	De 2-4 L/Ha	Apply when crop has from 6 to 8 visible leaves.
ORNAMENTALS	De 2-4 L/Ha	Apply during the crop cycle.
TROPICALS	De 2-4 L/Ha	Apply during the crop cycle.

\*For OTHER CULTURES out of the list, please, ask our Technical Department.

## **HORTUMUS**



**Hortumus** is a liquid humic amendment. It is intended to improve soil structure and highly mineralized tired soils, favouring the release of blocked nutrients and stimulating the soil retention capacity. Furthermore, its stimulating action on the roots and vegetative aerial parts of the plants, enables better balanced development impact by increasing production.

### COMPOSITION

Total Humic Extract .....	20.5% w/w (24.6% w/v)
Humic Acids .....	10.5% w/w (12.6% w/v)
Fulvic Acids .....	10% w/w (12% w/v)
Potassium oxide (K <sub>2</sub> O) water-soluble .....	4% w/w (4.8% w/v)
Density .....	1.2 gr/cc

Main Raw material: Leonardite (oxidized lignite)

CROP	DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	8-10 L/Ha	Perform 2 - 3 applications from bud break.
CITRUS	10-12 L/Ha	Perform 3 applications: 2 spread over the bud breaks and 1 at the end of summer.
HORTICULTURAL & STRAWBERRIES	10-12 L/Ha	Perform 3 - 5 applications spread over the crop cycle.
INDUSTRIALS	5-8 L/Ha	Perform 2 - 3 applications from nascence to flowering.
VINES	6-8 L/Ha	Perform 3 - 4 applications spread over the crop cycle.
BANANA TREES	10-15 L/Ha	Perform 4 - 5 applications from spring.

\*This recommended dosage could vary according to the soil type and its fertility.

## **HUMIPOWER**



**Humipower** is a liquid humic amendment. It is intended to improve soil structure and highly mineralized tired soils, favouring the release of blocked nutrients and stimulates the soil retention capacity. Furthermore, its stimulates action on the roots and vegetative aerial parts of the plants, enables better balanced development impact by increasing production.

### COMPOSITION

Total Humic Extract .....	16% w/w (18.1% w/v)
Humic Acids .....	9% w/w (10.2% w/v)
Fulvic Acids .....	7% w/w (7.9% w/v)
Potassium oxide (K <sub>2</sub> O) water-soluble .....	4% w/w (4.50% w/v)
Density .....	1.13 gr/cc

Main Raw material: Leonardite (oxidized lignite).

CROP	DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	8-10 L/Ha	Perform 2 - 3 applications from bud break.
CITRUS	10-12 L/Ha	Perform 3 applications: 2 spread over bud breaks and 1 at the end of summer.
HORTICULTURAL & STRAWBERRIES	10-12 L/Ha	Perform 3 - 5 applications spread over the crop cycle.
INDUSTRIALS	5-8 L/Ha	Perform 2 - 3 applications from nascence to flowering.
VINES	6-8 L/Ha	Perform 3 - 4 applications spread over the crop cycle.
BANANA TREES	10-15 L/Ha	Perform 4 - 5 applications from spring.

\*This recommended dosage could vary according to the soil type and its fertility.





## HUMIPOWER SOLUBLE

25kg 5kg 1kg

**Humipower Soluble** is a solid amendment with a high humic acid concentration. It favours the release of blocked nutrients and stimulating the soil retention capacity. Furthermore, its stimulating action on the roots and vegetative aerial parts of the plants, enables a better balanced development impact by increasing production.

### COMPOSITION

Total Humic Extract (Humic Acids +Fulvic Acids) .....	85,0%
Humic Acids.....	75,0%
Fulvic Acids.....	10,0%
Potassium oxide (K <sub>2</sub> O) water-soluble .....	10%
Main Raw material:	
Leonardite (oxidized lignite) .....	88% w/w
Potassium Salts .....	12% w/w

CROP	DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	5 Kg/Ha	4 Applications: bud break, flowering, setting and fattening.
TROPICALS	5 Kg/Ha	4 Applications: bud break, flowering, setting and fattening.
CITRUS	5 Kg/Ha	4 Applications: bud break, flowering, setting and fattening.
HORTICULTURALS	5 Kg/Ha	1 Application during growth, 3 applications every 21 days from the start of flowering .
CEREALS	5 Kg/Ha	3 Applications: tillering, booting and ear emergence.
BANANA & PINEAPPLES	5 Kg/Ha	4 Applications spread over the crop cycle from the end of winter .
ORNAMENTALS	5 Kg/Ha	3 Applications spread over the crop cycle.
SUGAR CANE	5 Kg/Ha	3 Applications spread over the crop cycle.
INDUSTRIALS	5 Kg/Ha	3 Applications spread over the crop cycle after 4-6 leaves.

\*This recommended dosage could vary according to the soil type and its fertility..

## HUMIPOWER SOLID



25kg 5kg 1kg

**Humipower Solid** is a solid amendment with a high humic acid concentration. It favours the release of blocked nutrients and stimulates the soil retention capacity. It includes mycorrhizae that improves vegetative stimulating action on the roots and aerial parts of plants. Due to its composition, the nutrients are gradually released.

### COMPOSITION

Total Humic Extract (Humic Acids +Fulvic Acids) .....	75,0%
Humic Acids.....	70,0%
Fulvic Acids.....	5,0%
Silica (SiO <sub>2</sub> ) .....	0,1%
Potassium oxide (K <sub>2</sub> O) water-soluble.....	8 %
Main Raw material:	
Leonardite (oxidized lignite) .....	88% w/w
Potassium Salts .....	12% w/w

CROP	DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	10-20 Kg/Ha	Apply at the beginning of the cropping season or planting.
CITRUS	10-20 Kg/Ha	Apply at the beginning of the cropping season or planting.
HORTICULTURAL & STRAWBERRIES	10-15 Kg/Ha	Apply in bud break or transplantation.
INDUSTRIALS	10-15 Kg/Ha	Apply in bud break or transplantation.
VINES	10-20 Kg/Ha	Apply at the beginning of the cropping season or planting.
BANANA TREES	10-20 Kg/Ha	Apply at the beginning of spring.

\*This recommended dosage could vary according to the soil type and its fertility.





The **ORGAPLANT** product range has been designed to improve the vegetative organic matter. It is a new formulation obtained from stabilized vegetal extracts. Most of the organic matter comes from fulvic acids, carboxylic acids, etc. Therefore, the risk of precipitation or sedimentation of the product is minimum.



## ORGAPLANT-Ca

1000 litres 220 litres 20 litres 5 litres 1 litre 500 ml

**Orgaplant-Ca** is a formulation obtained from natural vegetal extracts stabilized with fulvic acids and other organic acids that act as Calcium complexing agents. Its continued use improves the soil structure, the cation exchange capacity and activates microbial life. This product improves the root system by increasing the level of organic matter. It also increases the plant mass achieving higher crop yields.

### COMPOSITION

Total Organic Matter (Fulvic Acids).....	30% w/w (39,6% w/v)
Total Organic C.....	17,4% w/w (23% w/v)
Total Nitrogen (N).....	3% w/w (3,9% w/v)
Potassium oxide (K <sub>2</sub> O) water-soluble.....	3% w/w (3,9% w/v)
Calcium oxide (CaO) water-soluble.....	4% w/w (5,28% w/v)
Density .....	1,32 g/cc

CROP	SOIL DOSE	WAY & TIME OF APPLICATION
CEREALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
CITRUS	10-20 L/Ha	Perform 3 applications: 2 in bud break and 1 at the end of summer.
FORESTRY	10-20 L/Ha	Perform 2 - 4 applications from bud break .
FRUIT TREES	10-20 L/Ha	Perform 2 - 4 applications from bud break.
HORTICULTURAL	10-20 L/Ha	Perform 3 - 5 applications spread over the crop cycle.
INDUSTRIALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
ORNAMENTALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
TROPICALS	10-20 L/Ha	Perform 4 - 5 applications from spring.

Foliar dosage: apply 2-3cc/L - If any doubt, consult our technical department..  
\*This recommended dosage could vary according to the soil type and its fertility..



## ORGAPLANT-NK



1000 litres 220 litres 20 litres 5 litres 1 litre 500 ml

**Orgaplant-NK** is a formulation obtained from natural vegetal extracts, that contains fulvic acids and other organic acids which in turn contain Nitrogen and Potassium. **Orgaplant-NK** improves the soil fertility as well as the cation exchange capacity. The increasing level of organic matter reactivates microbial life and also encourages root system, improving productivity and crop yields.

### COMPOSITION

Total Organic Matter (Fulvic Acids) .....	36% w/w (43,2% w/v)
Total Organic C.....	20,9% w/w (25,1% w/v)
Total Nitrogen.....	4% w/w (4,8% w/v)
Organic Nitrogen (N) .....	1,7% w/w (2% w/v)
Ammonia Nitrogen (N) .....	2,3% w/w (2,8% w/v)
Potassium oxide (K <sub>2</sub> O) water-soluble.....	3% w/w (3,6% w/v)
Density .....	1,2 g/cc

CROP	SOIL DOSE	WAY & TIME OF APPLICATION
CEREALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
CITRUS	10-20 L/Ha	Perform 3 applications: 2 in bud break and 1 at the end of summer.
FORESTRY	10-20 L/Ha	Perform 2 - 4 applications from bud break.
FRUIT TREES	10-20 L/Ha	Perform 2 - 4 applications from bud break.
HORTICULTURAL	10-20 L/Ha	Perform 3 - 5 applications spread over the crop cycle.
INDUSTRIALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
ORNAMENTALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
TROPICALS	10-20 L/Ha	Perform 4 - 5 applications from spring.

Foliar dosage: apply 2-3cc/L - If any doubt, consult our technical department.  
This recommended dosage could vary according to the soil type and its fertility.  
\* For OTHER CROPS out of the list, please, consult our Technical Department



## ORGAPLANT ORGANIC



1000 litres 220 litres 20 litres 5 litres 1 litre 500 ml

**Orgaplant Organic** is a product with a high concentration of organic Nitrogen from vegetal ferments. It also contains free amino acids. Thanks to these amino acids, **Orgaplant Organic** is the suitable product when plants are in difficult situations and they are needed to be fertirrigated: either because they have suffered severe damages or imbalances in their development.

### COMPOSITION

Free Aminoacids.....	12% w/w (15% w/v)
Total Nitrogen.....	8,0% w/w (10% w/v)
Organic Nitrogen (N) .....	4,5% w/w (5,6% w/v)
Ammoniacal Nitrogeno (N) .....	3,5% w/w (4,4% w/v)
Density .....	1,25 g/cc
pH.....	6
100% Fermented protein of vegetable origin	

CROP	SOIL DOSE	WAY & TIME OF APPLICATION
CEREALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
CITRUS	15-20 L/Ha	Perform 3 applications: 2 in bud break and 1 at the end of summer.
FORESTRY	15-20 L/Ha	Perform 2 - 4 applications from bud break.
FRUIT TREES	10-20 L/Ha	Perform 2 - 4 applications from bud break.
HORTICULTURAL	10-20 L/Ha	Perform 3 - 5 applications spread over the crop cycle.
INDUSTRIALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
ORNAMENTALS	10-20 L/Ha	Perform 2 - 3 applications from nascence to flowering.
TROPICALS	15-20 L/Ha	Perform 4 - 5 applications from spring.

\* This recommended dosage could vary according to the soil type and its fertility.





Soil structuring products have been developed not only to solve any salinity problems related to irrigation water as well as to improve the salinity-sodium conditions in soils, but also to get the best optimization of the irrigation water in difficult soils, such as sandy and clay soils. Therefore, soil structuring products are recommended to recover the infertile soils by releasing the nutrients, being available for their root absorption, in order to improve its poor situation.



## DISPERSAL

1000 litres 220 litres 20 litres 5 litres 1 litre 500 ml

**Dispersal** is a product developed as a corrector for saline-sodium soils and saline waters. Thanks to its formulation, **Dispersal** improves the soil agronomic properties, displaces salts in such a way that even soils are recovered for agriculture.

### COMPOSITION

Calcium oxide (CaO) water-soluble .....	12,31% w/w (17,8% w/v)
Magnesium oxide (MgO) water-soluble.....	0,5% w/w (0,72% w/v)
Density .....	1,45 gr/cc.
Stability interval of the completed fraction: ph between 2.9 and 10.1	

	CROP	DOSE	WAY & TIME OF APPLICATION
SOIL	Saline-sodium	60-100 L/Ha	Spread over the crop cycle.
	Compact	40-60 L/Ha	Spread over the crop cycle.
	Nascence problems	50-80 L/Ha	Spread over the crop cycle.
WATERS	Salt content	1.5 gr/L	Apply 40 cc/m <sup>3</sup>
	Salt content	> 2.5 gr/L	Apply 60 cc/m <sup>3</sup>



## AQUAPOWER

20 litres 5 litres 1 litre 500 ml

The effectiveness of **Aquapower**, a powerful soil structuring, has been clearly shown. Its usage, complementary to the saline correctors, provides the following effects on soils:

- Optimize the amount of irrigation water.
- Avoid the accumulation of salts on the soil surface.
- Enhance the soil aeration and the biomass regeneration.
- Avoid puddles in compact soils.
- Avoid excessive water-loss due to infiltration and increase the nutrient retention.
- Enhance the root development by improving soil conditions.

	CROP	DOSE	WAY & TIME OF APPLICATION
	AROMATICS	2-3 L/Ha	<p>The dose of Aquapower is 2-3 L/Ha in short cycles. For long cycles perform 2 applications (4-6 L/Ha in total).</p> <p><b>How to apply Aquapower?</b></p> <p>Before addition of Aquapower, the water of mixer tank should be treated with conditioner by the dose 40cc/l of Aquapower. Every 100L of water of mixer tank add 1L of Aquapower.</p> <p><b>Procedure of mixing Aquapower:</b></p> <ol style="list-style-type: none"> <li>1. Fill the mixer tank with water</li> <li>2. Add the conditioner and shake it for 2 minutes to homogenize.</li> <li>3. Add Aquapower to the mixer tank under shaking. Add it slowly to improve the product qualities.</li> </ol> <p><b>Procedure of irrigation mix:</b></p> <ol style="list-style-type: none"> <li>1. Moisten the soil: 20-30 minutes only water.</li> <li>2. Apply Aquapower mixture through irrigation system for a good infiltration (30 minutes minimum)</li> </ol> <p>Wash the irrigation circuit at the end of application by circulating water for 15 minutes.</p>
	CEREALS		
	CITRUS		
	FORESTRY		
	FRUIT TREES		
	HORTICULTURAL		
	INDUSTRIALS		
	ORNAMENTALS		
	TROPICALS		

\* For OTHER CROPS out of the list, please, consult our Technical Department.



