PFS

PRODUCT
FERTILIZER
SUSTAINABLE

"Sow an action, reap a habit.
Cultivate a habit and you will get character.
Cultivate a character and reap
Your own destiny"

Liquid
Solid
Radicular Application
Foliar Application

Citrus fruits
Alfalfa
Trees
Banana trees

Crops
Cereals
Cotton
Vegetables

Olive
Beet
Vine
Horticultural leaf

Potatoes
Corn
Strawberries
Plants

Sugar cane
Fruit trees
Floral
Seeds

índex

HUMIC

HUMIC ACIDS

HUMIC forms the clay-humic complex together with the clays, retaining much longer particles of water and nutrients.

It **releases macroelements and microelements**, blocked by excess calcium carbonates in our soils. Together with the nutrients they make up a cationic radical that **favors the introduction of the food particle in the plant.**

It stimulates a greater and faster root development and improves the bacterial life of the soil. **It boosts chelates** and prevents retrogradation of potash and phosphates.

GUARANTEED RICHES

Extract Humic Total (EHT)	20 % p/p
Humic Acids	10 % p/p
Ácidos Fulvic Acids	10 % p/p

pH: 11,5 (± 0,5)
Density:1,18 (g/c.c.)

DOSE

	RADICAL APPLICATION
IN GENERAL	From 30 to 40 l / ha / year, in several applications. Increase doses in case of: - Soils poor in organic matter. - Intensive crops (greenhouses 40 - 60 l / ha). - Canaries and young soils, and irrigation to blanket.

HUMIC PK

HUMIC ACIDS

HUMIC PK is a product rich in humic and fulvic acids and also rich in phosphorus and potassium and therefore an **important complement for crops**.

GUARANTEED RICHES

Extract humic	25 % p/p
Phosphorus pentoxide (P2O5) soluble in water	5,4 % p/p
Potassium oxide (K2O) soluble in water	5,4 % p/p
Humid acids	5 % p/p
Fulvic acids	20 % p/p

pH: 10 - 11
Density: 1,22 g/c.c. a 20 ºC

DOSE

For application via fertirrigation the system must be pressurized before adding **HUMIC PK.** For foliar application, the recommended dose should be diluted in water and sprayed on the leaves of the plants. Follow the recommended doses in the table below:

	FOLIAR APPLICATION	RADICULAR APPLICATION	APPLICATION TIME
SOY, CORN AND COTTON	500 ml/100L	Fertigation: 20 a 30 l/ha	Vegetative phase.
COFFEE AND CITRUS	300 a 400 ml/100L	Fertigation: 20 a 40 l/ha.	Rainy period.
TOMATO AND POTATO	250 a 400 ml/100L	Fertigation: 30 a 50 l/ha.	The whole cycle.
STRAWBERRY	200 a 300 ml/100L	Fertigation: 30 a 40 l/ha	Whole cycle up to 15 days previous harvest.
CANE OF SUGAR	300 a 500 ml/100L	Fertigation: 30 l/ha	30 days after each cut.
VEGETABLES	300 a 500 ml/100L	Fertigation: 40 a 60 l/ha	Then transplant until 7 days before harvest.

ORGANIC MATTER

ORGANIC AMENDMENT

ORGANIC MATTER is a liquid organic nutrient of vegetable origin. Its use as ORGANIC AMENDMENT is accepted in ECOLOGICAL AGRICULTURE.

By its composition it is indicated in the important phases of the vegetative cycle (**growth, set and fattening**) and in the moments of maximum stress of the plant.

The components of **ORGANIC MATTER** are quickly assimilated by the plant, improving the structure of the soils. **Increases the assimilation of fertilizers, stimulates the microbial activity of the soil and brings macro and microelements to the crop.** It contains between 1% and 3% free amino acids.

GUARANTEED RICHES

Organic matter	38,6 % p/p
Extract humic total	33,8 % p/p
Fulvic acido	33,8 % p/p
Nitrogen (N) total	3,2 % p/p
Nitrogen (N) organic	2,8 % p/p
Potassium oxide (K2O)	3,10 % p/p

pH: 4,6
Density: 1,2 g/cc

DOSE

The recommended doses are of 20 to 40 liters per hectare and year, distributed in several applications. These doses should be increased in the case of: poor soils in organic matter, intensive crops, canaries and young soils, in the case of irrigation to blanket.

	RADICULAR APPLICATION
IN GENERAL	*I water the blanket It can be poured directly, or by means of a drum with tap, on the slide itself of water. 3.0-7.0 L / ha application generally up to 40 L / Ha. The contribution can be made alone Or mixed with fertilizers. Recommended in critical stages of crop development (germination, vegetative development, Flowering, fruit mooring and fruit development).

PH3

SOLUTION NP MOISTURIZING, ANTI-SPARKLING AND SOAP

SOLUTION NP, which is characterized by its ability to decrease the pH of phytosanitary broths.

