



Office: Unit 207, Ferdousi building,  
Ferdousi St., SHIRAZ-IRAN.

Factory: Faghihi Co., Glayol st., AB  
barik Industrial Zoon, Zarghan,  
FARS-IRAN.

Tel. +98 (71) 322 332 11  
+98 (71) 322 332 17

[info@fimaco.org](mailto:info@fimaco.org)

[www.fimaco.org](http://www.fimaco.org)



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# FIMACO

## Faghihi Industrial & Manufacturer Company

which established in 2010; develops, produces and supplies a wide range of specialty fertilizers and biostimulants for nutrification and foliar application. From the very beginning, **FIMACO** aimed to change agriculture for the better. Thanks to the experience acquired in these years of activity, the strong relationship with the greatest worldwide producers of raw materials, and the collaboration with important Universities and Research Centers, **FIMACO** provide a complete portfolio of fertilizers that optimize plant nutrition and maximize the performance of any crop. We are proud of our background. But in the meantime, we also focus on new developments combining R&D, Innovation, Flexibility and Sustainability. During the last years, we grew as a producer and distributor of specialty under on our own brand. With full-capacity human teams in every part of the process and crop specialists for all relevant crops and conditions worldwide, we share all our knowledge on fertilizers and our know-how on logistics, registrations, and marketing with our partners.



## MISSION

We aim to develop a complete and innovative fertilizers, natural products specifically designed to enhance quality and quantity of crop production.

## INNOVATION

In these challenging times, it is imperative that we act to build a more resilient agriculture industry. **FIMACO** has improved the R&D Division, a team of agronomists, engineers, chemists, biotechnologists, and biologists constantly involved in the development of innovative products and technologies. Rooted in our innovative spirit, this knowledge leads our way to create new solutions to growers for a more sustainable agriculture.

The working approach is based on 3 founding principles:

- **Innovative raw materials**, especially botanical extracts and compounds of vegetal origin, to combine agronomic efficacy with environmental sustainability;
- **High-tech manufacturing processes**, to keep the biostimulants properties of plant extracts and natural molecules unaltered;
- **Large scale product experimentation**, to ensure the highest standards of safety and effectiveness in all agricultural contexts

## VISION

Our vision for the world is based upon ensuring a sustainable future.



# THE NEW HARVANA CATALOGUE 2022

1 Commercial name

2 Main claim

3 Family

4 Function

5 Organic farming logo

6 Packaging image

7 Application

8 Compatibility

9 Dosages of application

3 / SPECIALTIES

2 METABOLIC ENHANCER  
IMPROVING FLOWERING  
AND FRUIT SET

# 1 VIGOR STIMULATOR

4 **PROMOTES SEED GERMINATION**

OPTIMIZES AND UNIFORMS FLOWERING

FACILITATES POLLEN GERMINATION AND FRUIT SET

DEVELOPS LEAF AREA AND INCREASES LEAF GREENNESS

**COMPONENTS**  
Humic acid, Fulvic acid, Seaweed

**MODE OF ACTION**  
VIGOR STIMULATOR is homogeneous powder mixture of Humic acid and Seaweed and is designed to support the growth of field crops, fruit and ornamental plants during the entire vegetation ranging from support for the formation of roots, growth, leaf area through the main periods of growth until flowering and fruit growth.

- Nutrient uptake improvement:** Fulvic acids create an organic coating around Macro and Micronutrients which is similar to plant tissues and easily penetrate inside them.
- Stimulates cell division and expansion:** Ascophyllum nodosum extract is rich in active ingredients with auxin- and cytokinin-like activity; as a result, it effectively stimulates cell division and expansion and promotes the proper hormone balance in plant tissues.
- Photosynthetic activity enhancement:** Humic acid stimulates the photosynthetic activity and augments the chlorophyll content and mesophyll cells. Besides its good chelating properties, humic acid flows well in various plant tissues and easily enters the roots, stems and leaves and transfers micronutrients from the plant surface to the plant tissue. Therefore, it is a key element in many foliar fertilizers.