## ABSORTIM

20 litres 5 litres 1 litre 500 ml

**Absortim** is a powerful soil structuring.

**Absortim** allows to optimize the usage of the irrigation water and to improve the conditions in difficult soils.

On the one hand, when using this product in light soils, the infiltration losses are lower and the capacity of nutrient and water retention is higher.

On the other hand, when using this product in heavy soils, a better optimization of the irrigation water is achieved, increasing the drainage and aeration system. Therefore, the problems caused by waterlogging are avoided: for instance, the root asphyxia, the pathogens attacks... Also, the water losses through evaporation and runoff are the minimum.

It promotes the development of the radicular bulb.

### COMPOSITION

Free Aminoacids.....	2,0% w/w (2,2% w/v)
Total Aminoacids.....	2,2% w/w (2,4% w/v)
Calcium oxide (CaO) .....	1,5% w/w (2,2% w/v)
Total Nitrogen (N) .....	1% w/w (1,08% w/v)
Magnesium Oxide (MgO) .....	0,5% w/w (0,6% w/v)
Structuring polymers .....	75% w/w (82,5 % w/v)
Organic Carbon .....	10% w/w (11% w/v)
Density .....	1.1 gr/cc
pH .....	5

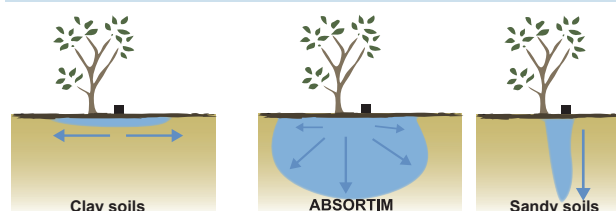
### DOSE AND WAY OF APPLICATION OF ABSORTIM

**Absortim** is a product that not only improves soil treatments but also encourages the infiltration and retention of the irrigation or rain water on each type of soil, by flowing in a wider area uniformly.

It can be applied by lawn sprinkler, pivot or trickle irrigation. It can also be applied by flood irrigation or by storage tanks of treatments with agrochemical products or fertilizers.

- **When soils are sandy and simple:** add Absortim to a dose of 10L/Ha and then finish the irrigation with the 25% of the washing irrigation time.
- **When soils are heavy or having a light crust:** add 10-15 L/Ha of Absortim in 5L/Ha applications.

Apply from the beginning of the irrigation and repeat this procedure after 15 days, either with this product or with Aquapower. If the problem still persists, a third application is recommended, one month after the first treatment.



Water distribution in clay, sandy and treated soils.



The root stimulants are products specially designed to improve the development of the root system, thanks to macro and micronutrients, essential L -amino acids, reactivators of the root system (algae extracts, organic acids, polysaccharides, humic and fulvic extracts) and root synergizings.

## RHIZUM



20 litres

5 litres

1 litre

500 ml

**Rhizum** is a liquid product made from vegetal extracts. It contains algae extracts, humic-fulvic acids, polysaccharides and organic substances that reactivate the root system by natural synergizings. The main purpose of Rhizum is to advance and enhance the development of plants thanks to a quick protein synthesis. As a result, crops benefit from an advance in fruit production.

### COMPOSITION

Free Amino Acids .....7,5% w/w (9% w/v)  
Total Nitrogen (N) .....2,5% w/w (3% w/v)  
Organic Nitrogen (N) .....2,5% w/w (3% w/v)  
Calcium (CaO) water-soluble .....2% w/w (2,4% w/v)  
Calcium (CaO) complexed with AG.....1% w/w (1,2% w/v)  
Rooting natural Synergizing .....1970 p.p.m.  
Density .....1,2 gr/cc  
pH .....3,5

CROP	DOSE SUELO	WAY & TIME OF APPLICATION
CITRUS SEEDLINGS	4-5 L/Ha	Perform the 1 <sup>st</sup> application with the irrigation and the 2 <sup>nd</sup> one at the beginning of bud break .
FRUIT TREES AND VINES	4-5 L/Ha	Perform the 1 <sup>st</sup> application after 10 days transplanting and the 2 <sup>nd</sup> one after 30 days of planttion.
HORTICULTURAL & STRAWBERRIES	3-5 L/Ha	Perform the 1 <sup>st</sup> application when transplanting and the 2 <sup>nd</sup> one 21 days after.
INDUSTRIALS	3 L/Ha	Perform the 1 <sup>st</sup> application when 2-4 leaves are visible and the 2 <sup>nd</sup> one 21 days after.
BANANA TREES & TROPICALS	5 L/Ha	Perform the 1 <sup>st</sup> application at the end of winter and the 2 <sup>nd</sup> one 21 days after.
ORNAMENTALS	5 L/Ha	Perform the applications spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.



Tomatoes treated with Rhizum 2cc/L Arvensis



Commercial sample







These products have been developed to regulate and optimize the plant physiological processes. They act on the crop physiology by improving its performance, strength and overcoming the stress stages too.



## ALGAPOWER



It is a product made from concentrated seaweed extract (*Ascophyllum nodosum*) which contains amino acids and natural organic synergizing, with a biostimulant effect.

**Algapower** is a product which contains all the benefits seaweed can bring on crops: resistance to plant stress, improving the performance and the crop quality... Below some of the main **Algapower** benefits are detailed:

- Higher crop yields
- Better absorption of the soil inorganic nutrients
- Increased maturity period
- Better seed sprouting
- Improvement of the root growth
- Higher resistance to stress
- Higher resistance against pathogens and hostile environments

### COMPOSITION

Free Amino Acids .....	3 % w/w (3,6% w/v)	Mannitol .....	0,3% w/w (0,36% w/v)
Total Nitrogen (N) .....	1% w/w (1,2% w/v)	Algae acid .....	0,7% w/w (0,84% w/v)
Organic Nitrogen (N) .....	0,7% w/w (4,8% w/v)	Density .....	1,2 g/cc
Phosphoric anhydride (P <sub>2</sub> O <sub>5</sub> )		pH .....	7,5
water soluble .....	2 % w/w (2,4% w/v)	Conductivity.....	39,3 mS/cm
Potassium Oxide (K <sub>2</sub> O)			
water soluble .....	4 % w/w (4, 8% w/v)		

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES AND CITRUS	100-200 cc / 100L of water	2-3 L/Ha	Apply at the beginning of bud break.
VINES	150-200 cc / 100L of water	2-3 L/Ha	Apply at the beginning of bud break and at the beginning of flowering.
HORTICULTURAL	200-300 cc / 100L of water	2-4 L/Ha	Apply spread over the crop cycle.
STRAWBERRIES & RASPBERRIES	200-300 cc / 100L of water	3-4 L/Ha	Apply when there is enough foliar mass.
BANANA TREES	200-300 cc / 100L of water	3-5 L/Ha	Apply twice a month.
OLIVE TREE	100-200 cc / 100L of water	2-3 L/Ha	Apply at the beginning of bud break.
OTHER CROPS	150-300 cc / 100L of water	2-4 L/Ha	Apply spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.



Algapower effect in broccoli



## FERTTYBYO

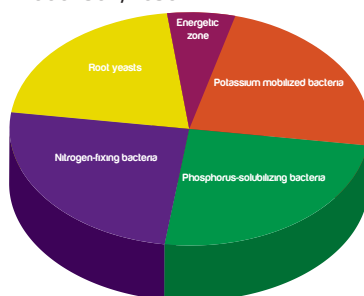


**Ferttybyo** is a liquid formulation of beneficial microorganisms which have been carefully selected with a high population (among 10<sup>8</sup>-10<sup>10</sup> UFC/ml). It contains microorganisms with the following actions:

- The fixation capacity of the atmospheric Nitrogen.
- Potassium mobilizing.
- Phosphorus-solubilizing.
- Chelating action of blocked micronutrients: Fe, Mn, Zn, Cu, B...

When **Ferttybyo** is often used, the plant development is improved, encouraging the benefits of the root environment as well as the root development in crops.

Registration number in Spain: F0004502/2030.



CROP	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES AND CITRUS	5 L/Ha	2 Applications per year:  1 <sup>st</sup> : when bud breaking (fruit trees), after transplanting (horticultural) or after the nascence (cereals, soya and industrials).
VINES	5 L/Ha	
HORTICULTURAL & STRAWBERRIES	5 L/Ha	2 <sup>nd</sup> : 30-45 days after first application and always when any biological damage in soils is suspected (total fungicide usage, copper, sulphur, etc.)
BANANA TREES	5 L/Ha	
INDUSTRIALS	5 L/Ha	
ORNAMENTALS	5 L/Ha	
CEREALS	5 L/Ha	
OTHER CROPS	5 L/Ha	

\*This recommended dosage could vary according to the soil type and its fertility.



## ESTIMURIZ



**Estimuriz** is a liquid fertilizer and biostimulant, specially designed to boost the Nitrogen (N) metabolism towards the synthesis of the vegetal proteins.

This product is recommended for any crop, as in the development of new tissues or in any other stage: sprouting, tillering, flowering, setting and ripening. **ESTIMURIZ** encourages the seed sprouting with amazing effects on the nascence and the strength which the vegetative development begins.

Besides, **Estimuriz** is also recommended for leguminous plants, as it increases the atmospheric Nitrogen action in the root nodes and encourages the change of the nitric forms into amino acids and proteins.

Crops such as soya, whose seeds are high in proteins, need to fix and mobilize a great amount of N. **Estimuriz** is an effective, sustainable and profitable solution to maximize the efficiency in the availability, mobilization and fixing of the N.

CROP	DOSE FOLIAR	DOSE SUELO	WAY & TIME OF APPLICATION
CEREALS	200-300 cc/100 L of water	200-400 cc/100 Kg	Apply at the beginning of the crop cycle.
INDUSTRIALS	200-300 cc/100 L of water	200-400 cc/100 Kg	Apply at the beginning of the crop cycle (V4 in soya).
HORTICULTURAL	200-300 cc/100 L of water	200-400 cc/100 Kg	Apply at the beginning of the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.

### COMPOSITION

Free Amino Acids .....	3,8 % w/w (4,9 % w/v)
Total Nitrogen.....	1% w/w (1,3 % w/v)
Cobalt (Co) water-soluble .....	0,1 % w/w (0,13% w/v)
Molybdenum (Mo) water-soluble .....	3% w/w (3,9 % w/v)
Zinc (Zn) water-soluble .....	5% w/w (6,5% w/v)
Density .....	1,3 g/cc
pH .....	7,5



The amino acids, as structural units of proteins, are the basis of the growth and vegetal development in such a way that they are vital for crop metabolism. The Triamin product range consists of several formulations with complete and balanced aminogram, specially designed to supply essential L-Amino acids and micronutrients during biotic or abiotic stress stages in the crop development.



## TRIAMIN PLUS

20 litres 5 litres 1 litre 500 ml

**Triamin Plus** is a product with a high concentration of amino acids. Specially, it has a high concentration of glycine, proline and glutamic acid. Due to its high content in free amino acids, it is suitable for use when plants are suffering critical situations, or when they have already suffered some damages during their development. **Triamin Plus** enhances the plant recovery.

### COMPOSITION

Free Amino Acids .....	21% w/w (26,25% w/v)
Total Amino Acids .....	32% w/w (40% w/v)
Total Nitrogen (N) .....	7% w/w (8,75% w/v)
Boron (B) water-soluble .....	0,08% w/w (0,1% w/v)
Copper (Cu) water-soluble .....	0,07% w/w (0,08% w/v)
Iron (Fe) water-soluble .....	1,15% w/w (1,44% w/v)
Manganese (Mn) water-soluble .....	0,65% w/w (0,81% w/v)
Molybdenum (Mo) water-soluble .....	0,03% w/w (0,037% w/v)
Zinc (Zn) water-soluble .....	0,18% w/w (0,23% w/v)
Density .....	1,25 gr/cc

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES AND CITRUS	100-150 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications before and after flowering.
HORTICULTURALS	100-150 cc/100 L of water	4-5 L/Ha	Perform 3-4 applications spread over the crop cycle.
INDUSTRIALS	100-150 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications when 6-8 leaves are visible.
CEREALS	100-150 cc/100 L of water	3-4 L/Ha	Apply with the post emergence herbicides.
TROPICALS AND BANANA TREES	100-150 cc/100 L of water	4-5 L/Ha	Apply at the beginning of tillering and on flowering.
ORNAMENTALS	100-150 cc/100 L of water	3-4 L/Ha	Perform 3-4 applications spread over the crop cycle.
VINES	100-150 cc/100 L of water	4-5 L/Ha	Perform applications on preflowering and when the fruit reaches 7 mm.
OTHER CROPS	100-150 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.



## TRIAMIN



20 litres 5 litres 1 litre 500 ml

As we mentioned before, the amino acids are the structural units of proteins. **Triamin** contains the main agronomic amino acids, whose essential functions in plants are the following:

- Chelating power.
- Improved pollination and fruit setting.
- Estomática regulation.
- Resistance to hydric stress, frost and disease.
- Increased production and early fruits.