· Soluble liquid formulation, containing phosphorus salts Synergized with high quality surfactants.
· NP solution capable of **reducing surface tension** (Favoring the phenomena of wetting).
· NP solution capable of **reducing foaming** "In the preparation of phytosanitary broths".
· Liquid formulation with action: **Fertilizer, Humectant, Antifoam and pH Regulator**.

Its use prevents the degradation of the active substances (Alkaline Hydrolysis), maintaining and / or improving the effectiveness of the treatments (especially, herbici-

GUARANTEED RICHES

Nitrogen (N) total	3 % p/p
Nitrogen (N) ureic	3 % p/p
Phosphorus pentoxide (P2O5) soluble in water	15 % p/p

pH: 0 - 2
Density: 1,25 c/cc a 20 ºC

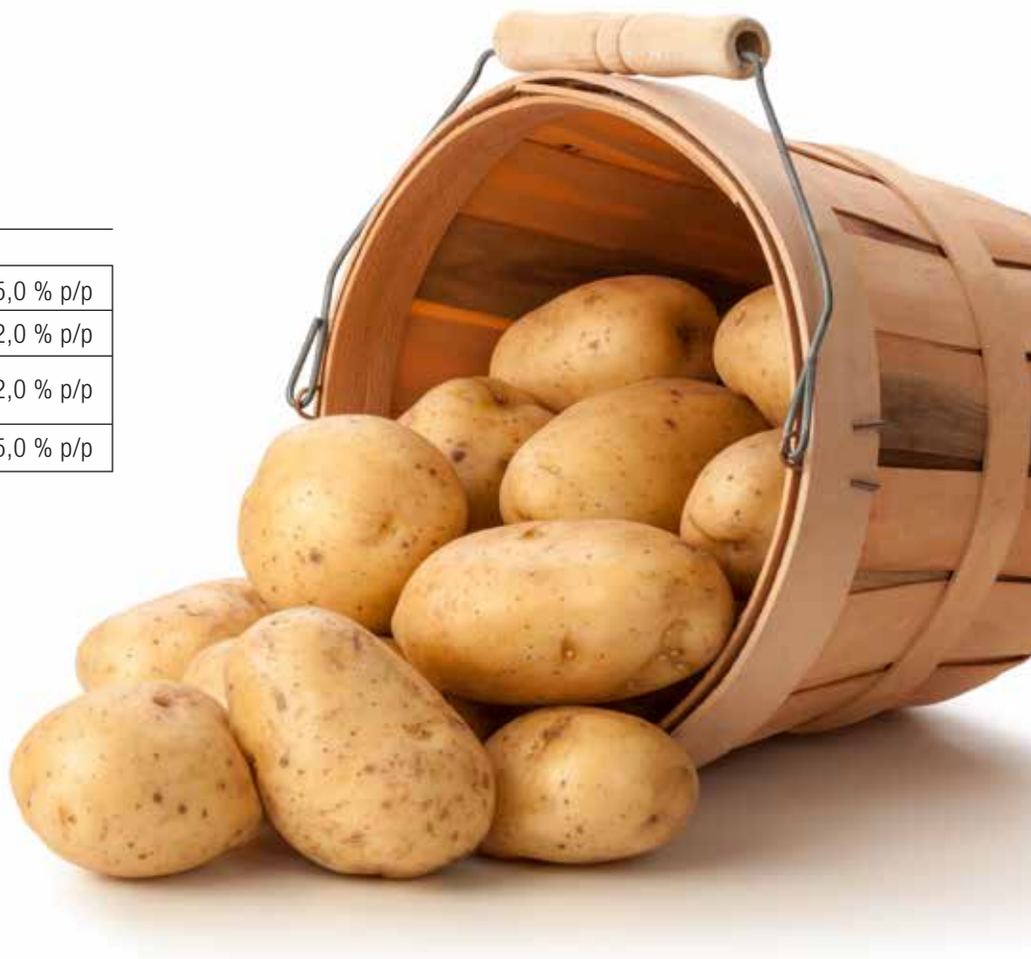
DOSE

Add **PH** to the water in the tank, keeping the agitator running. Add the phytosanitary products and / or fertilizers.
Dosing to achieve pH = 6 depending on the pH of the water:

	CUBA ENHANCER	
	PH OF WATER	C.C. OF PH 1000 L. WATER
IN GENERAL	10,5	1.600
	10	1.450
	9,5	1.300
	9	1.150
	8,5	1.000
	8	850

CALCIO RADICULAR

COMPLEX CALCIUM SOLUTION
CALCIUM FAILURE TO CORRECT
SALINE CORRECTOR



GUARANTEED RICHES

Organic matter total	15,0 % p/p
Calcio (Ca) total	12,0 % p/p
Calcio (Ca) complex soluble in water	12,0 % p/p
Polyhydroxycarboxylic acids	15,0 % p/p

pH: 2,22
Density: 1,40 g/cc

DOSE

RADICULAR APPLICATION

SOIL CHARACTERISTICS	WATER CHARACTERISTICS
Compact and impermeable floors: 20-40 l / Ha, distributed throughout the crop cycle. **Saline-sodic and cracked soils:** 40-60 l / Ha, distributed throughout the crop cycle. **Problems of birth:** 50-60 l / Ha, distributed throughout the crop cycle.	**Medium saline waters (1,5 g / l):** 15-25 cc / m3 of water. **Salt water (1.5-2.5 g / l):** 35 cc / m3 of water. **Very saline waters (> 2.5g / l):** 60 cc / m3 of water.