5 

6 

7 **APPLICATION:**







8 **COMPATIBILITY:**

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

**PACKAGING:**

100 g

9 **METHODS OF APPLICATION** | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Fruit trees, Wine and Table grape, Industrial crops	At the beginning of season, 1 application Before flowering, 1 application After fruit set, 1 application After transplanting	100-150 g/ha/ 200 L water	100-150 g/ha/ 100 L water
Vegetables		100 g/ha/200 L water	100 g/ha/100 L water
Greenhouse crops		25-50 g/200 L water	25-50 g/100-200 L water
After transplanting		—	100 g/300 L water

➤ Dosages are calculated for normal water distribution  
➤ Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

**ANALYSIS**

Humic acid.....	25.6%
Total seaweed.....	25.6%
Fulvic acid.....	6%
Potassium.....	6%
Total organic matter.....	51%

**PHYSICO-CHEMICAL PROPERTIES**

pH (1% solution)..... 8 ± 0.5

-  FOLIAR APPLICATION
-  FERTIGATION
-  TOP DRESSING
-  BASAL DRESSING
-  HYDROPONICS

# WE ARE NOT THE BEST, BUT WE TRY TO BE THE BEST

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A COMPLETE PORTFOLIO OF FERTILIZERS TO  
OPTIMIZE PLANTS NUTRITION

**SPECIALTIES** **1** **P. 9**

**MESO and MICRO  
NUTRIENTS** **2** **P. 23**

**FOLIAR NPKs +  
MICRO** **3** **P. 31**

**FERTIGATION  
PRODUCTS** **4** **P. 35**

**COMPLEMENTARY  
PRODUCTS** **5** **P. 39**

**FERTILIZATION  
PLAN** **6** **P. 41**





# SPECIALTIES

**S**pecialties ensure the intake of several biologically active ingredients (natural phyto hormones, sugars, aminoacids, fulvic acids, humic acids, seaweed, etc.) whose synergic action stimulates plant metabolism with a simultaneous nourishing and strengthening effect. Specialties assure high yield standards with full respect for the environment.

## PRODUCTS

VIGOR STIMULATOR . . . . .	P. 10
VIGOR MEGAMINA (liquid) . . . . .	P. 11
VIGOR MEGAMINA (powder) . . . . .	P. 12
VIGOR HUMI.K . . . . .	P. 13
VIGOR ASCOFER . . . . .	P. 14
VIGOR MANURE . . . . .	P. 15
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VIGOR FRUZIN . . . . .	P. 17



## ROOT ENHANCER AND DEVELOPMENT

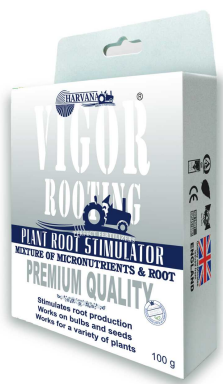
# VIGOR ROOTING

### ◆ STIMULATOR OF ROOT GROWTH

### ◆ SUITABLE FOR ALL TYPES OF PLANTS

### ◆ SUITABLE FOR CUTTINGS AND SEEDS

### ◆ INCREASES THE ABILITY OF PLANTS TO ABSORB SOIL NUTRIENTS



#### APPLICATION:



#### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

#### PACKAGING:

100 g

#### COMPONENTS

Zn-EDTA, Sodium Molybdate, Boric Acid

#### MODE OF ACTION

**VIGOR ROOTING** is a strong stimulant for the formation of roots from plant cuttings and is designed for a wide range of plants.

- ◆ **Zinc:** is involved in producing the growth hormone AUXIN (the plant hormone responsible for cell elongation and growth). Auxins are effective hormones in root growth.
- ◆ **Molybdenum:** converts inorganic phosphate into organic phosphorus, which is absorbed by the plant.
- ◆ **Boron:** is effective in absorbing phosphorus and potassium through the root by maintaining the function and membrane of the root cell wall. Boron plays an important role in the formation of root colonies and microrhizal fungi, which are effective in absorbing phosphorus.

#### METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Fruit trees, Wine and Table grape, Industrial crops	At the beginning of the growth cycle	100-150 g/ha/ 200 L water	100-150 g/ha/ 100 L water
Vegetables		100 g/ha/200 L water	100 g/ha/100 L water
Greenhouse crops		25-50 g/200 L water	25-50 g/100-200 L water
After transplanting		—	100 g/200 L water

- > Dosages are calculated for normal water distribution
- > Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

#### ANALYSIS

	W/W
Zn-EDTA .....	3.3%
Molybdenum (Mo) soluble in water .....	4.3%
Boron (B) soluble in water .....	2%
Calcium ligno sulfonate .....	8%
Total organic carbon .....	27%

#### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) .....	6.5 ± 0.5
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## METABOLIC ENHANCER IMPROVING FLOWERING AND FRUIT SET

# VIGOR STIMULATOR



- ◆ **PROMOTES SEED GERMINATION**
- ◆ **OPTIMIZES AND UNIFORMS FLOWERING**
- ◆ **FACILITATES POLLEN GERMINATION AND FRUIT SET**
- ◆ **DEVELOPS LEAF AREA AND INCREASES LEAF GREENNESS**



### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

100 g

### COMPONENTS

Humic acid, Fulvic acid, Seaweed

### MODE OF ACTION

**VIGOR STIMULATOR** is homogeneous powder mixture of Humic acid and Seaweed and is designed to support the growth of field crops, fruit and ornamental plants during the entire vegetation ranging from support for the formation of roots, growth, leaf area through the main periods of growth until flowering and fruit growth.

- ◆ **Nutrient uptake improvement:** Fulvic acid creates an organic coating around Macro and Micro-nutrients which is similar to plant tissues and easily penetrate inside them.
- ◆ **Stimulates cell division and expansion:** Ascophyllum nodosum extract is rich in active ingredients with auxin- and cytokinin-like activity; as a result, it effectively stimulates cell division and expansion and promotes the proper hormone balance in plant tissues.
- ◆ **Photosynthetic activity enhancement:** Humic acid stimulates the photosynthetic activity and augments the chlorophyll content and mesophyll cells. Besides its good chelating properties, humic acid flows well in various plant tissues and easily enters the roots, stems and leaves and transfers micronutrients from the plant surface to the plant tissue. Therefore, it is a key element in many foliar fertilizers.

### METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Fruit trees, Wine and Table grape, Industrial crops	At the beginning of season, 1 application Before flowering, 1 application After fruit set, 1 application	100-150 g/ha/ 200 L water	100-150 g/ha/ 100 L water
Vegetables		100 g/ha/200 L water	100 g/ha/100 L water
Greenhouse crops		25-50 g/200 L water	25-50 g/100-200 L water
After transplanting		—	100 g/300 L water

- Dosages are calculated for normal water distribution
- Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

### ANALYSIS

	W/W
Humic acid . . . . .	25.6%
Total seaweed . . . . .	25.6%
Fulvic acid . . . . .	6%
Potassium oxide (K <sub>2</sub> O). . . . .	6%
Total organic matter . . . . .	51%

### PHYSICO-CHEMICAL PROPERTIES

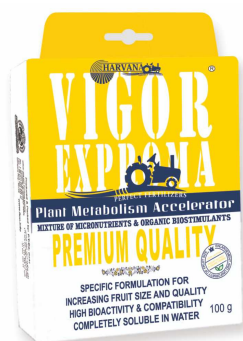
pH (1% solution) . . . . .	8 ± 0.5
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**METABOLIC ENHANCER  
INCREASING FRUIT SIZE  
AND QUALITY**

# VIGOR EXPROMA

- ◆ **INCREASES THE COLOR AND UNIFORMITY OF FRUIT SIZE**
- ◆ **REDUCES THE USE OF NITROGEN FERTILIZERS**
- ◆ **INCREASES THE QUALITY OF FRUITS**



## APPLICATION:



## COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

## PACKAGING:

100 g

## COMPONENTS

Zn-EDTA, Ca-EDTA, Boric acid, Ammonium Molybdate

## MODE OF ACTION

**VIGOR EXPROMA** is designed to improve fruit yield and quality specifically in Pistachio. **VIGOR EXPROMA** is highly rich in Zinc, Calcium, Boron and molybdenum.

**Calcium:** optimum fruit Ca concentration promotes fruit firmness, increases disease tolerance, reduces storage related disorders, promotes Nitrogen absorption and increases Nitrogen use efficiency.

**Boron:** An adequate B concentration promotes Ca mobility, regulates flowering and fruit set, and contributes to a stable fruit production.