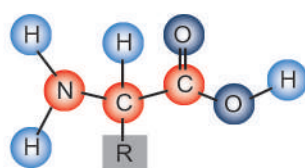
### COMPOSITION

Free Amino Acids .....	10,2% w/w (12,75% w/v)
Total Amino Acids .....	22% w/w (27,5% w/v)
Total Nitrogen (N) .....	2,5% /p (3% w/v)
Organic Matter .....	23,6% w/w (29,5% w/v)
Boron (B) .....	0,06% w/w (0,075% w/v)
Copper (Cu) .....	0,064% w/w (0,08% w/v)
Iron (Fe) .....	1,16% w/w (1,45% w/v)
Manganese (Mn) .....	0,59% w/w (0,74% w/v)
Molybdenum (Mo) .....	0,017% w/w (0,021% w/v)
Zinc (Zn) .....	0,116% w/w (0,145% w/v)
Density .....	1,25gr/cc

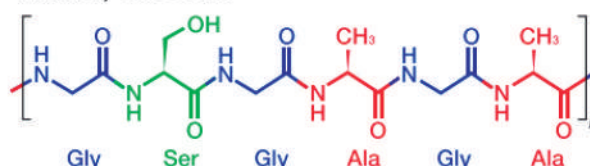
CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	150-250 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications before and after flowering.
HORTICULTURALS	150-250 cc/100 L of water	4-5 L/Ha	Perform 3-4 applications spread over the crop cycle.
INDUSTRIALS	150-250 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications when 6-8 leaves are visible.
CEREALS	150-250 cc/100 L of water	3-4 L/Ha	Apply with the post emergence herbicides.
TROPICALS & BANANA TREES	150-250 cc/100 L of water	4-5 L/Ha	Apply at the beginning of tillering and flowering.
ORNAMENTALS	150-250 cc/100 L of water	3-4 L/Ha	Perform 3-4 applications spread over the crop cycle.
VINES	150-250 cc/100 L of water	4-5 L/Ha	Apply in preflowering and when the fruit reaches 7 mm.
OTHER CROPS	150-250 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.

### Aminoacid



### Peptide chain Primary structure



### Secondary structure







## TRIAMIN CaB

20 litres 5 litres 1 litre 500 ml

**Triamin CaB** is a special fertilizer with a high concentration in Nitrogen, which also contains Calcium and Boron. Its foliar or radicular application activates the growth mechanisms and improves the final fruits.

**Triamin CaB** is intended to be applied when plants need to revive their foliar mass or activate their root system. When this product is used, plants improve their coloring as well as their sugar contents.

### COMPOSITION

Free Amino Acids .....	7,1% w/w (9,2% w/v)
Calcium oxide (CaO) water-soluble .....	7,1% w/w (9,2% w/v)
Calcium oxide (CaO) complexed with AG .....	3,6% w/w (4,68% w/v)
Boron (B) water-soluble .....	0,18% w/w (0,23 w/v)
Total Nitrogen (N) .....	10 % w/w (13% w/v)
Organic Nitrogen (N) .....	1,3% w/w (1,65% w/v)
Nitric Nitrogen (N) nítrico .....	4,2% w/w (5,46% w/v)
Ureic Nitrogen (N) .....	4,5% w/w (5,85% w/v)
Density .....	1,2 g/cc
pH .....	6

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	200-300 cc/100 L of water	3-4 L/Ha	Perform 2-3 applications before and after flowering.
HORTICULTURALS	200 a 300 cc/100 L of water	4-5 L/Ha	Perform 3-4 applications spread over the crop cycle.
INDUSTRIALS	200 a 300 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications when 6-8 leaves are visible.
CEREALS	200 a 300 cc/100 L of water	2-3 L/Ha	Apply with the post emergence herbicides.
TROPICALS & BANANA TREES	200 a 300 cc/100 L of water	2-4 L/Ha	Perform applications from autumn to spring.
ORNAMENTALS	200 a 300 cc/100 L of water	3-4 L/Ha	Perform 3-4 applications spread over the crop cycle.
OLIVE TREE & VINE	200 a 300 cc/100 L of water	2-4 L/Ha	Apply in preflowering and when the fruit reaches 7 mm.
OTHER CROPS	200 a 300 cc/100 L of water	2-4 L/Ha	Perform 3-4 applications spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.



## TRIAMIN RADICULAR

20 litres 5 litres 1 litre 500 ml

**Triamin Radicular** is a biostimulant made from vegetal extracts, which contains the main essential amino acids to activate and enhance the root development of plants through the rapid cell division. Its high content in L-methionine, polysaccharides and other organic compounds, give it a collaborative character with auxines and cytokinins. As a result, an activation and stimulation of the vegetal growth and development is produced. The energy expenditure that plants need to synthesize proteins is avoided when the amino acids are applied directly.

### COMPOSITION

Free Amino Acids .....	7% w/w (8,75% w/v)
Total Amino Acids .....	17% w/w (21,25% w/v)
Peptides .....	10% w/w (12,5% w/v)
Total Nitrogen (N) .....	5% w/w (6,25% w/v)
Phosphorous (P <sub>2</sub> O <sub>5</sub> ) .....	6% w/w (7,5% w/v)
Potassium (K <sub>2</sub> O) .....	5% w/w (6,25% w/v)
Organic matter .....	20% w/w (25% w/v)
Organic carbon .....	11,6% w/w (14,5% w/v)
Relation C/N .....	4,26
Density .....	1,25 gr/cc

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	250-350 cc/100 L of water	6-8 L/Ha	Perform 2-4 applications before and after flowering.
HORTICULTURALS	250-350 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications after transplanting.
INDUSTRIALS	250-350 cc/100 L of water	4-6 L/Ha	Perform 2-3 applications spread over the crop cycle.
BANANA TREES	250-350 cc/100 L of water	4-6 L/Ha	Weekly applications in autumn and spring until dosage of 30 L/Ha.
CEREALS	250-350 cc/100 L of water	2-3 L/Ha	Apply with the post emergence herbicides.
ORNAMENTALS	250-350 cc/100 L of water	2-3 L/Ha	Perform 3-4 applications spread over the crop cycle.
OLIVE TREE & VINE	250-350 cc/100 L of water	2-4 L/Ha	Apply in preflowering and when the fruit reaches 7 mm.
TROPICALS	250-350 cc/100 L of water	3-6 L/Ha	Perform 3-5 applications spread over the crop cycle.
OTHER CROPS	250-350cc/100 L of water	2-4 L/Ha	Perform 3-4 applications spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.



## TRIAMIN RAC

1000 litres 220 litres 20 litres 5 litres 1 litre 500 ml

**Triamin Rac** is formulated with a high concentration in total amino acids, obtained by hydrolysis of proteins and is easily assimilated by plants. It is useful to apply when plants have suffered adverse conditions and when their biological or biochemical processes must be reactivated. It is also recommended for using with pesticide treatments, as on the one hand, increases the efficiency of these treatments and, on the other hand, minimizes the adverse effects that pesticides could produce.

### COMPOSITION

Total Amino Acids .....	42% (53.3% w/v)
Free Aminoacids .....	7% w/w (8.9% w/v)
Total Nitrogen (N) .....	6.4 % w/w (8.1% w/v)
Organic Nitrogen (N) .....	6.4% w/w (8.1% w/v)
Copper (Cu) complexed with AG .....	0.004% w/w (50 ppm)
Iron (Fe) complexed with AG .....	0.05% w/w (635 ppm)
Manganese (Mn) complexed with AG .....	0.03%w/w (381 ppm)
Molybdenum (Mo) water-soluble .....	0.001%w/w (12.7 ppm)
Zinc (Zn) complexed with AG .....	0.008 % w/w (0.01% w/v)
Density .....	1,27 g/cc
Complexing Agent .....	AG
Stability Interval of complexed fraction .....	3-9

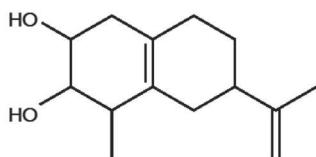
CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
CEREALS	250-350 cc/100 L of water	2-3 L/Ha	Apply with the post emergence herbicides.
FRUIT TREES & CITRUS	250-350 cc/100 L of water	6 L/Ha	Perform 2-4 applications before and after flowering.
HORTICULTURALS	250-350 cc/100 L of water	4-5 L/Ha	Perform 3-4 applications after transplanting.
INDUSTRIALS	250-350 cc/100 L of water	4-6 L/Ha	Perform 2-4 applications when 6-8 leaves are visible.
TROPICALS	250-350 cc/100 L of water	4-6 L/Ha	Perform 3-4 applications spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.

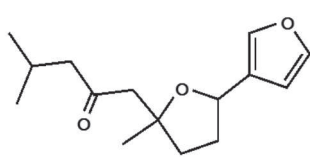


These booster products are specialized in activate crop defences. They are induced and systemic resistance inducers. They also boost the synthesis of phytoalexins and activate defences by providing an anti-bacterial and anti-fungal protection. They regenerate the vascular tissue (lignin synthesis).

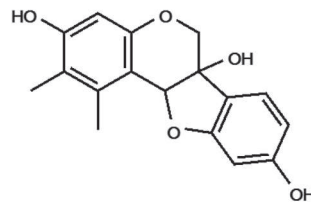
## Examples of identified phytoalexins



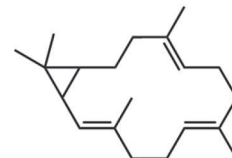
Risitina (Tomato)



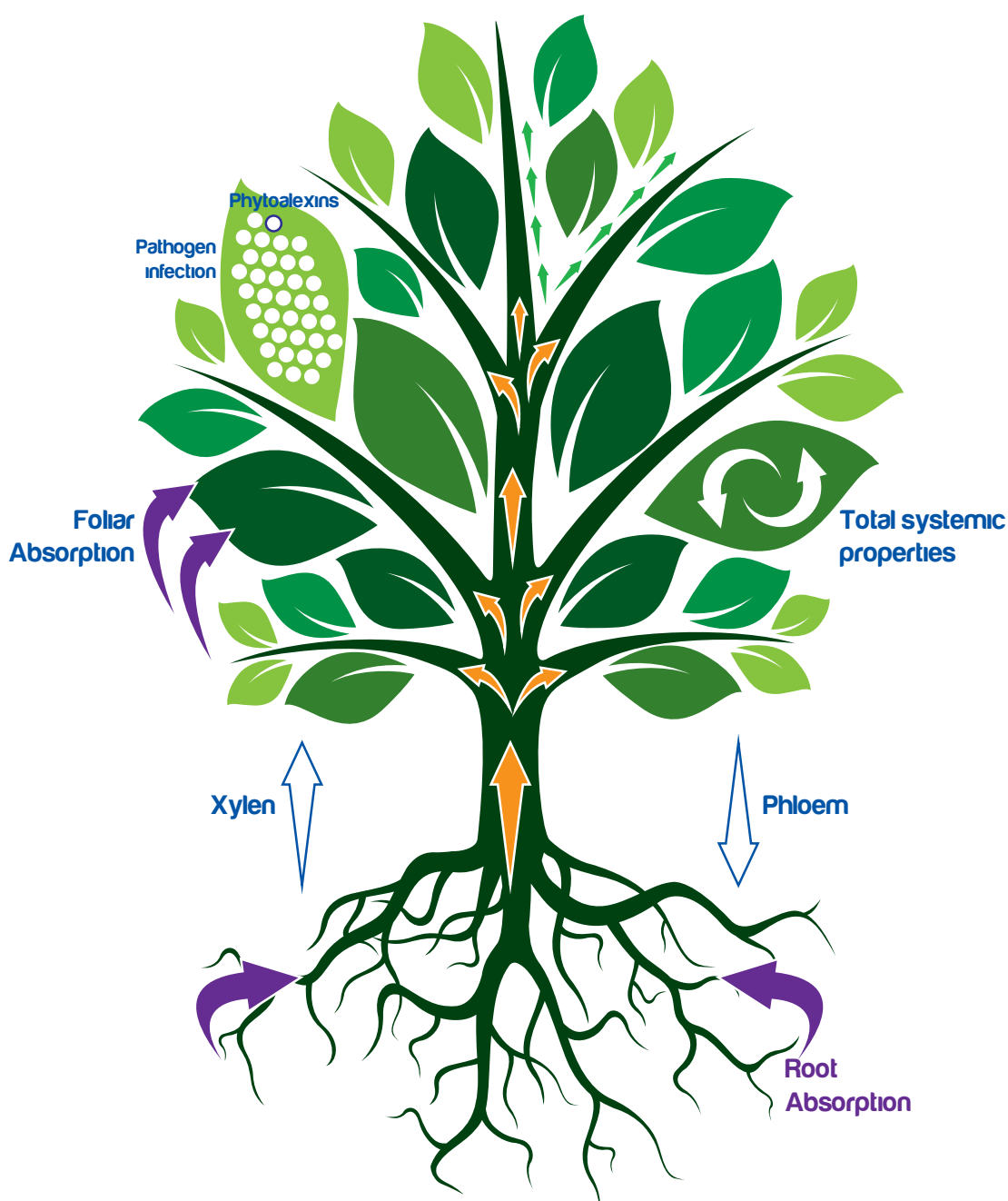
Ipomeamarona (Sweet potato)



Giginos (Soya)



Casbeno (Castor)



**LIGNOMIX**

**GLOPPER**

**ORSILIK**

**RANGE GRANFOL**





## LIGNOMIX



20 litres

5 litres

1 litre

500 ml

**Lignomix** is a product designed to prevent vascular fungus diseases and to regenerate the damaged vascular tissue. Indicated to be used in horticultural crops, fruit trees, vine and citrus. An ideal product that induces resistance against gummosis and watery situations.

### COMPOSITION

Complexed Copper with LS .....	2% (2.5% w/v)
Complexed Manganese with LS .....	1% w/w (1.2% w/v)
Complexed Zinc with LS .....	1% w/w (1.2% w/v)
Density .....	1,25 g/cc
Complexing Agent .....	LS
Stability Interval of complexed fraction .....	2-7,5

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	250-300 cc/100 L of water	3-5 L/Ha	2 Applications: 1 <sup>st</sup> in spring and 2 <sup>nd</sup> in autumn.
HORTICULTURAL	200-300 cc/100 L of water	1-3 L/Ha	2-3 Applications spread over the crop cycle.
CITRUS	250-300 cc/100 L of water	3-5 L/Ha	2 Applications: 1 <sup>st</sup> in spring and 2 <sup>nd</sup> in autumn.
TROPICALS	250-300 cc/100 L of water	3-5 L/Ha	2-3 Applications spread over the crop cycle.
OTHER CROPS	250-300 cc/100 L of water	1-3 L/Ha	2-3 Applications spread over the crop cycle.