PFS VIGOR

SOLUTION OF FERTILIZER WITH AMINO ACIDS

PFS VIGOR is a special product developed for use in fertigation. Due to its richness guaranteed rich in peptides, polypeptides and amino acids (obtained by hydrolysis). It has a **rooting effect**.

It also **ensures a better growth of the whole plant** favoring physical chemical exchange that allows a good soil structure, maintaining and strengthening the microbiological system of soils (microflora and microfauna). **PFS VIGOR** offers an excellent contribution of micro and macro elements especially of organic nitrogen.

GUARANTEED RICHES

Nitrogen total (N)	2,50 % p/p
Nitrogen organic (N)	2,50 % p/p
Phosphorus pentoxide (P2O5), soluble in water	3,40 % p/p
Potassium oxide (K2O), soluble in water And in neutral ammonium citrate	5,50 % p/p
Free aminoacids	2,00 % p/p
Organic matter	14,20 % p/p
Organic carbon	9,00 % p/p
Magnesium oxide (MgO) soluble in water	0,02 % p/p
Iron (Fe) soluble in water	0,01 % p/p
Zinc (Zn) soluble in water	0,002 % p/p

pH: 7,5 ± 0,5
Density 1,15 gr/cc

DOSE

	RADICULAR APPLICATION
CITRUS SUBTROPICALES AND TROPICAL	60-120 lts / ha every 15/20 days after setting until harvesting.
FRUIT	40 to 100 lts / ha every 15/20 days after setting to collection.
VEGETABLES	10 - 20 liters / ha in several applications during the vegetative cycle.
VINE	40 - 80 lts/ha.

ALGINATUR 20

AMINOACIDS

ALGINATUR 20, is a perfect stimulant complete with micro element, algae and amino acids perfect for the most critical phases of vegetative growth.

Its use stimulates all the physiological processes of the plant **favoring flowering the curd as well as the root development** when its application is radicular. This product allows the accumulation of reserves in the fruits as well as and mainly the overcoming of biotic and abiotic stress situations.

GUARANTEED RICHES

Nitrogen (N) total	3,3 % p/p
Free aminoacids	12,0 % p/p
Alginic extracts	8,0 % p/p
Organic matter	20 % p/p
Nitrogen (N) organic	2,0 % p/p
Hexa-gluconic acids	5,0 % p/p

Boro (B)	0,20 % p/p
Iron (Fe)	1,1 % p/p
Copper (Cu)	0,10 % p/p
Manganese (Mn)	0,50 % p/p
Molybdenum (Mo)	0,02 % p/p
Zinc (Zn)	0,20 % p/p

pH: 7,1
Density: 1,15 g/ c.c

DOSE

	FOLIAR APPLICATION
FRUIT	Of bone and nugget: 500 cc / ha at the beginning of flowering and repeat at 15 - 20 days.
VINE & PARRA	500 cc / ha in fruiting and repeat at 15 - 20 days.
OLIVE AND NUTS	500 cc / ha at the beginning of flowering and repeat at 15 - 20 days.
HERBACEANS & INDUSTRIAL	300 - 400 cc / ha during the first phase of the vegetative cycle and repeating the application every 15 days.
STRAWBERRIES, RASPBERRIES, VEGETABLES OF FRUIT	400-500 cc / ha during the first phase of the vegetative cycle and repelling the application at 15 days.

	RADICULAR APPLICATION
IN GENERAL	It can be applied at any time in the vegetative cycle of crops, but preferably in times of greatest need, since it is a perfect product, which also acts as a vehicle for the assimilation of micro-elements through all the organs of plants. The total dose to be applied would be 10 -15 liters / Hectares distributed in several applications during the vegetative cycle of the crop to be treated.

PFS 30

AMINOACIDS

PFS 30 is a biostimulant with a high content of amino acids derived from the hydrolysis of vegetable proteins. In addition to the high percentage of amino acids of rapid assimilation.

This product has more than 40% of organic matter, 0.5% of Potassium and 0.5% of Phosphorus as well as Calcium and Magnesium.

GUARANTEED RICHES

Nitrogen (N) total	4,2 % p/p
Nitrogen (N) organic	4 % p/p
Free aminoacids	24 % p/p
Organic matter total	> 40 % p/p

pH: 5,7
Density: 1,20 g/cc

DOSE

PFS 30 is developed for foliar and root application in all crops, and can be applied in fertirrigation with any system.