**Zinc:** is involved in producing the growth hormone IAA (the plant hormone responsible for cell elongation and growth), the synthesis of tryptophan and Nitrogen metabolism. Also this micronutrient reduces fruit acidity.

**Molybdenum:** is involved in the fixation of atmospheric Nitrogen, metabolism of sulfur and purine, synthesis of growth hormone plant and the production and viability of pollen.

## METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Fruit trees, Wine and Table grape, Industrial crops	From fruit enlargement until 20 days before harvest, 2-3 application	100-150 g/ha/ 200 L water	100-150 g/ha/ 100 L water
Vegetables		100 g/ha/200 L	100 g/ha/100 L water
Greenhouse crops		25-50 g/200 L water	25-50 g/100-200 L water
After transplanting		—	100 g/300 L water

- > Dosages are calculated for normal water distribution
- > Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

## ANALYSIS

	W/W
Zinc (Zn) chelated by EDTA	3.5%
Calcium (Ca) chelated by EDTA	2%
Boron (B)	2.5%
Molybdenum (Mo)	3%

## PHYSICO-CHEMICAL PROPERTIES

pH (1% solution)	6.5±0.5
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**MICRO GRANULAR  
GROWTH PROMOTER  
BASED ON VEGETAL  
AMINO ACIDS**

# VIGOR MEGAMINA

- ◆ **PROMOTES THE  
SYNTHESIS OF PROTEINS  
AND NATURAL GROWTH  
SUBSTANCES**
- ◆ **PROMOTES ENERGY  
SAVING AND METABOLIC  
ACTIVITY**
- ◆ **OPTIMIZES THE EFFICACY  
OF ACTIVE INGREDIENTS**



## COMPONENTS

Amino Acid complex of vegetal origin

## MODE OF ACTION

**VIGOR MEGAMINA** contains highly concentrated extracts of Amino Acids. Thanks to its particular formulation, **VIGOR MEGAMINA** supplies high amounts of biologically active compounds (natural promoter of growth) and rapidly available Nitrogen which stimulates primary metabolism and optimize hormone balance. **VIGOR MEGAMINA** has antistress action and supplies high amounts of energy required for plant growth-related metabolism.

## METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
<b>Fruit trees, Wine and Table grape</b>	At the stage of sprouting of fruit trees, expansion and coloration of fruits, 2 applications	1-1.5 Kg/ha	2.5-3 Kg/ha
<b>Field crops (Corn, Wheat, Rice and etc.)</b>	During the whole crop cycle, 1 application	0.5 Kg/ha	2-2.5 Kg/ha
<b>Economic Crops (Cotton, Soybean and etc.)</b>	During the whole crop cycle, 2 applications	0.5-1 Kg/ha	2-2.5 Kg/ha
<b>Vegetables</b>	During the whole crop cycle, 1-2 applications	0.5 Kg/ha	0.5-1 Kg/ha
<b>Flower and ornamental crops</b>	During the whole crop cycle, 1-2 applications	50-100 g/hL	250 g/hL

- Dosages are calculated for normal water distribution volumes
- Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

## APPLICATION:



## COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

## PACKAGING:

1, 10 Kg  
1 Ton

## ANALYSIS

	W/W
Total Organic Matter . . . . .	90%
Total Amino Acid content . . . . .	80%
Total Organic Nitrogen (N) . . . . .	11.2%
Ammonium Nitrogen (N) . . . . .	5.6%
Ammonium sulphate . . . . .	5%
Free Amino Acid . . . . .	80%

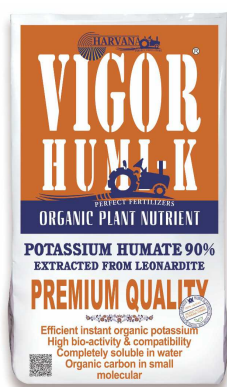
## PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) . . . . .	4.8 ± 0.5
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IMPROVER OF PLANT  
GROWTH AND NUTRIENT  
UPTAKE BASED ON  
HUMIC ACID EXTRACT

# VIGOR HUMI.K

- ◆ ENHANCES NUTRIENT UPTAKE BY ROOTS
- ◆ IMPROVES SOIL STRUCTURE AND FERTILITY
- ◆ REGULATES THE pH-VALUE OF SOIL
- ◆ IMPROVES THE MOBILITY OF PHOSPHORUS