## GLOPPER



20 litres

5 litres

1 litre

500 ml

**Glopper** is a complexed Copper with gluconic acid of systemic action, preventive and also promotes the plant defenses (phytoalexins). The Copper absorbed by the plant, strengthens the natural defence system and activates the phenol oxidase enzymes at the same time. This allows more phenolic compounds are available for lignification and the phytoalexins level increases too.

### COMPOSITION

Complexed Copper with AG .....	5.5% (7.1% w/v)
Density .....	1,3 g/cc
Complexing Agent .....	AG
Stability Interval of complexed fraction .....	2-9



Foto: Inhibitor action of complexed copper with gluconic acid in *X. Campestris* (a:100; b:80; c:60; d:40; e:20 g/l).

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
AROMATICS	150-200 cc/100 L of water	2-3 L/Ha	Apply when necessary.
CEREALS	150-300 cc/100 L of water	3-4 L/Ha	
CITRUS	200-300 cc/100 L of water	4.5 L/Ha	
FORESTRY	200-300 cc/100 L of water	4.5 L/Ha	
FRUIT TREES	200-300 cc/100 L of water	4.5 L/Ha	
HORTICULTURALS	150-250 cc/100 L of water	2-3 L/Ha	
INDUSTRIALS	150-250 cc/100 L of water	2-3 L/Ha	
ORNAMENTALS	150-250 cc/100 L of water	2-3 L/Ha	
TROPICALS	200-250 cc/100 L of water	3-6 L/Ha	

\*For OTHER CROPS out of the list, please, consult our Technical Department.



## ORSILIK

20 litres

5 litres

1 litre

500 ml

**Orsilik** is a soil biostimulant and fertilizer that provides many advantages related to Silicon. The roots easily absorb the silicon which is stored in the epidermis in such a way that the plant consistency and its pest and disease resistance increase.

**Orsilik** increases the tissue mechanical resistance, decreases the risks of lodging and the breakage damages as a result of handling, wind ... Besides, Orsilik improves the fertilization efficiency as some Phosphorus and Potassium are released in assimilable forms.

### COMPOSITION

Silicon Oxide (SiO <sub>2</sub> ) suspended in water .....	30% w/w (43.8% w/v)
Density .....	1,46 g/cc

CROP	DOSE SUELO	WAY & TIME OF APPLICATION
RICE	2 L/Ha	Perform 3 applications spread over the crop cycle.
CORN AND SOYA	2 L/Ha	Perform 2 applications spread over the crop cycle.
SUGAR CANE	2-3 L/Ha	Perform 3 applications spread over the crop cycle.
CEREALS	2-2.5 L/Ha	Apply before sowing with the fungicide.
FRUIT TREES	3 L/Ha	Perform 1 application at the beginning of winter and repeat it every 4 months.
STRAWBERRY & RASPBERRY	2.5 L/Ha	Perform 1 application every 4 months from sowing.
TROPICALS	3-4 L/Ha	Perform 2-3 applications from the beginning of winter to the beginning of summer.
CITRUS	3-4 L/Ha	
OLIVE TREE AND VINE	2.5-4 L/Ha	
HORTICULTURAL	2 L/Ha	Perform 2-3 applications from setting to the fruits ripening.
INDUSTRIALS	2.5-4 L/Ha	
ORNAMENTALS	1-2 L/Ha	
OTHER CROPS	2 L/Ha	





## GRANFOL-K\*

Product NOT commercialized in European Union

20 litres 5 litres 1 litre 500 ml

**Granfol-K** is a Phosphorus formulation as a phosphonate ion which contains Potash. Thanks to Potassium, these fruits are larger. The phosphonate ion fosters the natural resistance mechanisms in crops by the phytoalexins synthesis.

**Granfol-K** improves the xylem and phloem circulation and also improves the transport of substances strengthening the plant.

### COMPOSITION

Potassium phosphonate .....	760gr/l
Phosphorous (P <sub>2</sub> O <sub>5</sub> ) .....	32% w/w (44,8% w/v)
Potassium (K <sub>2</sub> O) .....	22% w/w (30,8% w/v)
Density .....	1,4 gr/cc

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES AND CITRUS	250-350 cc/100 L of water	4-5 L/Ha	Apply in spring (Mars, April) and in postharvest.
VINES	250-300 cc/100 L of water	3-5 L/Ha	Perform 2-3 applications from bud break.
HORTICULTURAL AND STRAWBERRIES	200-300 cc/100 L of water	6-7 L/Ha	Perform applications spread over the crop cycle.
INDUSTRIALS	250-300 cc/100 L of water	3-4 L/Ha	Perform 2 applications when enough foliar mass exits.
ORNAMENTALS	300 cc/100 L of water	5-6 L/Ha	Perform 2-3 applications in spring and autumn.
OTHER CROPS	250 cc/100 L of water	6 L/Ha	Perform 2-3 applications spread over the crop cycle.



## GRANFOL-Cu\*

Product NOT commercialized in European Union

20 litres 5 litres 1 litre 500 ml

**Granfol-Cu** is a Phosphorus formulation as a phosphonate ion and Copper. On the one hand, Phosphorus increases crop resistance and actively participates in respiration, synthesis and breakdown of carbohydrates, protein synthesis, etc. On the other hand, Copper is actively involved in photosynthesis process and promotes the construction of some enzymes too.

### COMPOSITION

Copper phosphonate .....	360 gr/l
Phosphorous (P <sub>2</sub> O <sub>5</sub> ) .....	25% w/w (32,5% w/v)
Copper (Cu) .....	2,5% w/w (3,25% w/v)
Total Nitrogen (N) .....	7% w/w (9,1% w/v)
Density .....	1,3 gr/cc

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES AND CITRUS	150-300 cc/100 L of water	4-5 L/Ha	Apply in spring (Mars, April) and in postharvest.
VINES	150-300 cc/100 L of water	3-5 L/Ha	Perform 2-3 applications from bud break.
HORTICULTURAL AND STRAWBERRIES	150-300 cc/100 L of water	6-7 L/Ha	Perform applications spread over the crop cycle.
INDUSTRIALS	150-300 cc/100 L of water	3-4 L/Ha	Perform 2 applications when enough foliar mass exits.
ORNAMENTALS	150-300 cc/100 L of water	5-6 L/Ha	Perform 2-3 applications in spring and autumn.
OTHER CROPS	150-300 cc/100 L of water	6 L/Ha	Perform 2-3 applications spread over the crop cycle.



## GRANFOL-CaB\*

Product NOT commercialized in European Union

20 litres 5 litres 1 litre 500 ml

**Granfol-CaB** is a Phosphorus liquid formulation as a phosphonate ion. This product has been designed to prevent the Calcium and Boron deficiencies in such a way that fruits achieve a better structure in their cell walls.

**Granfol-CaB** improves the xylem and phloems circulation and also enhances the substance transport, strengthening the plant.

### COMPOSITION

Calcium phosphonate .....	275 gr/l
Phosphorous (P <sub>2</sub> O <sub>5</sub> ) .....	15% w/w (19,5% w/v)
Calcium (Ca O) .....	6,5% w/w (8,45% w/v)
Boron (B) .....	0,3% w/w (0,39% w/v)
Density .....	1,3 gr/cc

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES AND CITRUS	150-300 cc/100 L of water	3-5 L/Ha	Perform 2-3 applications spread from bud break to 1 month before flowering.
VINES	150-300 cc/100 L of water	2-3 L/Ha	Perform 2-4 applications from fruits setting.
HORTICULTURAL & STRAWBERRIES	150-300 cc/100 L of water	3-4 L/Ha	Perform 4-5 applications spread over the crop cycle.
INDUSTRIALS	150-300 cc/100 L of water	2-3 L/Ha	Perform 3-4 applications spread over the crop cycle.
TROPICALS	150-300 cc/100 L of water	2-4 L/Ha	Perform 2-3 applications spread over preflowering and postharvest.
OTHER CROPS	150-300 cc/100 L of water	3-4 L/Ha	Perform 2-3 applications spread over the crop cycle.



## GRANFOL-MnZn\*

Product NOT commercialized in European Union

20 litres 5 litres 1 litre 500 ml

**Granfol-MnZn** is a Phosphorus liquid formulation as a phosphonate ion, thereby creating some natural selfdefences over plants metabolism. Granfol-MnZn improves the xylem and phloems circulation and also enhances the substance transport, strengthening the plant.

### COMPOSITION

Manganese- Zinc phosphonate .....	350 gr/l
Phosphorous (P <sub>2</sub> O <sub>5</sub> ) .....	15% w/w (20,7% w/v)
Manganese (Mn) .....	3% w/w (4,1% w/v)
Zinc (Zn) .....	5% w/w (6,9% w/v)
Ureic (N) Nitrogen .....	6% w/w (8,2% w/v)
Density .....	1,38 gr/cc

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES AND CITRUS	350-400 cc/100 L of water	3-5 L/Ha	Perform 2-3 applications spread over preflowering and postharvest.
VINES	250-300 cc/100 L of water	2-3 L/Ha	Perform 3-4 applications from bud break.
HORTICULTURAL & STRAWBERRIES	300-350 cc/100 L of water	3-4 L/Ha	Perform 4-5 applications spread over the crop cycle.
INDUSTRIALS	250-350 cc/100 L of water	2-3 L/Ha	Perform 3-4 applications spread over the crop cycle.
TROPICALS	250-350 cc/100 L of water	2-4 L/Ha	Perform 2-3 applications spread over preflowering and postharvest.
OTHER CROPS	250-300 cc/100 L of water	3-4 L/Ha	Perform 2-3 applications spread over the crop cycle.





These products are mainly developed to promote the effectiveness of phytosanitary and nutritional treatments. When water quality is corrected, ensuring a regular distribution of the product and a properly absorption in the action zone, the best results are achieved.

## REGÜES-pH

20 litres 5 litres 1 litre 500 ml 250 ml

**Regües-pH** is a liquid formulation which contains nutritive elements for plants and acts as a buffer regulating water pH. A regulated pH decreasing is needed to prevent the hydrolysis which leads to a partial ineffectiveness of treatments. Regües-pH is the solution for this problem. It has a pH indicator which shows the colorimetric measure to adjust.

### COMPOSITION

Phosphorous (P<sub>2</sub>O<sub>5</sub>) .....25% w/w (31,25% w/v) Density .....1,25 gr/cc  
Nitrogen (N) .....4% w/w (5% w/v) pH .....1,2

INITIAL WATER pH	FINAL WATER pH		
	50 cc / 100 L water	75 cc / 100 L water	100 cc / 100 L water
7 - 7,5	5,90	5,50	4,80
7,5 - 8	6,00	5,60	5,10
8 - 8,5	6,10	5,70	5,30
8,5 - 9	6,40	6,00	5,70

## ACISOL COMPLEX

20 litres 5 litres 1 litre 500 ml 250 ml

**Acisol Complex** is a formulation that significantly reduces water hardness, making treatments more effective. **Acisol Complex** chelates Calcium, responsible of water hardness, decreasing it to a beneficial level. To complete its action, **Acisol Complex** regulates pH of water treatment to an optimal level for the implementation of the different treatments. Furthermore, its buffer effect allows to keep pH at the desired level.

### COMPOSITION

Potassium Oxide (K<sub>2</sub>O) water soluble .....12% w/w (15,84% w/v)  
Density .....1,32 g/cc  
Chloride free  
Sodium free

HARDNESS (ppm CaCO <sub>3</sub> )	INTERPRETATION
75	Soft
75 - 150	Semi-hard
150 - 300	Hard
> 300	Very hard

CROP	DOSE FOLIAR	WAY & TIME OF APPLICATION
AROMATICS	100 cc/100 L of water	This product must be applied to the general dose of 1 cc/L of water, although this dose will depend on the PH and water hardness. It is recommended to compare with the colorimetric guide of PH, in order to approximate it to the optimum PH treatment that is between 4.5 to 5. Thanks to the PH indicator incorporated into his formulation, we appreciate a coloration in yellow (PH 5) or soft pink (pH 4.5).
CEREALS	100 cc/100 L of water	
CITRUS	100 cc/100 L of water	
FORESTRY	100 cc/100 L of water	
FRUIT TREES	100 cc/100 L of water	
HORTICULTURALS	100 cc/100 L of water	
INDUSTRIALS	100 cc/100 L of water	
ORNAMENTALS	100 cc/100 L of water	
TROPICALS	100 cc/100 L of water	

\*For OTHER CROPS out of the list, please, consult our Technical Department.

## LUMIK



20 litres 5 litres 1 litre 500 ml 250 ml

**Lumik** Booster of phytosanitary treatments. Thanks to its special composition, Lumik has very strong effects in the treatment effectiveness:

- Decrease surface tension and water drop size, ensuring an uniform distribution and optimizing the product usage.
- Dirt dispersion (cleaner effect): Dissolution and cleaning of honeydew produced by several insects such as aphids, scale insects, psillas, trialeurodes, aprigones, etc.) and other insect residues (spider mites web), that limit the treatment effectiveness.
- Penetrating effect: Lumik is able to penetrate in the leaf surface besides any nutritive cations of plants: Iron, Manganese, Zinc, Magnesium, Calcium... It adds other elements that act as phytosanitary and biopesticide "carriers" in such a way that enables its incorporation to the leaf surface, bacterial cell, fungalar cell and cuticle of insects.
- Lumik is enriched with phenolic substances of vegetal origin.
- Solubilizer and dispersant effect: Thanks to the polar and unpolar properties of Lumik components, the product is uniformly distributed all over the treated water, being encapsulated. This allows the treatment be also uniform all over the treated surface.
- Evaporation reduction: it is due to a monolayer creation on the water surface by the surfactant.