	FOLIAR APPLICATION	RADICULAR APPLICATION
TREES	200 - 300 cc in 100 liters of water, performing Three applications during the cycle (prefloration, Curdling and fattening of fruits).	Dilute in water of 3 to 6 liters per Ha. in 4 or 5 applications per cycle.
CROPS LOW	200 cc / 100 liters of water. Carry out between 3 and 4 separate treatments 15 days. In the case of strawberry and strawberry, go up to 350-400 cc / hl.	

+VIGOR

ORGANIC STIMULANT OF VEGETABLE ORIGIN

+ VIGOR It influences directly on the phases of growth, flowering, settling and fattening so it recommends its use throughout the vegetative cycle. It balances the assimilation of nutrients and strengthens the root system.

GUARANTEED RICHES

Organic matter (By calcination at 550 ° C)	53,80 % p/p
Free aminoacids	6,00 % p/p
Dry residue (at 110 ° C)	66,00 % p/p
Nitrogen (N) total soluble in water	3,88 % p/p
Potassium oxide (K20), soluble in water	2,98 % p/p
Iron (Fe)	0,037 % p/p

pH: 5,5 - Density: 1,3 g/cc

DOSE

	RADICULAR APPLICATION
FRUIT	(according to leaf volume) 40-80 l / ha.
VEGETABLES	(depending on growth) 40-120 l / ha.
OLIVO	(according to planting years) 40-80 l / ha.
VINE	(according to soil composition and age of the plant) 40-60 l / ha.

RADIMAX

MULTIPLICATOR ROOT OF THE RADICAL SYSTEM

Several active substances have been used in the composition of **RADIMAX**, all of which are naturally occurring and have already proven their efficacy in various areas of plant nutrition.

Because of its composition **RADIMAX** contains amino acids, cytokinins, betaines, natural auxins, macros and microelements, vitamins and a high percentage of organic matter, these components make the roots have more longevity and resistance to some attacks of pathogens.

GUARANTEED RICHES

Free aminoacids	6 % p/p
Organic matter	38,51 % p/p
Phosphoric anhydride (P2O5), soluble in water / And in neutral ammonium citrate	12,12 % p/p
Potassium oxide (K2O) soluble in water	1,67 % p/p
Nitrogen total	1,12 % p/p

pH: 1,77
Density: 1,31 gr/cc

DOSE

	RADICULAR APPLICATION		
	DOSE	APPLICATIONS	TOTAL CONSUMPTION
VEGETABLES			
GREENHOUSE	2 - 3 l/ha	2 - 4 times	6 - 12 l/ha
FRESH AIR	2 - 3 l / ha every 10 days	2 - 5 times	5 - 15 l/ha
CROPS LEO			
CITRUS FRUIT OLIVAR	5 - 15 cc / foot transplant 25 - 50 cc / ft in adults	2 - 4 times	according need
SCREENS	The dose may vary depending on the immersion time. As a general dose, with a average of 1 minute of immersion will be of liters for 100 of water.		

ALGAE

EXTRACT OF LIQUID ALGAE

ALGAE is a product that has wide benefits for both plants and soil, among which we highlight:

· In fruit, vine, olive and vegetables increases the curd, Which means an increase of harvest.
· In these same crops, it favors the amount of Sugars or fatty acids present.
· Activates the production of growth hormones, Caused by alginic, polysaccharic and Enzymes.
· Increases the natural defenses of plants.

Improves soil structure by increasing water and nutrient retention and promoting rapid root formation. This product contains 250 gr of nodosum ascophyllum.

GUARANTEED RICHES

Potassium oxide (K2O), soluble in water	2,5 % p/p
Alginic acid	1,5 % p/p
Mannitol	0,5 % p/p

pH: 8-7 - Density: 1,20 g/c.c. a 20 ºC

DOSE

	FOLIAR APPLICATION
IN GENERAL	100 - 500 cc/hl según cultivos y necesidades.
AVOCADO, BANANA TREE, TROPICAL & SUBTROPICALES	250 - 350 cc/hl, durante la fructificación cada 15 - 20 días.
ALMOND, NOGAL HAZEL, PISTACHIO Y OLIVO	200 - 350 cc/hl, al comienzo de la floración y a los 10 - 15 días.
GRASS	300 - 400 cc/hl, al comienzo de la primavera y 20 días después.
FLORAL	150 - 300 cc/hl, durante la primera fase del ciclo vegetativo.
STRAWBERRY, RASPBERRY & VEGETABLES LEAF	200 - 300 cc/hl, desde el comienzo del ciclo vegetativo quincenalmente.
HORTÍCOLAS FRUTO E INDUSTRIALES	200 - 250 cc/hl, desde el comienzo del ciclo vegetativo quincenalmente.
PARRA Y VID	250 cc/hl, durante la fructificación y cada 15 - 20 días.
PATATA	500 cc/hl, sumergir los tubérculos, enteros o cortados, durante 5-10 minutos.
SEMILLAS	150 cc/hl, cuando las plantas tengan 8 - 10 cm de altura.

*Fertigation: 3-10 l / ha and irrigation until reaching 30-70 l / ha and cultivation; In irrigation to blanket, increase the dose by 30%.