#### APPLICATION:



#### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

#### PACKAGING:

1, 10 Kg  
1 Ton

#### COMPONENTS

Humic Acid, Fulvic Acid

#### MODE OF ACTION

**VIGOR HUMI.K** is a granular growth promoter extracted from LEONARDITE which is rich in Humic acid and Fulvic acid.

**Humic Acid:** stimulates the photosynthetic activity and augments the chlorophyll content and mesophyll cells. Besides its good chelating properties, Humic acid flows well in various plant tissues and easily enters the roots, stems and leaves and transfers micronutrients from the plant surface to plant tissue. Therefore, it is a key element in many foliar fertilizers.

**Fulvic Acid:** improves the growth and developments of the plant by carrying out an action similar to natural auxins; moreover, as natural chelating agents, they promote the uptake of micro-nutrients in the soil or supplied through fertilization.

#### METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Fruit trees, Wine and Table grape	At the stage of sprouting of fruit trees, expansion and coloration of fruits, 2-3 application	2-3 Kg/ha	5-6 Kg/ha
Field crops (Corn, Wheat, Rice and etc.)	During the whole crop cycle, 2 applications	1.5-2 Kg/ha	3-4 Kg/ha
Economic crops (Cotton, Soybean and etc.)	During the whole crop cycle, 1-2 applications	1-2 Kg/ha	3-4 Kg/ha
Vegetables	During the whole crop cycle, 2 applications	0.5-1.5 Kg/ha	2-3 Kg/ha
Flower and ornamental crops	During the whole crop cycle, 1-2 applications	100 g/hL	300 g/hL

- > Dosages are calculated for normal water distribution volumes
- > Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

#### ANALYSIS

	W/W
Total Organic Matter . . . . .	80%
Total Humic extract (as dry basis) . . . . .	65%
Fulvic Acid (as dry basis) . . . . .	5%
Potassium (as K <sub>2</sub> O dry basis) . . . . .	8%

#### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) . . . . .	9-11
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**NURISHES AND  
STRENGTHENS THE PLANT  
BASED ON SEAWEED  
EXTRACT**

# VIGOR ASCOFER

◆ **PROMOTES APPEARANCE  
AND GROWTH OF ROOTS**

◆ **STIMULATES ENZYME  
ACTIVITY OF SEED**

◆ **STRENGTHENS PLANT  
DEFENSE**

◆ **STIMULATES MICROBIAL  
ACTIVITY IN SOIL**

## COMPONENTS

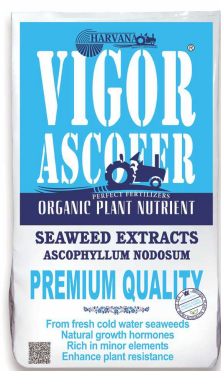
Ascophyllum nodosum

## MODE OF ACTION

**VIGOR ASCOFER** is a natural growth hormones extracted from fresh cold water seaweeds which is rich in minor elements that enhances plant resistance, especially the resistance to saline-alkali, acidification and water logging.

Ascophyllum Nodosum extract is rich in active ingredients with auxin- and cytokinin-like activity. As a result, it effectively stimulates cell division & expansion and promotes the proper hormone balance in plant tissues.

## METHODS OF APPLICATION | foliar + fertigation



## APPLICATION:



## COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

## PACKAGING:

1, 10 Kg  
1 Ton

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
<b>Fruit trees, Wine and Table grape</b>	At the stage of sprouting of fruit trees, expansion and coloration of fruits, 2 application	2-3 Kg/ha	4-6 Kg/ha
<b>Field crops (Corn, Wheat, Rice and etc.)</b>	During the whole crop cycle, 1 applications	1.2-1.5 Kg/ha	3-4 Kg/ha
<b>Economic crops (Cotton, Soybean and etc.)</b>	During the whole crop cycle, 2 applications	1-2 Kg/ha	3-4 Kg/ha
<b>Vegetables</b>	During the whole crop cycle, 1-2 applications	0.5-1 Kg/ha	1-2 Kg/ha
<b>Flower and ornamental crops</b>	During the whole crop cycle, 1-2 applications	100-200 g/hL	500 g/hL