### COMPOSITION

Complexed Zn with AG .....1,3% w/w /1,4% w/v  
Complexed Mn with AG .....0,7% w/w /0,75% w/v  
Density .....1,08 g/cc  
Stability Interval of complexed fraction : pH 2-10

CROP	DOSE	DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	3-4 cc/ L of water	1,5 cc/ L of water	Apply the product to the general dose of 1-1.5 cc/L of water
BANANA TREES & TROPICALS	3-4 cc/L of water	1,5 cc/L of water	
HORTICULTURAL & STRAWBERRIES	2-3 cc/L of water	1-1,25 cc/L of water	Maximum dose of 2cc/L of water has to be respected
INDUSTRIALS	2-3 cc/L of water	1-1,25 cc/L of water	
ORNAMENTALS AND ROSES	2-2,5 cc/L of water	1 cc/L of water	Use it by addition of the product to the mixer tank.
OTHER CROPS	2-4 cc/L of water	1-1,5 cc/L of water	



Foto: Treated water with Lumik 1 cc/l

Testigo



The Fertimix and Fertimicro products have been mainly designed to prevent crop deficiencies during any of its phenological development stages. Chelating and complexing agents have been introduced in their formulation in order to ensure their quick absorption by crops, maximizing their effectiveness and efficiency.

## CALPOWER

20 litres 5 litres 1 litre 500 ml

**Calpower** is a new liquid formulation with a high Calcium concentration. Calcium incorporates cyclic acids to its composition, forming a stable structural net that easily penetrates into the fruit. **Calpower** stands out for its very high absorption power and for reaching the affected area directly.

### COMPOSITION

Calcium oxide (CaO) complexed with AG .....1,5% w/w (2,2% w/v)  
Calcium oxide (CaO) complexed with LS .....13,5% w/w (20,25% w/v)  
Density .....1,5 g/cc  
Complexing Agents AG, LS  
Stability interval of complexed fraction pH: 2-8



CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
PIP FRUIT TREES (APPLE)	2 L/Ha	Perform 4-6 applications.
STONE FRUIT TREES (NECTARINE, APRICOT...)	2 L/Ha	Perform 4-6 applications.
TOMATO	2 L/Ha	Perform applications every 15 days according to the crop requirement.
VEGETABLES (CELERY, CAULIFLOWER...)	2 L/Ha	Perform 2 applications.
STRAWBERRIES & RASPBERRIES	2 L/Ha	Perform 2-4 applications.
BANANA TREES	2 L/Ha	Perform 4-6 applications.
CITRUS	2 L/Ha	Perform 4-6 applications.
OTHER CROPS	2 L/Ha	Perform 4 applications every 15 days.

\*This recommended dosage could vary according to the soil type and its fertility.

## FERTIMICRO

20 litres 5 litres 1 litre 500 ml

**Fertimicro** is a liquid product, balanced in its microelement proportions which are chelated with gluconic acid, preventing from interactions with other chemical compounds.

Due to the different chelations, a very wide range of pH: from pH2 to pH10 could be reached. This product can be used in hydroponic situations as well as in very basic soils.

### COMPOSITION

Boron (B) Water-soluble .....0,4% w/w (0,55% w/v)  
Copper (Cu) complexed with AG .....0,41% w/w (0,56% w/v)  
Iron (Fe) complexed with AG .....5,25% w/w (7,24% w/v)  
Manganese (Mn) complexed with AG .....3,1%w/w (4,27%w/v)  
Molybden (Mo) water-soluble .....0,1%w/w (0,138%w/v)  
Zinc (Zn) complexed with AG .....0,8% w/w (1,1% w/v)  
Density .....1,38 g/cc  
Complexing Agents AG  
Stability interval of chelate 2-10

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
CITRUS	100-200 cc/100 L of water	1-3 L/Ha & week	Perform in the spring bud break and in summer.
HORTICULTURALS	100-150 cc/100 L of water	2-3 L/Ha & week	Perform from 10 days before flowering to 1 month before harvest.
HYDROPONIC CROPS	100-150 cc/100 L of water	2,5-3,5 L/m <sup>3</sup> of stock solution (1:100)	Perform spread over the crop cycle.
STRAWBERRIES, RASPBERRIES...	100-150 cc/100 L of water	2-4 L/Ha & week	Perform from 20 days after transplanting.
FRUIT TREES	100-200 cc/100 L of water	1-2 L/Ha & week	Perform from the beginning of the bud break to the shoot development.
TROPICALS	150-200 cc/100 L of water	4-5 L/Ha & week	Perform at the end of winter and at the end of summer.
ORNAMENTALS	100-120 cc/100 L of water	3-4 L/Ha & week	Perform preferably by soil, spread over the crop cycle.
OTHER CROPS	100-300 cc/100 L of water	2-4 L/Ha & week	Peerform spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.

## FERTIMIX CITRUS

20 litres 5 litres 1 litre 500 ml

**Fertimix Citrus** is an organic liquid product, based on a complex of Manganese, Iron and Zinc all them complexed with lignosulfonate. It specially pretends to amend the lacks in citrus and fruit crops. Thanks to the properties of its complexing agents, this product encourages root assimilation and is quickly distributed all over the plant organs.

### COMPOSITION

Iron (Fe) complexed with LS ..... 2,3% w/w (2,7% w/v)  
Manganese (Mn) complexed with LS .....2,1% w/w (2,5% w/v)  
Zinc (Zn) complexed with LS ..... 2,3% w/w (2,7% w/v)  
Density .....1,2 g/cc  
Complexing Agents LS  
Stability of complexed fraction 2-9,5

CROP	DOSE FOLIAR (cc/100 L of water)	DOSE SUELO (L/Ha aplicación)	WAY & TIME OF APPLICATION
VINES	250 - 300	8-10	Frequent applications from bud break to the onset of ripening.
CITRUS	150-250	8-10	Perform 4-6 applications from petals fall to 1 month before harvest.
FRUIT TREES	200-300	8-10	Perform 4-6 applications from firsts leaves to the ripening.
BANANA TREES	200-250	8-10	Perform 4-6 applications in spring and summer.
STRAWBERRIES & RASPBERRIES	150-200	8-10	Perform applications every 21 days from the beginning of bud break to ripening.
HORTICULTURALS	150-200	8-10	Perform applications every 21 days from the beginning of the foliage.
ORNAMENTALS	100-200	8-10	Perform 4-6 applications spread over the plant growth.

\*This recommended dosage could vary according to the soil type and its fertility.



## FERTIMIX-Mg

20 litres 5 litres 1 litre 500 ml

**Fertimix-Mg** is a formulate with Magnesium complexed with heptagluconic acid. Due to its composition, it is able to be absorbed by leaves and roots, as this product is stable in a pH range from 2 to 11. The Magnesium is a key element: being part of chlorophyll, taking part in carbohydrates creation, increasing plant resilience against adverse climatic conditions, providing atmospheric Nitrogen fixation, activating enzymatic processes...

### COMPOSITION

Magnesium Oxide (MgO) complexed with AG .....8% w/w (10,4% w/v)  
Density ..... 1,3 g/cc  
Complexing Agents AG  
Interval of complexed fraction 2-11

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
CITRUS & FRUIT TREES	150 -250 cc/100 L of water	4-6 L/Ha	Apply in the early signs of internervel yellowing, a signal of the magnesium deficiency.
VINES & OLIVE TREE	150 -250 cc/100 L of water	4-6 L/Ha	
HORTICULTURALS	150 -250 cc/100 L of water	4-6 L/Ha	
INDUSTRIALS	150 -250 cc/100 L of water	4-6 L/Ha	
STRAWBERRIES	150 -250 cc/100 L of water	4-6 L/Ha	
BANANA TREES	150 -250 cc/100 L of water	4-6 L/Ha	
OTHER CROP	150 -250 cc/100 L of water	4-6 L/Ha	

\*This recommended dosage could vary according to the soil type and its fertility.



## FERTIMIX-ZnMn



20 litres 5 litres 1 litre 500 ml

**Fertimix-ZnMn** is a fertilizer that, due to its balanced composition of Zinc (70 gr/L.) and Manganese (35 gr/L.), covers the preventive and curative needs, when deficiency problems appear in plants. This product is complexed with gluconic acid. Zinc, as an essential element, acts in nucleic acid synthesis of the plant as an enzyme cofactor and also acts in the auxine metabolism.

Manganese mainly acts in the chlorophyll and protein synthesis and in photosynthesis.

### COMPOSITION

Zinc (Zn) complexed with AG .....5% w/w (7% w/v)  
Manganese (Mn) complexed with AG .....2,5% w/w (3,5% w/v)  
Density .....1,4 g/cc  
Complexing Agents AG  
Interval of complexed fraction 2-10

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
CITRUS	200-300 cc/100 L of water	2-4 L/Ha	Perform 2-4 applications spread over spring and summer bud breaks when leaves reach 2/3 of his size.
FRUIT TREES	150-300 cc/100 L of water	2-4 L/Ha	Perform 2-4 applications spread over spring and summer bud breaks when leaves reach 2/3 of his size.
VINES	100-200 cc/100 L of water	2-3 L/Ha	Perform 2-3 applications before flowering and after setting.
HORTICULTURALS & STRAWBERRIES	150-300 cc/100 L of water	3-4 L/Ha	Perform 3-4 applications mainly before flowering.
INDUSTRIALS	200-300 cc/100 L of water	2-3 L/Ha	Perform 2-3 applications when plants have more than 6 visible leaves.
HYDROPONIC CROPS	150-250 cc/100 L of water	2,5-3,5 L/Ha	Perform weekly as needed.
TROPICALS	200-400 cc/100 L of water	3-4 L/Ha	Perform at the end of winter and summer.
OTHER CROPS	150-400 cc/100 L of water	2-4 L/Ha	Perform several applications when there is enough foliar mass.

\*This recommended dosage could vary according to the soil type and its fertility.



## FERTIMIX-CaB

20 litres 5 litres 1 litre 500 ml

**Fertimix-CaB** increases Calcium fixation in plants and fruits thanks to the penetrating agents and Boron. Calcium is involved in proteins and carbohydrates transport as well as in cellular division. Boron actives and increases the Calcium absorption.

### COMPOSITION

Calcium oxide (CaO) complexed with AG .....11% w/w (15,4% w/v)  
Boron (B) water-soluble .....1% w/w (1,4% w/v)  
Density .....1,4 g/cc  
Complexing Agents AG  
Stability of complexed fraction pH 2,5-10,5

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	300-400 cc/100 L of water	4-6 L/Ha y aplicación	Perform 3-4 applications from just setting fruits and every 15 days.
HORTICULTURALS	150-300 cc/100 L of water	5-7 L/Ha & week	Perform several applications as needed every 15 days.
STRAWBERRIES & RASPBERRIES	200-300 cc/100 L of water	4-6 L/Ha & week	Perform several applications every 15 days.
BANANA TREES	200-300 cc/100 L of water	6-8 L/Ha & week	Perform 2 applications at the end of winter.
INDUSTRIALS	100-200 cc/100 L of water	2-4 L/Ha & week	Perform 2-3 applications from the crop covers the ground.
OTHER CROPS	200-300 cc/100 L of water	3-5 L/Ha & week	Perform 2-3 applications from just setting fruits.

\*This recommended dosage could vary according to the soil type and its fertility.



## FERTIMIX-Fe

20 litres 5 litres 1 litre 500 ml

**Fertimix-Fe** is a liquid product formulated with gluconic acid for the preventive and curative control of iron chlorosis. The main functions of Iron in plants are the following: chlorophyll and protein formation, nitrogen fixation and, finally it also acts in breathing process.

### COMPOSITION

Iron (Fe) complexed with AG .....7% w/w (9,9% w/v)  
Density .....1,42 g/cc  
Complexing Agents AG  
Stability of complexed fraction pH 2-10

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	150-200 cc/100 L of water	2-3 L/Ha	Perform 3-4 applications from the beginning of bud break.
HORTICULTURALS & STRAWBERRIES	200-300 cc/100 L of water	2,5-3 L/Ha	Perform 4-5 applications from transplanting.
HYDROPONIC CROPS	150-250 cc/100 L of water	2-3 L/m <sup>3</sup> of stock solution (1:100)	Perform 1 weekly application until 1 month before harvest.
VINES	150-250 cc/100 L of water	2-2,5 L/Ha	Perform 2-3 applications from the beginning of bud break.
CITRUS	200-250 cc/100 L of water	2-3 L/Ha	Perform 2-3 applications spread over spring and summer bud break.
ORNAMENTALS	50-100 cc/100 L of water	1,5-2 L/Ha	Perform 2-3 applications preferably before flowering.
BANANA TREES & TROPICALS	200-250 cc/100 L of water	3-5 L/Ha	Perform 2-4 applications spread over the end of winter and the end of summer.
OTHER CROPS	150-300 cc/100 L of water	2-3 L/Ha	Perform 2-3 applications from the beginning of cultivation.

\*This recommended dosage could vary according to the soil type and its fertility.





## FERTIMIX-B

**Fertimix-B** is a liquid formulation of Boron complexed with ethanolamine. In plants, Boron is absorbed as boric acid. It is involved in some processes such as the meristematic growth. Also it promotes fertilization and regulates cell division. It should be pointed out that up to 50% of Boron in plants is located in their cell walls. Poor growth, death in the bud flower, fruit and flower malformations, fibrous and hollowed root systems, darkening of tissues... are some of the damages the deficiencies of this element can cause.

### COMPOSITION

Boron (B) .....10,5% w/w (14,17% w/v)  
Density .....1,35 gr/cc

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & VINES	200-300 cc/100 L of water	2-3 L/Ha	Perform in preflowering and after setting.
OLIVE TREE	250-300 cc/100 L of water	2-4 L/Ha	Perform before flowering and in autumn.
BEET, CARROT, COTTON, ETC	150-250 cc/100 L of water	2-4 L/Ha	Perform 2 applications before planting and when the crop covers the ground.
ALFALFA	150-250 cc/100 L of water	1,5-2 L/Ha	Perform after every cut with 10-15 cm height.
HORTICULTURALS	150-200 cc/100 L of water	1,5-2 L/Ha	Perform before cultivation or when crop has enough foliar mass.
STRAWBERRIES	150-200 cc/100 L of water	2-3 L/Ha	Perform applications before flowering and with fruit ripening.
BANANA TREES	200-250 cc/100 L of water	2-4 L/Ha	Perform applications in spring and autumn.
OTHER CROPS	100-200 cc/100 L of water	1,5-3 L/Ha	Perform before cultivation and when crop has enough foliar mass.

\*This recommended dosage could vary according to the soil type and its fertility.