COMPLEX

COMPLEX CALCIUM SOLUTION

COMPLEX, is a soluble liquid formulated with calcium and complexed with polyhydroxycarboxylic acids. **It counteracts the negative effects of excess sodium** (Na) on soils and irrigation waters. Both acid and alkaline soils gently modify the pH and **improve the retention of fertilizers**.

GUARANTEED RICHES

Calcio (CaO) soluble in water	20 % p/p
Calcio (CaO) complex	20 % p/p
COMPLEX: Polyhydroxycarboxylic acids	12,0 % p/p

pH: 2,2
Density: 1,45 g/cc

DOSE

	FOLIAR APPLICATION	RADICULAR APPLICATION
CITRUS, SUBTROPICALES AND TROPICAL	150 - 400 cc / 100L of water, every 15-20 days after setting until collection.	15 L / ha and irrigation.
VEGETABLES & INDUSTRIAL	150 - 250 cc / 100 L of water, every 15 - 20 days.	10 L / ha and irrigation.
FRUIT	150 - 400 cc / 100 L every 15-20 days after from the curd to the harvest	15 L / ha and irrigation.
CROPS	150-300 cc / 100 L every 15-20 days.	10 - 15 L / ha and irrigation.
SEASON AND PRATENSES	-	100 - 125 L / ha every 3-4 months.
CURCUBITÁCEOUS	200 - 300cc / 100L every 15 - 20 days.	100 - 125 L / ha every 3-4 months.
PADDED OF APPLE	300-400 cc / 100L of water. Preventive dose: 2 applications to the quantity Indicated. Healing dose: 6 - 8 applications at amount indicated every 10 days.	-

* Can also be used as salinity corrector.
- According to soil characteristics: Compact and impermeable soil, 20-40 l / ha; Cracked and saline soil, 40-60 l / ha.
- According to characteristics of the irrigation water: Medium saline water (1,5 g / l), 15-25 cc / m3; Salt water (1.5 to 2.5 g / l), 35 cc / m 3; Very saline water (more than 2.5 g / l), 60 cc / m3.

BORO

BOROETHANOLAMINE

BORO is an exceptional Boro deficiency corrector formulated to **prevent and cure deficiency states due to deficiency or imbalance in assimilation**.

BORO is an essential element for pollination and fruit set. It favors the synthesis and transport of sugar and is involved in the reproductive phase of the plant. BORO **increases the production and quality of the crops**.

BORO is highly indicated in crops such as apple, pear, cherry, almond, orange, vine, olive, beet, sunflower, colza, celery, tomato, lettuce, cabbage, broccoli, carrot, strawberry, citrus, ornamental, etc...

GUARANTEED RICHES

Boro soluble in water in form Of ethanolamine salt	10,5 % p/p

pH: 7,5 - Density 1,35 g/cc

DOSE

BORO can be applied by foliar route as on the soils of culture. It must be diluted beforehand in water before its application and can be done together with other products and phytosanitary products. However, we recommend that you perform a previous compatibility test

	FOLIAR APPLICATION
OLIVE	1 - 1,5 l/ha (gasto de 2-3 l/Ha) en primavera, antes de la floración y otra segunda aplicación en otoño.
BEET	200 - 300 cc/ha, después del estado de las hojas (a partir de 6 - 8 hojas).
VINE Y PARRAL	200 - 500 cc/ha y gasto de 1 l/ha antes del cuajado.
CITRUS & FRUIT	200 - 300 cc/ha, realizando tres aplicaciones en prefloración a la caída de los pétalos y después del cuajado.
STRAWBERRIES	100 - 150 cc/ha y gasto de 1 l/ha a botón blanco antes de la prefloración y otra después de esta.
FLORALS & ORNAMENTALS	250 - 300 cc/ha y gasto de 4 l/ha al inicio de vegetación.
ALFALFA	1 - 2 l/ha, después de cada corte, cuando alcance 10 - 15 cm de altura y al aparecer las primeras flores.

	RADICULAR APPLICATION
IN GENERAL	In presiembra or first irrigation 3 - 4 l / ha, in case of moderate deficiencies the dose will be 4 - 5 l / ha and for serious deficiencies will be 5-6 l / ha

MN ZN

LIQUID MIXTURE OF COMPLEXED MICRONUTRIENTS

MN ZN developed for its preventive and curative application by foliar spraying and / or fertigation, both in herbaceous and woody crops.

It is compatible with commonly used insecticides or caries. In case of doubt carry out a preliminary test. It is recommended not to mix with very acidic or very alkaline products. Specialization of its components: Zinc, microelement essential for the activation of enzymatic processes, formation of starch, peptidases and proteins.

It also prevents the destruction of auxins. Manganese, a microelement essential for the formation of chlorophyll and is a catalyst for oxy-reduc reactions. In various metabolic processes. It is a highly specific product for the **activation of enzymatic processes of the plant and for the formation of proteins**.