➤ Dosages are calculated for normal water distribution volumes

➤ Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

## ANALYSIS

	W/W
Total Organic Matter	50%
Total Amino Acid content	2%
Total Organic Nitrogen (N)	1%
Potassium oxide (K <sub>2</sub> O)	16%
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> )	0.5%
Alginate acid	16%
Total plant growing regulator	600 ppm

## PHYSICO-CHEMICAL PROPERTIES

pH (1% solution)	8-11
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IMPROVER OF PLANT  
GROWTH BASED ON  
EXTRACTION OF BAT  
MANURE

# VIGOR MANURE

- ◆ PROMOTES THE DEVELOPMENT OF GREENER AND MORE COMPACT PLANTS
- ◆ PROMOTES PLANT VEGETATIVE GROWTH
- ◆ OPTIMISES THE PLANT'S NUTRITIONAL STATUS



#### APPLICATION:



#### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

#### PACKAGING:

1 - 5 - 10 - 20- 1000 Liter

#### COMPONENTS

Bat manure extraction, Organic matter, Macro and Micro nutrients

#### MODE OF ACTION

**VIGOR MANURE** is an organic fertilizer in liquid form that can be easily used to improve the physical, chemical and biological conditions of the soil. This product stimulates the micro organism activity and creates a better environment for the plant. Fulvic acid which enhances products, has a qualitative function and provides macro and micro-elements.

#### METHODS OF APPLICATION | fertigation

CROP	TIME OF APPLICATION	DOSAGE
Cereals or grain	At the first of season for vegetative growth, 2-3 applications	25 L/ha
Oil seeds		20-25 L/ha
Sugar beet		10-15 L/ha
Tropical fruit trees and cold trees		20-25 L/ha
Cultivation of summer crops		20-25 L/ha
Horticulture		20-25 L/ha
Greenhouse crops		10-15 L/ha
Ornamental plants and flower		10-15 L/ha
Legumes and alfalfa		10-15 L/ha
Vegetable		15-20 L/ha

> Dosages are calculated for normal water distribution volumes

> Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

#### ANALYSIS

	W/W
Total Organic Matter	12%
Organic Carbon (C)	6.8%
Total Nitrogen (N)	9%
Ureic nitrogen (N)	7.4%
Ammoniacal nitrogen (N)	1.3%
Nitrate nitrogen (N)	0.3%
Potassium oxide (K <sub>2</sub> O)	4%
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> )	6%
Iron (Fe) chelated by EDDHA	0.1%
Manganese (Mn) chelated by EDTA	0.3%
Copper (Cu) chelated by EDTA	0.02%
Magnesium (Mg) chelated by EDTA	0.4%
Zinc (Zn) chelated by EDTA	0.03%
Calcium oxide (CaO)	0.03%

#### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution)	6.5 ± 0.5
Density (at 20°C)	1.20 Kg/L

IMPROVER OF PLANT  
GROWTH BASED ON  
VEGETAL AMINO ACIDS  
AND SEAWEED

# VIGOR MEGAMINA

## ◆ PROMOTES PLANT VEGETATIVE GROWTH

## ◆ IMPROVES PLANT RECOVERY FROM STRESS

## ◆ OPTIMIZES THE EFFICACY OF ASSOCIATED PRODUCTS (FERTILIZERS, PLANT GROWTH REGULATORS, HERBICIDES) AND REDUCES THEIR SIDE EFFECTS



### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1 Liter

### COMPONENTS

Amino Acid complex of vegetal origin, Ascophyllum nodosum seaweed extract

### MODE OF ACTION

Due to the synergy between Amino Acids of vegetal origin (deriving from enzymatic hydrolysis, a process that does not alter their structure and functionality) and seaweed (rich in natural growth promoters), **VIGOR MEGAMINA**:

- ◆ **Promotes the synthesis of proteins and natural growth substances:** it is rich in tryptophan, the precursor of auxin biosynthesis.
- ◆ **promotes energy saving and metabolic activity** allowing the plant to grow even in environmental stress conditions.
- ◆ **Optimizes the efficacy of active ingredients** (herbicides, plant growth regulators) by carrying them into the plant and reducing their side effects.

### METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
<b>Fruit trees, Wine and Table grape</b>	During the whole crop cycle, 3-4 applications every 7-10 days	2-2.5 L/ha	10-20 L/ha
<b>Vegetables and industrial crops</b>	During the whole crop cycle, 3-4 applications every 7-10 days.	1.5-2 L/ha	10-20 L/ha
<b>Cereals</b>	During the whole crop cycle, 1-2 applications	3-5 L/ha	5-10 L/ha
<b>Flower and ornamental crops</b>	During the whole crop cycle, 2-3 applications every 7-10 days	100-200 mL/hL	1-2 L/1000 m <sup>2</sup>

➤ Dosages are calculated for normal water distribution volumes

➤ Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

### ANALYSIS

	W/W
Total Nitrogen (N) .....	8%
Organic Nitrogen (N) .....	4%
Ammoniacal Nitrogen (N) .....	4%
Organic Carbon (C) of biological origin .....	20%
Total amino acids .....	25%

### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) .....	5.9 ± 0.5
Density (at 20°C) .....	1.28 Kg/L

## IMPROVER OF POLLEN GERMINATION AND FRUIT SET

# VIGOR FRUZIN

### ◆ MAXIMIZES AND UNIFORMS FLOWERING

### ◆ FACILITATES POLLEN GERMINATION AND FRUIT SET

### ◆ INDUCES THE PLANT ANTI- STRESS AGAINST EARLY SEASON STRESSES

### COMPONENTS

Macro and Micronutrients, Vegetal Amino Acid

### MODE OF ACTION

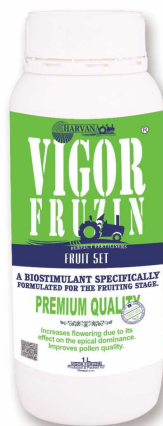
**VIGOR FRUZIN** is a new formulation with a high content of zinc, specifically suited to be used in preventive programs to treat multiple deficiencies, also designed to be applied at bud swell. It contains a planted formulation of boron with copper, molybdenum and zinc. Where these nutrients are deficient, reproductive bud viability, flowering and pollination maybe reduced along with increased flower abortion. This is particularly important during very hot or very cold temperatures.

### METHODS OF APPLICATION | foliar

CROP	TIME OF APPLICATION	DOSAGE
<b>Fruit trees, Wine and table grape</b>	From pre-flowering to fruit set, 2-4 applications every 10-15 days	2-3 L/ha
<b>Industrial crops and Summer crops</b>	From pre-flowering to fruit set, 2-4 applications every 7-10 days	2-3 L/ha
<b>Vegetable</b>	From post-transplanting to fruit set, 2-4 applications every 7-10 days	2-3 L/ha
<b>Greenhouse crops</b>	From post-transplanting to fruit set or at the beginning of the crop cycle, 2-4 applications every 7-10 days	200 cc/hL

> Dosages are calculated for normal water distribution volumes

> Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions



### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1 Liter

### ANALYSIS

	W/W
Total Organic Matter . . . . .	20%
X material . . . . .	9%
Total amino acid . . . . .	10%
Nitrogen (N) . . . . .	3%
Potassium oxide (K <sub>2</sub> O) . . . . .	2.5%
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) . . . . .	0.6%
Zinc (Zn) . . . . .	3.1%
Boron (B) . . . . .	0.8%
Iron (Fe) . . . . .	1.5%
Manganese (Mn) . . . . .	1.1%
Copper (Cu) . . . . .	0.15%
Molybdenum (Mo) . . . . .	0.08%

### PHYSICO-CHEMICAL PROPERTIES

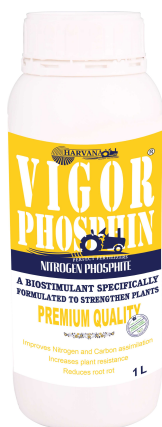
pH (1% solution) . . . . .	3.5±0.5
Density (at 20°C) . . . . .	1.20 Kg/L



**BOOSTER OF PLANT  
DEFENSE SYSTEM BASED  
ON COPPER AND  
PHOSPHOROUS ACID**

# VIGOR PHOSPHIN

- ◆ **INCREASES PLANT RESISTANCE**
- ◆ **REDUCES ROOT ROT**
- ◆ **CONTAINS FUNGICIDAL EFFECT**
- ◆ **PREVENTS LEAF AND FRUIT FALL**



#### APPLICATION:



#### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

#### PACKAGING:

1 Liter

#### COMPONENTS

Urea, Phosphorous acid

#### MODE OF ACTION

Nitrogen, as an essential element for plants, plays a significant role in the process of photosynthesis and chlorophyll production, production of amino acids, proteins and coenzymes, and the synthesis of carbohydrates.