## FERTIMIX-Mo



**Fertimix-Mo** is a water-soluble Molybdenum corrector, with Nitrogen (N) and Phosphorus ( $P_2O_5$ ). The presence of Phosphorus facilitates Molybdenum absorption, which takes part of the two required enzymes for the Nitrogen assimilation: nitrogenase and reductase nitrate. Molybdenum plays a key role in the process of fruit setting.

The most effective way to apply Fertimix-Mo is via foliar. The most demanding crops for this element are cucurbits, crucifers, legumes, some fruit trees and some ornamentals as well.

### COMPOSITION

Phosphorous ( $P_2O_5$ ) .....18% w/w (25,2% w/v)  
Nitrogen (N) .....3% w/w (4,2% w/v)  
Molybdenum (Mo) .....4,8% w/w (6,7% w/v)  
Density .....1,4 gr/cc  
pH .....4,2

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
CUCURBITACEAES: MELON, WATERMELON, CUCUMBER & COURGETTE	100-150 cc/100 L of water	Apply 10 days before foliation.
CRUCIFEROUS	100-150 cc/100 L of water	Apply when 6-8 leaves are visible.
LEGUMES	150-200 cc/100 L of water	Apply when the plant reaches 10 cm height.
ALFALFA	150-200 cc/100 L of water	Apply after every cut.
FRUIT TREES	100-150 cc/100 L of water	Apply in prefoliation.
ORNAMENTALS	100-150 cc/100 L of water	Apply before flowering.
TOMATO, LETTUCE & SPINACHS	150-200 cc/100 L of water	Apply from the first performed leaves.
OTHER CROPS	150-300 cc/100 L of water	Perform 1-2 applications from 4-5 visible leaves.

\*This recommended dosage could vary according to the soil type and its fertility.



## FERTIMIX-Zn



**Fertimix-Zn** is a liquid product complexed with gluconic acid, which is able to mend the Zinc deficiencies: either by leaves or by roots. It is assimilated by all the plant organs quickly.

The role of Zinc in plants is essential in nucleic acid synthesis, in auxins metabolism and in the growth hormones. Due to its formulation, as **Fertimix-Zn** is stable in a pH from 2 to 10, this product can be applied in basic soils.

### COMPOSITION

Zinc (Zn) complexed with AG .....7,5% w/w (10,6% w/v)  
Density .....1,42 g/cc  
Complexing Agents AG  
Stability of complexed fraction pH 2-10

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
CITRUS	200-350 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications spread over spring and summer bud breaks.
FRUIT TREES	200-300 cc/100 L of water	3-4 L/Ha	Perform 2 applications in spring bud break.
HORTICULTURALS	150-250 cc/100 L of water	2-3 L/Ha	Perform 2-3 applications spread over the crop cycle.
CEREALS	150-250 cc/100 L of water	3-4 L/Ha	Perform 1 application when the plant has 4-8 visible leaves.
INDUSTRIALS	200-250 cc/100 L of water	2-3 L/Ha	Perform 2 applications when plant has more than 20 cm height.
TROPICALS	200-250 cc/100 L of water	3-6 L/Ha	Perform at the end of winter and at the end of summer.
OTHER CROPS	150-300 cc/100 L of water	3-5 L/Ha	Perform 2-3 applications when crop has enough foliar mass.

\*This recommended dosage could vary according to the soil type and its fertility.



## FERTIMIX-Mn



**Fertimix-Mn** is a product complexed with gluconic acid which is able to mend the Manganese deficiencies either by leaves or roots. It is assimilated by all the plant organs quickly.

The role of Manganese in plants is essential as participates in chlorophyll synthesis, photosynthesis, the nitrates reduction and protein synthesis.

Due to its formulation, Fertimix-Mn, can be applied in basic soils.

### COMPOSITION

Manganese (Mn) complexed with AG .....7,5% w/w (10,8% w/v)  
Density .....1,45 g/cc  
Complexing Agents AG  
Stability of complexed fraction 2-10

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
CITRUS	200-350 cc/100 L of water	4-5 L/Ha	Perform 2-3 applications spread over spring and summer bud breaks.
FRUIT TREES	200-300 cc/100 L of water	3-4 L/Ha	Perform 2 applications in spring bud break.
HORTICULTURALS	150-250 cc/100 L of water	2-3 L/Ha	Perform 2-3 applications spread over the crop cycle.
CEREALS	150-250 cc/100 L of water	3-4 L/Ha	Perform 1 application when the plant has 4-8 visible leaves.
INDUSTRIALS	200-250 cc/100 L of water	2-3 L/Ha	Perform 2 applications when plant has more than 20 cm height.
TROPICALS	200-250 cc/100 L of water	3-6 L/Ha	Perform at the end of winter and at the end of summer.
OTHER CROPS	150-300 cc/100 L of water	3-5 L/Ha	Perform 2-3 applications when crop has enough foliar mass.

\*This recommended dosage could vary according to the soil type and its fertility.



FORQUELAT is formulated with stabilized iron chelated with EDDHA and 80% ortho-ortho isomer. It guarantees the chelate stability in soils in an extensive pH range: from 3 to 11, allowing the availability for plants. An Iron correct dosage increases the crop photosynthetic capacity, while at the same time increasing its performance, the amount of fruits per tree as well as its filling capacity.



## FORQUELAT

5kg 1kg

**Forquelat** range products are formulated with stabilized iron chelated with EDDHA. They contain a percentage of ortho-ortho isomer between 3.5 % and 4.8%.

<b>FORQUELAT</b>	Iron (Fe) EDDHA ortho-ortho isomer	3,5% w/w
<b>FORQUELAT W</b>	Iron (Fe) EDDHA ortho-ortho isomer	4,2% w/w
<b>FORQUELAT +</b>	Iron (Fe) EDDHA ortho-ortho isomer	4,8% w/w

### COMPOSITION

Iron (Fe) water-soluble .....	6% w/w
Iron (Fe) fracción quelada .....	100% w/w
pH .....	(1:2,5) 6,5
Stability range of the complexed fraction: pH between 3 and 11.	

CROP	DOSE	WAY & TIME OF APPLICATION
YOUNG PLANTS	De 10-20 gr/plant	Apply at the beginning of bud break.
FRUIT TREES & CITRUS	De 50-150 gr/plant	Apply before spring bud break.
YOUNG VINES	De 7-15 gr/plant	Apply at the beginning of bud break.
ADULT VINES	De 15-30 gr/plant	Apply before bud break.
HORTICULTURALS & STRAWBERRIES	De 2-3 Kg/1.000 m <sup>2</sup>	Apply spread over the crop cycle.
ORNAMENTALS & PLAN NURSERIES	De 2,5-4 Kg/1.000 m <sup>2</sup>	Apply before flowering.
TROPICALS & BANANA TREES	De 20-50 gr/plant	Apply in spring and autumn.
OTHER CROPS	De 3-5 Kg/1.000 m <sup>2</sup>	Apply spread over the crop cycle.

\*This recommended dosage could vary according to the soil type and its fertility.



## FORQUELAT +



5kg 1kg

**Forquelat+** is formulated with stabilized iron chelated with EDDHA. It contains 4.8% ortho-ortho isomer. Stability in soils is very wide with an extensive pH range: from 3 to 11, allowing the availability for plants.

### COMPOSITION

Iron (Fe) water-soluble .....	6% w/w
Iron (Fe) chelated fraction .....	100% w/w
Iron (Fe) chelated with EDDHA ortho-ortho isomer .....	4,8% w/w
Stability range of the chelated fraction: .....	3-11

CROP	DOSE	WAY & TIME OF APPLICATION
AROMATICS	1,3-2,3 Kg/1000 m <sup>2</sup>	Apply spread over the crop cycle and as needed.
CEREALS	1,3-2,3 Kg/1000 m <sup>2</sup>	Apply spread over the crop cycle and as needed.
CITRUS	15-45 g/plant	Apply in spring preflowering.
FORESTRY	15-45 g/plant	Apply spread over the crop cycle and as needed.
FRUIT TREES	15-45 g/plant	Apply in spring preflowering.
HORTICULTURALS	1,3-2,3 Kg/1000 m <sup>2</sup>	Apply spread over the crop cycle and as needed.
INDUSTRIALS	1,3-2,3 Kg/1000 m <sup>2</sup>	Apply spread over the crop cycle and as needed.
ORNAMENTALS	1,8-3,3 Kg/1000 m <sup>2</sup>	Apply before flowering.
TROPICALS	15-45 g/plant	Apply spread over the crop cycle and as needed.

\*This recommended dosage could vary according to the soil type and its fertility.

\*For OTHER CROPS out of the list, please, consult our Technical Department.



These liquid or solid products have been developed with the aim of providing the essential nutrients needed to encourage fattening and fruit filling.



## FORTIK SOLID

25kg 5kg 1kg

**Fortik Solid** is the recommended product when the main purpose is leading to an increase in production by improving the capacity of fruit filling, without reducing resistance of the cell walls. Besides, thanks to Magnesium takes part of its composition, **Fortik Solid** prevents deficiencies from this secondary element, which are common in Potassium applications.

### COMPOSITION

Total Nitrogen (N) .....	3% w/w
Potassium oxide (K <sub>2</sub> O) .....	40% w/w
Boron (B) .....	0,5% w/w
Magnesium (MgO) .....	2% w/w
Free of chlorides	

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	1.5-2 gr/L	Perform 2-3 applications in the ripening stage.
INDUSTRIALS	(2kg/ha)	Perform 2-3 applications in the last 4-6 weeks of crop cycle.
OLIVE TREE	1.5-2 gr/L	Perform 2-3 applications from 1-2 month before harvest.
VINES	(2kg/ha)	Perform 3 applications: 1st just before ripening and the other 2 in 10-15 days.
HORTICULTURALS & STRAWBERRIES	1.5-2 gr/L	Perform 3-4 applications spread some days before harvest.

Application by fertirrigation: 3-5 kg/ha

\*This recommended dosage could vary according to the soil type and its fertility.



## FORTIK 40

20 litres 5 litres 1 litre 500 ml

**Fortik 40** is a new formulation with a high Potassium concentration, providing plants a higher resistance to the external agents attack, such as frosts, droughts and diseases. Thanks to the presence of some penetrating agents in its composition, this is a fast assimilation product by means of a foliar or a soil way. When is applied, the ripening process is faster and fruits are heavier.

### COMPOSITION

Potassium oxide (K <sub>2</sub> O) water-soluble .....	28% w/w (40% w/v)
Density .....	1,43 g/cc
Free of chlorides	

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
AROMATICS	150-250 cc/100 L of water	4-6 L / Ha	Perform applications as needed.
CEREALS	200-400 cc/100 L of water	4-6 L / Ha	Perform several applications every 15 days as needed.
CITRUS	100-250 cc/100 L of water	6-8 L / Ha	Perform 3-4 applications from just setting fruits every 15 days.
FORESTRY	100-250 cc/100 L of water	6-8 L / Ha	Perform 3-4 applications from just setting fruits every 15 days.
FRUIT TREES	100-250 cc/100 L of water	6-8 L / Ha	Perform 3-4 applications from just setting fruits every 15 days.
HORTICULTURALS	150-200 cc/100 L of water	4-6 L / Ha	Perform 2-3 applications from the crop covers the ground.
INDUSTRIALS	150-250 cc/100 L of water	4-6 L / Ha	Perform several applications every 15 days as needed.
ORNAMENTALS	150-250 cc/100 L of water	4-6 L / Ha	Perform applications as needed.
TROPICALS	200-400 cc/100 L of water	3-4 L / Ha	Perform several applications every 15 days as needed.

\*This recommended dosage could vary according to the soil type and its fertility.

\*For OTHER CROPS out of the list, please, consult our Technical Department.



## SPRINTER-K

20 litres 5 litres 1 litre 500 ml

**Sprinter-K** contains a high percentage of Potassium (444 gr/L de K<sub>2</sub>O), which attached to Nitrogen and the chelate agent (EDTA), leads to the fastest absorption as in a foliar or in a ferrigation way. It is recommended in those crops with a high sugar content and also in crops which are cultivated thanks to their carbohydrates reserves. When **Sprinter-K** is applied, plant resistance to cold, salinity and pests improves. Furthermore, this product is also involved in photosynthesis and thus favouring the carbohydrates synthesis and increasing the sugar accumulation.

### COMPOSITION

Ureic Nitrogen (N) .....	4% w/w (5,92% w/v)
Potassium (K <sub>2</sub> O) .....	30% w/w (44,4% w/v)
Density .....	1,48 gr/cc
Free of chlorides	

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	100-250 cc/100 L of water	6-8 L / Ha	Perform 2-3 applications in the ripening stage.
INDUSTRIALS	150-250 cc/100 L of water	4-6 L / Ha	Perform 2-3 applications in the last 4-6 weeks of crop cycle.
OLIVE TREE	200-300 cc/100 L of water	4-5 L / Ha	Perform 2-3 applications from 1-2 month before harvest.
VINES	150-200 cc/100 L of water	5-7 L / Ha	Perform 3 applications: 1st just before ripening and the other 2 in 10-15 days.
HORTICULTURALS & STRAWBERRIES	150-200 cc/100 L of water	4-6 L / Ha	Perform 3-4 applications spread before harvest.

\*This recommended dosage could vary according to the soil type and its fertility.

# Solid nutrients



These products, which are 100% soluble, are inductors of bud break, flowering and ripening. They are enriched with micronutrients, amino acids, organic acids, polysaccharides and natural synergists of plant origin.



## BROTTADOR

25kg 5kg 1kg

**Brottador** is a quick growth promoter, specially recommended in the sprouting stage. Its high ureic Nitrogen content, free of biuret, besides its balanced composition of chelated microelements, makes it the most suitable product for improving any crop.

### COMPOSITION

Ureic Nitrogen (N) .....	42% w/w	Iron (Fe) .....	0,02% w/w
Free Aminoacids .....	2% w/w	Manganese (Mn) .....	0,02% w/w
Boron (B) .....	0,02% w/w	Molybdenum (Mo) .....	0,005% w/w
Copper (Cu) .....	0,02% w/w	Zinc (Zn) .....	0,02% w/w

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	2-3 Kg/Ha	Apply monthly until fruiting.
HORTICULTURALS	2-3 Kg/Ha	Apply every 15 days from seeding until flowering.
CEREALS	2-3 Kg/Ha	Apply with the post emergency herbicide.
INDUSTRIALS	2-3 Kg/Ha	Apply every 15 days from seeding until flowering.
TROPICALS	2-3 Kg/Ha	Apply every 15 days from seeding until flowering.