GUARANTEED RICHES

Zinc (Zn)	5,00 % p/p
Manganese (Mn)	2,75 % p/p
Nitrogen ureic	5,00 % p/p

** Complexing agents: Hexa / Heptagluconates and lignosulfonates.
pH: 2,6 - Density: 1,2 a 45 ºC

DOSE

	FOLIAR APPLICATION
CÍTRICOS Y FRUTALES	150 - 300 cc/Hl.
FRUTALES TROPICALES	200 - 400 cc/Hl.
VID Y PARRA	100 - 200 cc/Hl.
FRESA, PATATA, TOMATE Y HORTÍCOLAS E INDUSTRIALES	150 - 300 cc / Hl per application, make 2 or 3 applications.

* Hydroponics: from 2 to 3 l / 100 m3 of nutrient solution.

	RADICULAR APPLICATION
IN GENERAL	3-8 / Ha and application according to culture. In general it is advisable to carry out 2-3 applications per crop cycle up to 20 L / Ha.

MG MIX

MIXTURE OF MICROELEMENTS

MG MIX, is a product formulated to be applied in all kinds of crops that have or have magnesium needs. By its composition **MG MIX** can be applied by foliar route or by fertirrigation.

It facilitates the absorption and transport of other elements, such as Phosphorus, at specific and important times of cultivation. It is intended to be compatible with normal insecticides and acaricides, in case of doubt carry out a preliminary test. A plant with optimal magnesium levels has greater resistance to adverse conditions such as drought, frost, hail, etc.

GUARANTEED RICHES

Magnesium (Mg)	6,00 % p/p
Iron (Fe)	1,50 % p/p
Boro (B)	0,30 % p/p
Copper (Cu)	0,30 % p/p
Manganese (Mn)	1,00 % p/p
Molybdenum (Mo)	0,10 % p/p
Zinc (Zn)	0,50 % p/p

pH: 2,2 - Density: 1,30 gr/cc.

DOSE

Hydroponic cultivation: 2 L / 100 m3 of nutrient solution (2 cc / hl).

	FOLIAR APPLICATION
CEREALS	2 l - 3 l/ha cuando antes estén las hojas, durante las primeras fases de crecimiento vegetativo. En caso de deficiencias realizar varias aplicaciones.
COTTON	2 l - 3 l/ha aplicar en caso de deficiencia.
HORTICULTURAL OF FRUIT	Una aplicación antes de la floración (1,5 - 2 l/ha) y más pronto en caso de deficiencia.
HORTICULTURAL SHEET	Hacer una aplicación (1,5 - 2 l/ha) en las primeras fases de crecimiento vegetativo, si existen síntomas, realizar varias aplicaciones.
VINE & STRAWBERRY	2 l/ha antes y después de la floración. Más aplicaciones en caso de deficiencias.

	RADICULAR APPLICATION
CITRUS	1.5-2 l / ha and week.
STRAWBERRY & HORTICULTURAL	2 l / ha and week.
TREES, OLIVE, PARRA VID	1-1.5 l / ha and irrigation (in 2 - 4 irrigations).

B+MO

MIXTURE OF MICROELEMENTS

B+Mo, is a corrector of Boron and molybdenum deficiencies formulated with new technologies in order to **optimize its absorption especially in the foliar applications**. Boro is an essential element for pollination and fruit set. It favors the synthesis and transport of sugar and is **involved in the reproductive phase of the plant.** Molybdenum is an essential micronutrient for crops. Their presence is essential both in the regulation of transcendent enzymes and in the reduction of nitrate to proteins. Molybdenum also participates in the regulation of iron and phosphorus in the plant.

GUARANTEED RICHES

Boro (B) soluble in water (In the form of salt Ethanolamine)	3,0 % p/p
Molybdenum (Mo) soluble in water (In the form of sodium molybdate)	3,5 % p/p

pH: 7,5
Density: 1,24 gr/cc.

DOSE

	FOLIAR APPLICATION
OLIVE	1 - 1.5 l / ha in spring, very important before flowering and other applications when symptoms appear.
BEET	2 - 3 l / ha after the condition of the leaves (from 6 - 8 leaves).
VINE	Apply 1-2min / ha before flowering, other applications when symptoms appear.
CITRUS & FRUIT	1.5-2 l / Ha, making three applications in prefloration and another after the fruit curd.
STRAWBERRIES	1 - 1.5 l / ha during the prefloration and another after this.
FLORALS & ORNAMENTALS	250-300 cc / hl. Apply 3 l / ha at the beginning of vegetation.
ALFALFA	1- 2 l / ha, after each cut, when it reaches 10 - 15 cm in height and when the first flowers appear.
COTTON	1 - 1.5 l / ha the first application in new foliage.
CROPS HYGIENIC	0.5-1 l / ha. The first application before flowering, and the second after this. Will be applied again when symptoms appear.

	RADICULAR APPLICATION
IN GENERAL	In pre-sowing or first irrigation 3 - 4 l / ha, in case of moderate deficiencies the Dose will be 4-5 l / Ha and for serious deficiencies will be 5-6 l / ha.