Application by fertirrigation: 4-5kg/ha.

\*This recommended dosage could vary according to the soil type and its fertility.



## FLORADDOR

25kg 5kg 1kg

**Floraddor** is a fertilizer designed to improve flowering and fruit setting, by combining several essential nutrients, such as Phosphorus, Boron, Molybdenum, Calcium and antioxidants and enhancers, which main purpose is to promote fertilization and cell division.

### COMPOSITION

Phosphorous (P <sub>2</sub> O <sub>5</sub> ) water-soluble ...	30% w/w	Boron (B) water-soluble .....	0,5% w/w
Potassium (K <sub>2</sub> O) water-soluble .....	5% w/w	Molybdenum (Mo) water-soluble .....	1% w/w
Calcium (CaO) water-soluble .....	4% w/w		

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	2-3 Kg/Ha	3-4 Kg/Ha	Apply in preflowering In continuous production crops apply weekly from the beginning of flowering.
HORTICULTURALS	2-3 Kg/Ha	3-4 Kg/Ha	
CEREALS	2-3 Kg/Ha	3-4 Kg/Ha	
INDUSTRIALS	2-3 Kg/Ha	3-4 Kg/Ha	
TROPICALS	2-3 Kg/Ha	3-4 Kg/Ha	

\*This recommended dosage could vary according to the soil type and its fertility.



## MADDURADOR

25kg 5kg 1kg

**Maddurador** is a balanced product in its composition. The aim of this product is to improve the fruit ripening process with no deterioration in its quality.

**Maddurador** is quickly assimilated by plant in an effective way either through its foliar mass or through fruit epidermis.

### COMPOSITION

Phosphorous (P <sub>2</sub> O <sub>5</sub> ) water-soluble ...	5% w/w	Manganese (Mn) water-soluble ..	0,05% w/w
Potassium (K <sub>2</sub> O) water-soluble .....	20% w/w	Zinc (Zn) water-soluble .....	0,05% w/w
Magnesium (MgO) water-soluble ..	1,5% w/w		

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
HORTICULTURALS	2-3 Kg/Ha	Perform 2 applications from the end of fruit fattening until ripening.
FRUIT TREES	2-3 Kg/Ha	
CITRUS	2-3 Kg/Ha	
INDUSTRIALS	2-3 Kg/Ha	In continuous production crops apply every 15 days from the end of fattening of the first harvest.
TROPICALS	2-3 Kg/Ha	
OTHER CROPS	2-3 Kg/Ha	

\*This recommended dosage could vary according to the soil type and its fertility.



## QUELADDOR

25kg 5kg 1kg

**Queladdor** is an activator and mobilizer of the locked cations made from natural products. It enhances the liquid effectiveness when achieving the methalic cations which act as interferences and thus reducing the treatment effectiveness. Furthermore, it improves assimilation and translocation within the plant.

### COMPOSITION

Carboxylic Acids .....	88% w/w
------------------------	---------

CROP	DOSE FOLIAR	WAY & TIME OF APPLICATION
Add to the treatment liquid the dosage of 2gr/L to improve the effectiveness of the treatment: complex the ions preventing their blockage and insolubility. This product conducts the ions to the crop enhancing the effectiveness of it. Also it adds an amazing biostimulant effect to plants.		

\*This recommended dosage could vary according to the soil type and its fertility.



## OLIVOPOWER

25kg 5kg 1kg

**Olivopower** is a foliar fertilizer mainly designed to improve olive oil yield. It enables the cysteine and methionine formation, two amino acids directly related to the fat content. It is involved in the olive tree photosynthesis making it easier for basic nutrients to become fats and sugars. Besides, it enhances the pollen tube formation, improves setting, reduces fruit falling and prevents the deformed fruits formation. **Olivopower** promotes an increase in reserves, reducing the alternate bearing and balancing the production. This fertilizer prevents and corrects micronutrients deficiencies, vital for olive tree, such as Magnesium (Mg), Sufur (S) and Boron (B). Finally, it includes some selected additives (carriers), in charge of a quick and effective assimilation and translocation of nutrients to fruit.

### COMPOSITION

Boron water-soluble .....	8,5% w/w
Magnesium Oxide (MgO) water-soluble .....	16% w/w
Sulfur trioxide (SO <sub>3</sub> ) water-soluble .....	32% w/w

CROP	DOSE FOLIAR	WAY & TIME OF APPLICATION
OLIVE TREE	4-5 Kg/Ha	Perform 2-3 applications in preflowering, setting and fist stages of the fruit development (min. 250 L/Ha)
FRUIT TREES	2 Kg/Ha	Apply at the beginning of bud break in preflowering (100 L/Ha)
VINES	2 Kg/Ha	Apply when deficiencies are detected (250 L/Ha)
RAPESEED, SUNFLOWER & BEET	4-5 Kg/Ha	Apply when 4-6 visible leaves (200L/Ha)

\*This recommended dosage could vary according to the soil type and its fertility.



Due to its natural origin, organic activators make the most of the crop genetic potential, encouraging their reproductive and vegetative development in every stage.

## QUICELUM



20  
litres

5  
litres

1  
litre

500  
ml

250  
ml

100  
ml

**Quicelum** is a natural organic activator elaborated from higher plant seeds and algae extracts.

**Quicelum** contains macro and micronutrients, amino acids, organic acids, vitamins and some other plant regulators in charge of activating the synthesis of auxins, gibberellins, and cytokinins. Thanks to them the most of the crop potential is achieved in every stage of its phenological development.

**Quicelum** is a product which plays a key role promoting the gene expression in the production of secondary metabolites with a biostimulant function: hormones, vitamins... Furthermore, it enhances the proper functioning of the metabolic cycles in plants.

Its main effects are the following:

- Biostimulant action.
- Longer flowering, fruit setting and fattening.
- Uniform ripening.
- Production increase.
- Encourage the pollination and the setting.
- Uniform size fruits.
- Precursor of phytohormones.
- Anti-stress effect.

### COMPOSITION

Boron (B).....	0,2% w/w (0,24% w/v)
Copper (Cu) .....	0,5% w/w (0,6% w/v)
Iron (Fe) .....	2% w/w (2,4% w/v)
Manganese (Mn) .....	0,5% w/w (0,6% w/v)
Molybdenum (Mo) .....	0,02% w/w (0,024% w/v)
Zinc (Zn) .....	0,5% w/w (0,6% w/v)
Density .....	1,2 g/cc

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
STONE & PIP FRUIT TREES & DRIED FRUITS	75-100 cc/100 L of water	Perform 3 applications: 1 <sup>st</sup> in preflowering, 2 <sup>nd</sup> in setting and 3rd in fattening.
CITRUS	75-100 cc/100 L of water	Perform 3 application: 1 <sup>st</sup> at the beginning of bud break, 2 <sup>nd</sup> in setting and 3rd in fattening.
OLIVE TREE	75-100 cc/100 L of water	Perform 3 application: 1 <sup>st</sup> at the beginning of bud break, 2 <sup>nd</sup> in setting and 3rd in fattening.
BANANA TREES & TROPICALS	75-100 cc/100 L of water	Perform 2 applications: 1 <sup>st</sup> at the end of winter and 2 <sup>nd</sup> at the end of summer.
VINES	50-75 cc/100 L of water	Perform 2 applications: 1 <sup>st</sup> with leaves are opened and 2 <sup>nd</sup> after setting.
TOMATO	75-100 cc/100 L of water	Apply in each flower interval (every 20-30 days).
PEPPER	75-100 cc/100 L of water	Apply before flowering and after every 20 days.
MELON, WATERMELON & CORGETTE	75-100 cc/100 L of water	Perform 2 applications: 1 <sup>st</sup> in preflowering and 2 <sup>nd</sup> at the beginning of fattening.
INDUSTRIALS	50-100 cc/100 L of water	Apply when 2-4 visible leaves and repeat every 20 days.
STRAWBERRIES & RASPBERRIES	75-100 cc/100 L of water	Apply in preflowering and repeat every 25 days.
ORNAMENTALS	50-75 cc/100 L of water	Perform 2-3 applications in the growth stage.
OTHER CROPS	50-100 cc/100 L of water	Perform 2-4 applications spread over preflowering, setting and fattening.





## SUGAR TRANSFER



20 litres

5 litres

1 litre

500 ml

**Sugar transfer** is the ideal product for those crops which need to increase sugar contents, bring ripening forward and improve fruit size.

- Brix degree increasing.
- Optimum fruit colour.
- Precocity in fruits.
- Uniform ripening.
- Increase the carbohydrate synthesis .
- Sugar translocation to fruits and storage organs.
- Size fruit increasing.
- A % dry matter increasing.
- Static pH ( without K).

### COMPOSITION

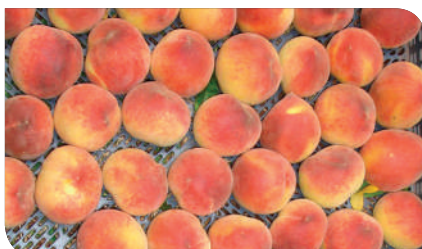
Free Amino Acids .....	2% w/w (2,5% w/v)
Organic Nitrogen (N) .....	0,5% w/w (0,6% w/v)
Magnesium Oxide (MgO) complexed with AG .....	1,5% w/w (1,9% w/v)
Polisaccharides and organic acids .....	32% w/w (38,4 % w/v)
Density .....	1,25 gr/cc
pH .....	4

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
VINES	2,5 L/Ha	Apply at the beginning of ripening.
GRAPES	2,5 L/Ha	Perform 1-2 applications at the beginning of ripening.
HORTICULTURALS	2 L/Ha	Apply at the beginning of ripening and repeat every 15 days.
FRUIT TREES & CITRUS	2 L/Ha	Apply 1 week before fruit changes its skin colour and repeat 20 days after.
MELON & WATERMELON	1,5 L/Ha	Apply when first fruits appear and repeat 20 days after.
STRAWBERRIES & RASPBERRIES	1,5 L/Ha	Apply when 1st fruits appear an repeat 15 days after.
OTHER CROPS	2,5 L/Ha	Apply 6-8 weeks before harvest.

UNTREATED CONTROL



SUGAR TRANSFER



## GLIBETINA New



20 litres

5 litres

1 litre

500 ml

**Glibetina** is a liquid formulation made from plant material, with a high content of glycine-betaine, amino acids and organic carbon. Its elaborate composition gives it osmoregulatory properties, enhancing cell survival, avoiding cracking of fruits in stressful situations (intense rains, transplantation, frosts, heat strokes, flooding, drought) and improving skin imperfections. The foliar application of GLIBETINA also causes a general improvement in the distribution of water in the plant, regulating the opening and closing of the stomata.

### COMPOSITION

Glycine-Betaine .....	25% w/w (30% w/v)
Free amino-acids .....	6% w/w (7,2% w/v)
Total Nitrogen (N) .....	5% w/w (6% w/v)
Organic Nitrogeno (N) .....	4.5% w/w (5.4% w/v)
Density .....	1.2 g/mL
pH .....	4.6

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
POME AND STONE FRUIT TREES	3-5 L/Ha	Apply at the beginning of the color change.
POTATO	3-5 L/Ha	Apply at the beginning of flowering or tuberization.
VEGETABLES	3-5 L/Ha	Apply in times of stress throughout the vegetative cycle.
VINE AND TABLE GRAPE	3-5 L/Ha	Apply at the beginning of the color change.
CUCURBITS (WATERMELON, MELON ...)	3-5 L/Ha	Apply in times of stress throughout the vegetative cycle.

\* For OTHER CROPS not listed, consult Arvensis Technical Service.





These products protect plants and fruits from frosts, extreme evapotranspiration conditions and droughts.

## SCUDOR

20 litres 5 litres 1 litre 500 ml

**Scudor** is a liquid formulation which function is to prevent plants from extreme temperatures. It acts creating a membrane that prevents water loss. As a result, it protects plants and fruits from frosts and extreme evapotranspirations.

**Scudor** can be applied in any crop. A good covering on vegetable mass to protect is needed. After 10-15 days of application, the product gradually degrades due to rain and moisture.

In cold weather, the dosage is 2%, 2 L/100 L water, with a minimum water waste of 8 L/Ha and a maximum of 16 L/Ha. However, in high insulation seasons, the dosage is 1%, 1L/100 L water. In any case, the dosage could be repeated every 15-20 days.

**Scudor** creates a protection layer on plant tissue, preventing water loss and any damage caused by cell dehydration during frosts.

When droughts and high temperatures, Scudor prevents crops from excessive evapotranspirations, while maximizing cell hydration in tissues.

### COMPOSITION

Acrylic copolymer in watery dispersion.....40% w/w  
Organic carbon.....25% w/w  
Density .....1,1 g/cc

### Frost dose

CROP	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	8-16 L/Ha	Apply 24-48 hours before frosts.
HORTICULTURALS	8-16 L/Ha	Apply 24-48 hours before frosts.
CITRUS	8-16 L/Ha	Apply 24-48 hours before frosts.
TROPICALS	8-16 L/Ha	Apply 24-48 hours before frosts.
OTHER CROPS	8-16 L/Ha	Apply 24-48 hours before frosts.

### High insulation dose

CROP	SOIL DOSE	WAY & TIME OF APPLICATION
FRUIT TREES	4-10 L/Ha	Apply every 15-20 days.
HORTICULTURALS	4-10 L/Ha	Apply every 15-20 days.
CITRUS	4-10 L/Ha	Apply every 15-20 days.
TROPICALS	4-10 L/Ha	Apply every 15-20 days.
OTHER CROPS	4-10 L/Ha	Apply every 15-20 days.



## SOLAR-PROTEK **New**

20 litres 5 litres 1 litre 500 ml

**Solar-protek** is a concentrated calcium suspension with a series of adjuvants that give it great stability in the suspension. Easy to handle, mixes quickly and applies evenly.

**Solar-protek** protects the leaves and fruits, reducing the solar stress of crops subjected to high ultraviolet and infrared radiation without affecting photosynthesis.