20-5-3

SOLUTION OF NPK LIQUID FERTILIZER

PFS 20-5-3 is a formulation which thanks to the purity of its components and the particular choice of adhesive and penetrant substances it contains **improves foliar absorption and has a rapid translocation of nutrients at the place of application.**

This product is manufactured in hot solution, in this way a total solubility is guaranteed. It contains in its formulation Nitrogen, Phosphorus and Potassium, enriched with EDTA chelated microelements constituting a complete fertilizer for all kinds of crops.

GUARANTEED RICHES

Nitrogen (N) total	20 % p/p
Phosphorus pentoxide (P_2O_5)	5 % p/p
Potassium oxide (K_2O) soluble in water	3 % p/p
Nitrogen (N) ammonia	5,4 % p/p
Nitrogen (N) nitric	4,8 % p/p
Nitrogen (N) ureic	9,8 % p/p
Magnesium oxide (MgO) soluble in water	0,01 % p/p
Boro (B) soluble in water	0,01 % p/p
Copper (Cu) soluble in water	0,006 % p/p
Iron (Fe) soluble in water	0,02 % p/p
Manganese (Mn) soluble in water	0,01 % p/p
Zinc (Zn) soluble in water	0,006 % p/p

pH: 6-7 - Density: 1,29 g/cc a 20 ºC

DOSE

	FOLIAR APPLICATION	RADICULAR APPLICATION
IN GENERAL	Apply during the vegetative cycle of 300 to 500 cc. By hl: 50 to 60 cc for 15 liters of water (backpack). To apply in irrigation indoor plants dilute two caps of PFS 20-5-3 in 10 liters of water once a month, during the growth period.	The dose per hectare should be much more high and correlative to nutritional requirements of crops. Ideal for fertigation of ornamental potted plants.

8-8-8

SOLUTION OF NPK LIQUID FERTILIZER

8-8-8, is a formulation which thanks to the purity of its components and the particular choice of adhesive and penetrant substances it contains **improves foliar absorption and has a rapid translocation of nutrients at the place of application.**

This product is manufactured in hot solution, in this way a total solubility is guaranteed. It contains in its formulation Nitrogen, Phosphorus and Potassium, enriched with EDTA chelated microelements constituting a complete fertilizer for all kinds of crops.

GUARANTEED RICHES

Nitrogen (N) total	8 % p/p
Phosphorus pentoxide (P_2O_5)	8 % p/p
Potassium oxide (K_2O) soluble in water	8 % p/p
Nitrogen (N) ammonia	0,6 % p/p
Nitrogen (N) nitric	0,8 % p/p
Nitrogen (N) ureic	6,6 % p/p
Molybdenum (Mo) soluble in water	0,001 % p/p
Boro (B) soluble in water	0,01 % p/p
Copper (Cu) soluble in water	0,002 % p/p
Iron (Fe) soluble in water	0,020 % p/p
Manganese (Mn) soluble in water	0,01 % p/p
Zinc (Zn) soluble in water	0,006 % p/p

pH: 6-8 - Density: 1,18 g/cc a 20 ºC

DOSE

	FOLIAR APPLICATION	RADICULAR APPLICATION
IN GENERAL	Apply during the vegetative cycle of 300 to 500 cc. Per hl: 50 to 60 cc per 15 liters of water (backpack). To apply in irrigation of plants of interior dilute two plugs of 8-8-8 in 10 liters of water once a month, during the period of growth.	The dose per hectare should be much more high and correlative to nutritional requirements of crops. Ideal for fertigation of ornamental potted plants.

8-16-8

SOLUTION OF NPK LIQUID FERTILIZER

8-16-8, is a formulation which thanks to the purity of its components and the particular choice of adhesive and penetrant substances it contains **improves foliar absorption and has a rapid translocation of nutrients at the place of application.**

This product is manufactured in hot solution, in this way a total solubility is guaranteed. It contains in its formulation Nitrogen, Phosphorus and Potassium, enriched with EDTA chelated microelements constituting a complete fertilizer for all kinds of crops.

GUARANTEED RICHES

Nitrogen (N) total	8 % p/p
Phosphorus pentoxide (P2O5)	16 % p/p
Potassium oxide (K_2O) soluble in water	8 % p/p
Nitrogen (N) ammonia	2 % p/p
Nitrogen (N) ureic	6 % p/p
Magnesium oxide (MgO) soluble in water	0,01 % p/p
Boro (B) soluble in water	0,01 % p/p
Copper (Cu) soluble in water	0,006 % p/p
Iron (Fe) soluble in water	0,02 % p/p
Manganese (Mn) soluble in water	0,01 % p/p
Zinc (Zn) soluble in water	0,006 % p/p

pH: 6-7
Density: 1,31 g/cc a 20 ºC

DOSE

	FOLIAR APPLICATION	RADICULAR APPLICATION
IN GENERAL	Apply during the vegetative cycle of 300 to 500 cc. Per hl: 50 to 60 cc per 15 liters of water (backpack). To apply in irrigation of plants dilute two plugs from 8-16-8 in 10 liters of water once a month during the growing period.	The dose per hectare should be much more high and correlative to nutritional requirements of crops. Ideal for fertigation of ornamental potted plants.

4-20-25

SOLUTION OF NPK LIQUID FERTILIZER

4-20-25, is a formulation which thanks to the purity of its components and the particular choice of adhesive and penetrant substances it contains **improves foliar absorption and has a rapid translocation of nutrients at the place of application.**

This product is manufactured in hot solution, in this way a total solubility is guaranteed. It contains in its formulation Nitrogen, Phosphorus and Potassium, enriched with EDTA chelated microelements constituting a complete fertilizer for all kinds of crops.

GUARANTEED RICHES

Nitrogen (N) total	4 % p/p
Phosphorus pentoxide (P2O5)	20 % p/p
Potassium oxide (K2O), soluble in water	25 % p/p
Nitrogen (N) ureic	4 % p/p
Boro (B) soluble in water	0,02 % p/p
Copper (Cu) soluble in water	0,002 % p/p
Iron (Fe) soluble in water	0,02 % p/p
Manganese (Mn) soluble in water	0,01 % p/p
Zinc (Zn) soluble in water	0,002 % p/p

pH: 8-10
Density: 1,54 g/cc a 20 ºC

DOSE

	FOLIAR APPLICATION	RADICULAR APPLICATION
IN GENERAL	Apply during the vegetative cycle of 300 to 500 cc. Per hl: 50 to 60 cc per 15 liters of water (backpack). To apply in irrigation of plants dilute two 4-20-25 plugs in 10 liters of water once a month during the growing period.	Fertigation: The dose per hectare should much higher and correlative to the nutrient requirements of crops. Ideal for orthopedic fertigation In pot

PFS POTASA

NK FERTILIZER SOLUTION

PFS POTASA, is a liquid fertilizer with a high content of potassium, destined to be applied mainly in the stages of the cycle with greater requirement of potassium. It is formulated so that it is quickly used by the plant organs that demand it, **improving the quality of the productive organs** (fruits, roots, bulbs, etc.) **and the general condition of the plant**.

GUARANTEED RICHES

Nitrogen (N) total	3 % p/p (4,3 % p/v)
Nitrogen (N) ureic	3 % p/p (4,3 % p/v)
Potassium Oxide (K_2O) soluble in water	30 % p/p (43,5 % p/v)

pH: 12,5
Density: 1.45 g / c.c
Chlorine-free product

DOSE

It can be applied at any time in the cycle as a source of potassium, although it is especially suitable for the steps of the cycle in which the extractions are greater, since the reserve organs begin to accumulate sugars.

	FOLIAR APPLICATION	RADICULAR APPLICATION
IN GENERAL	It is recommended to apply it at the 250 - 350 cc / Ha in beet, cotton, carrot, rainfed vineyard and in crops horticultural in general in general.	By Fertigation. Every 2 to 3 irrigations until complete 30 - 40 l / ha.

IRON 6%

IRON CHELATE

IRON 6% is a product designed for the treatment of iron deficiency in all types of crops and ornamental plants in highly alkaline and calcareous soils. As a source of micronutrients in hydroponic crops and for **liquid nutrient solutions in crops without soil**.

Recommended for application to soil. Use only in cases of recognized need. Do not exceed recommended doses.

GUARANTEED RICHES

Iron (Fe) soluble in water	6,00 % p/p
Iron chelated by EDDHA (as Fe)	5,7 % (mínimo)
Iron chelated o-o EDDHA (as Fe)	4,8 % (mínimo 4,5%)

pH: 4 - 9 (in aqueous solution).
Stability range: 3 - 11 (ph range where guaranteed
A good stability of the chelated fraction).

DOSE

	RADICULAR APPLICATION
HERBACES	Dose (kg / ha): 2.0 - 4.5 kg / ha. Application time: apply just before sowing or transplant or when symptoms of iron deficiency appear.
CITRUS AND TREES	Young people: 400 - 600 g per 100 m2. Mature trees: 150 - 450 g per tree. Annual maintenance 80 - 120 g per tree.
RASPBERRY, STRAWBERRY, ETC...	Apply 600 - 800 gr per 100 meters of cultivation.
SHRUBBERY ORNAMENTALS	Apply 16 - 40 gr per foot.
PLANTS ORNAMENTALS	Apply 50 gr per 10 m2.

Hydroponics: Concentrations of 1ppm (17.86 mmol / l) of iron can be achieved by adding 17 grams of IRON for Every 1000 liters of solution.

** These doses indicate upper and lower limits. The actual doses to be applied will depend on the size of the crop and of the degree of deficiency.

PFS
PRODUCT
FERTILIZER
SUSTAINABLE

Polígono Empresarium,
C/ Retama, 25 · Nave 17B · 50720 Cartuja Baja (Zaragoza)
Administration: 619 906 205 · Headquaters: 689 666 260
info@fertilizantesostenible.com

www.fertilizantesostenible.com