### COMPOSITION

Total calcium oxide (CaO) .....34% w/w (56% w/v)  
Density .....1,65 gr/cc  
pH .....8,5 - 9,5

CROP	DOSE	WAY & TIME OF APPLICATION
CÍTRUS AND FRUIT TREES	10-12 L/Ha	Apply several times every 15 days when necessary.
VEGETABLES TOMATO, CUCUMBER, PEPPER	10-12 L/Ha	Apply several times every 15 days when necessary.
BERRIES	10-12 L/Ha	Apply several times every 15 days when necessary.
AVOCADO AND BANANA	10-12 L/Ha	Apply several times every 15 days when necessary.
INDUSTRIALS	10-12 L/Ha	Apply several times every 15 days when necessary.

\* For OTHER CROPS not listed, consult Arvensis Technical Service.



**GELYFLOW** products mainly consist of formulations in which the active ingredient is in suspension containing very small solid parts (< 5 µm), allowing: much higher concentrations of active ingredient than dilutions, a foliar absorption in a gradual and controlled manner, (with a low phytotoxic risk), a high absorption rate. They can be used for many purposes: foliar fertilization, fertirrigation via, soil amendments, protection against UV rays, seed treatments...



## GELYFLOW Ca

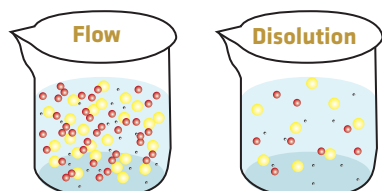


**Gelyflow-Ca** is a Calcium concentrated suspension. Thanks to its composition it can be applied either by foliar or fertirrigation in any soils: acidic, alkaline, saline-sodic soils...

It has several adjuvants which bring its wettability and filmogenic properties, useful for the following usages: a deficiency corrector, either via foliar or via soil; soil limestone amendment; protection against UV rays.

### COMPOSITION

Calcium oxide (CaO) water-soluble ..... 35% w/w (57,7 % w/v)  
Density ..... 1,65 g/cc  
pH ..... 8-9



CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	2-2.5 L/Ha	Perform 3-4 applications since fruit just setting and every 15 days.
VINES	2-2.5 L/Ha	Perform 2-3 applications from setting every 15 days.
HORTICULTURALS	2-2.5 L/Ha	Perform several applications as needed every 15 days.
INDUSTRIALS	2-2-2.5 L/Ha,5	Perform 2-3 applications since the crop covers the ground.
RICE & WINTER CEREALS	2-2.5 L/Ha	Perform 1 application from initial floral development to flowering.
CORN & SUGAR CANE	2-2.5 L/Ha	Perform 1 application from 4-6 visible leaves.
STRAWBERRIES	2-2.5 L/Ha	Perform several applications spread every 15 days.
BANANA TREES	2-2.5 L/Ha	Perform 2 applications at the end of winter.
OTHER CROPS	2-2.5 L/Ha	Perform 2-3 applications since fruit just setting.

In soil applications: 3-3.5L/ha  
\*This recommended dosage could vary according to the soil type and its fertility.



## GELYFLOW Mg



**Gelyflow-Mg** is a high quality foliar and root fertilizer. Its main target is preventing and/or correcting Magnesium deficiencies in fruit trees and other crops. On the one hand, its high Magnesium concentration enables the efficient improvement of these deficiencies. Its high concentration also allows to correct these deficiencies effectively or to complement the cover applications, especially when these are limited by soil conditions, climate or because of the crop own properties.

### COMPOSITION

Magnesium oxide (MgO) ..... 34% w/w (47,6% w/v)  
Density ..... 1,4 g/cc  
pH ..... 8-9

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	2-4 L/Ha	Perform 1-2 applications in spring and autumn growth flows
HORTICULTURALS	2-4 L/Ha	Perform applications during plant development until flowering
VINES	2-4 L/Ha	Perform 3 applications: 1st bud break, 2nd preflowering, 3rd setting
ORNAMENTALS & TREE NURSERIES	2-4 L/Ha	Perform 3-4 applications from the crop covers the ground
INDUSTRIALS	2-4 L/Ha	Perform application from 4-6 visible leaves, at early signs of magnesium deficiencies. Repeat the application every 10-14 days as needed
CEREALS	2-4 L/Ha	Perform 1 application from 8-10 visible leaves
OLIVE TREE	2-4 L/Ha	Perform 3 applications: 1st bud break, 2nd preflowering, 3rd setting
OTHER CROPS	2-4 L/Ha	Perform 2-3 applications spread over the crop cycle
OTHER CROPS	2-4 L/Ha	Perform 2-3 applications as needed

In soil applications: 5-6L/ha  
\*This recommended dosage could vary according to the soil type and its fertility.





## GELYFLOW Mn

10 litres 5 litres 1 litre 500 ml

**Gelyflow-Mn** is a high quality foliar and root fertilizer. Its main aim is preventing and/or correcting the Manganese deficiencies in any crops. On the one hand, its high Manganese concentration enables the efficient improvement of these deficiencies. Its high concentration also allows to correct these deficiencies effectively or to complement the cover applications, especially when these are limited by soil conditions, climate or because of the crop own properties.

### COMPOSITION

Manganese (Mn)..... 27% w/w (50% w/v)  
Density ..... 1,85 gr/cc  
pH..... 8-9

CROP	FOLIAR DOSE	WAY & TIME OF APPLICATION
FRUIT TREES & CITRUS	125 cc/100 L of water	Perform 1-2 applications in spring and autumn growth flows.
HORTICULTURALS	200-300 cc/100 L of water	Perform application 1 week after 100% emergence and every 10-15 days until 2-3 applications.
VINES	600-950 cc/100 L of water	Perform 3 applications: 1st, when buds are visible, 2nd when they are separated and 3rd, in fruiting.
TROPICALS	100-200 cc/100 L of water	Perform 1-2 applications in prefruiting stage.
INDUSTRIALS	150-250 cc/100 L of water	Apply at the early signs of manganese deficiencies.
CEREALS & COFFEE	300-600 cc/100 L of water	Apply from the plant have 8-10 visible leaves until the first node.
PIP FRUIT TREES	100 cc/100 L of water	Apply when the petals fall and, if necessary, perform 2-3 applications at an interval of 10-14 days.
OLIVE TREE	500-800 cc/100 L of water	Apply at the beginning of life cycle.
OTHER CROPS	50-200 cc/100 L of water	Perform 2-3 applications as needed.

Fertirrigation dose: 1-2,5L/Ha.

\*This recommended dosage could vary according to the soil type and its fertility.



## GELYFLOW CaB

10 litres 5 litres 1 litre 500 ml

**Gelyflow-CaB** is a high quality foliar and root fertilizer. Its main aim is preventing and/or correcting the Calcium and Boron deficiencies in any crops. Its high concentration enables the efficient improvement of these deficiencies. Its high concentration also allows to correct these deficiencies effectively or to complement the cover applications, especially when these are limited by soil conditions, climate or because of the crop own properties.

### COMPOSITION

Calcium oxide (CaO) water-soluble.....14,9% w/w (21,6 % w/v)  
Boron (B) water-soluble.....3,8% w/w (5,5 % w/v)  
Density .....1,45 g/cc  
pH..... 8-9

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
LEGUMES	150-300 cc/100 L of water	2-4 L/Ha	Perform several applications spread over the crop cycle.
COFFEE	150-300 cc/100 L of water	2-4 L/Ha	
CORN & SUGAR CANE	150-300 cc/100 L of water	2-4 L/Ha	
FRUIT TREES & CITRUS	150-250 cc/100 L of water	2-4 L/Ha	Perform 3-4 applications every 15 days when just setting.
HORTICULTURALS	100-200 cc/100 L of water	2-4 L/Ha	Perform weekly while flowering and fattening stages.
ORNAMENTALS & PLANT NURSERIES	100-150 cc/100 L of water	2-4 L/Ha	Perform 2-3 applications when fruits growth.
TROPICALS	300-500 cc/100 L of water	2-4 L/Ha	Apply weekly while the beginning of growing and in preflowering.

\*This recommended dosage could vary according to the soil type and its fertility.



## GELYFLOW Zn

10 litres 5 litres 1 litre 500 ml

**Gelyflow-Zn** is a Zinc concentrated suspension. Thanks to its composition it can be applied either by foliar or fertirrigation in any soils: acidic, alkaline, saline-sodic soils...

**Gelyflow-Zn** is a highly concentrated fluid Zinc formulation which contains from 6-8 times more Zinc than a common liquid chelate. It is 5-6 times higher than liquid fertilizers in sulfate or nitrate base.

Besides, **Gelyflow-Zn** is also recommended to use for controlling Zinc deficiencies when applying in seeds.

### COMPOSITION

Zinc (Zn).....43% w/w (75% w/v)  
Density .....1,75 gr/cc  
pH (at 1%) .....9,5

### CROP

Corn .....200-350 cc/100 kg Kg seeds  
Sorghum .....200-400 cc/100 kg Kg seeds  
Wheat/ Barley .....200-300 cc/100 kg Kg seeds  
Avene/ Rice .....200-300 cc/100 kg Kg seeds  
Sunflower .....200-300 cc/100 kg Kg seeds  
Soya .....200-350 cc/100 kg Kg seeds  
Cheakpeas/ lentils .....200-350 cc/100 kg Kg seeds  
Potato.....1-2 litros/ha

### DOSE (FOR 100 KG seeds)

CROP	FOLIAR DOSE	SOIL DOSE	WAY & TIME OF APPLICATION
CITRUS	100-200 cc/100 L of water	750-1500 cc/Ha	Perform 2-3 applications spread over spring and autumn bud breaks. It is enough moisten the tree periphery.
PIP FRUIT TREES	30-60 cc/100 L of water	400-500 cc/Ha	Perform 2 applications in spring bud break (shoots of 5-10 cm). Don't apply in flowering.
STONE FRUIT TREES	30-50 cc/100 L of water	350-600 cc/Ha	Perform 2-3 applications since shoots of 5-10 cm repeating every 10-15 days. In plum trees perform only 2 applications at the minimum dose to avoid toxicity.
OLIVE TREE	100-200 cc/100 L of water	700-1000 cc/Ha	Perform 2-3 applications in growth flows of spring shoots until before flowering mixing with Fertimix-B.
HORTICULTURALS	150-200 cc/100 L of water	500-800 cc/Ha	Perform 1-3 applications since the active shoot and repeat every 10-15 days.
INDUSTRIALS	100-200 cc/100 L of water	350-1000 cc/Ha	Perform 2 applications when the plant is higher than 20 cm.
CEREALS	150-200 cc/100 L of water	500-800 cc/Ha	Perform 1-3 applications since the active shoot and repeat every 10-15 days.
CORN	200 cc/100 L of water	1000 cc/Ha	Perform 1-3 applications when 4-8 leaves are visible.
BANANA TREES	60-120 cc/100 L of water	600-1200 cc/Ha	Perform application at the end of winter and at the end of summer.
GRAPES & VINES	75-125 cc/100 L of water	700 cc/Ha	Perform 2 applications: 1st with shoot 30-40 cm and 2nd at the beginning of flowering.
OTHER CROPS	50-100 cc/100 L of water	500-1000 cc/Ha	Perform 2-3 applications when enough foliar mass exits.

\*This recommended dosage could vary according to the soil type and its fertility.



## GELYFLOW CuMnZn

10 litres 5 litres 1 litre 500 ml

**Gelyflow-CuMnZn** is a high quality root fertiliser. Its main aim is preventing and/or correcting the copper, manganese and zinc deficiencies in any crops. On the one hand, its high magnesium concentration enables the efficient improvement of these deficiencies. Its high concentration also allows to correct these deficiencies effectively or to complement the cover applications, especially when these are limited by soil conditions, climate or because of the crop own properties.

### COMPOSITION

Manganese (Mn).....	19,4% w/w (34,92% w/v)
Zinc (Zn).....	8,4% w/w (15,12% w/v)
Copper (Cu) .....	4,7% w/w (8,46% w/v)
Density .....	1.80 g/cc
pH (al 1%).....	8,5

CROP	DOSE SUELO (L/ha aplicación)	WAY & TIME OF APPLICATION
FRUIT TREES	5 L/Ha	1 weekly application at the beginning of fruit growing and in prefloration.
COFFEE & CITRUS	5 L/Ha	1 weekly application at the beginning of fruit growing and in prefloration.
CEREALS & COTTON	10 L/Ha	1 weekly application at the beginning of fruit growing and in prefloration.
FLOWERS & ORNAMENTALS	10 L/Ha	Apply during the fruit filling stage.
VEGETABLES	10 L/Ha	1 weekly application when flowering and when fruit filling stage.

Proper water dilution ratio: 1:1000-2000.

\*This recommended dosage could vary according to the soil type and its fertility.



## GELYFLOW MgMnZn

10 litres 5 litres 1 litre 500 ml

**Gelyflow-MgMnZn** is a high quality foliar and root fertilizer. Its main aim is preventing and/or correcting the manganese, Manganese and Zinc deficiencies in any crops. Its high concentration also allows to correct these deficiencies effectively or to complement the cover applications, especially when these are limited by soil conditions, climate or because of the crop own properties.

### COMPOSITION

Manganese (Mn).....	12,5% w/w (20,6% w/v)
Zinc (Zn).....	15,5% w/w (25,5% w/v)
Magnesium oxide (Mg).....	3,5% w/w (5,7% w/v)
Density .....	1,65 g/cc
pH .....	8-9

CROP	DOSE FOLIAR	WAY & TIME OF APPLICATION
CITRUS	3-5 L/Ha	Perform 2 applications: 1st in spring and 2nd in bud break (summer autumn).
POTATO	3-5 L/Ha	Perform 1-2 applications when 100% plant emergence, with a 15-day interval free of treatment.
VINES	3-5 L/Ha	Perform 2 applications when flower buds and setting.
PIP FRUIT TREES	3-5 L/Ha	Perform applications when the buds formation and postharvest. Avoid flowering.
HORTICULTURALS	3-5 L/Ha	Apply when 4-6 leaves are visible and repeat every 10-15 days if necessary.

\*This recommended dosage could vary according to the soil type and its fertility.



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