**VIGOR PHOSPHIN** contains Phosphorus in a highly bioavailable form that:

- ◆ **Facilitates nutrient uptake and transport:** being extremely soluble and phloem mobile, it is rapidly and completely adsorbed and translocated inside the plant along with nutrients and active ingredients possibly associated.
- ◆ **Enhances the biosynthesis of phytoalexins:** compounds naturally produced by the plant to cope by biotic stresses. Phosphite increases the resistance of plants against fungal diseases by stimulating the secretion of phytoalexins and increasing the strength of the cell wall through the synthesis of phospholipids.

#### METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Fruit trees, Wine and Table grape, Vegetables and industrial crops	During the whole crop cycle, 4-6 applications every 7-10 days	2-2.5 L/ha	10-15 L/ha
Greenhouse crops	During the whole crop cycle, 4-6 applications every 7-10 days.	200-250 mL/hL	1-1.5 L/1000 m <sup>2</sup>

➤ Dosages are calculated for normal water distribution volumes

➤ Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

#### ANALYSIS

**W/W**

Total Nitrogen (N) . . . . . 14%  
Phosphorus (H<sub>3</sub>PO<sub>3</sub>) water soluble. . . . . 33%  
Copper (Cu) water soluble . . . . . 1%

#### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) . . . . . 2 ± 0.5  
Density (at 20°C) . . . . . 1.45 Kg/L

## PLANT GROWTH ENHANCER BASED ON PLANT EXTRACT

# VIGOR ORGANER

### ◆ PROMOTES PLANT VEGETATIVE GROWTH

### ◆ INCREASES PLANT RESISTANCE AGAINST ABIOTIC STRESS

### ◆ PROMOTES THE DEVELOPMENT OF GREENER PLANTS

### COMPONENTS

Plant extracts, Vegetal Amino acids, Macro and micro nutrients

### MODE OF ACTION

**VIGOR ORGANER** is a liquid fertilizer that improves the physical, chemical and biological conditions of the soil and stimulates the micro-organism activity led to a better environment for the plant.

**VIGOR ORGANER** contains chelated micro elements and enhances the quality of the products.

### METHODS OF APPLICATION | foliar + fertigation



CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Cereals or grain	During the whole crop cycle	3 L/ha	25 L/ha
Oil seeds		2-3 L/ha	20-25 L/ha
Sugar beet		1-2 L/ha	10-15 L/ha
Tropical fruit trees and cold trees		2-3 L/ha	20-25 L/ha
Cultivation of summer crops		2-3 L/ha	20-25 L/ha
Horticulture		2-3 L/ha	20-25 L/ha
Greenhouse crops		1-2 L/ha	10-15 L/ha
Ornamental plants and flower		1-2 L/ha	10-15 L/ha
Legumes and alfalfa		1-2 L/ha	10-15 L/ha
Vegetable		1-1.5 L/ha	15-20 L/ha

> Dosages are calculated for normal water distribution volumes

> Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1 Liter

### ANALYSIS

	W/V
Total Organic Matter . . . . .	14.5%
Free Amino acid . . . . .	2.5%
Organic Carbon (C) . . . . .	8%
Total Nitrogen (N) . . . . .	11%
Ureic nitrogen (N) . . . . .	9.2%
Ammoniacal nitrogen (N) . . . . .	1.5%
Nitrate nitrogen (N) . . . . .	0.3%
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ) . . . . .	7.5%
Potassium oxide (K <sub>2</sub> O) . . . . .	5%
Iron (Fe) chelated by EDDHA . . . . .	0.1%
Manganese (Mn) chelated by EDTA . . . . .	0.36%
Copper (Cu) chelated by EDTA . . . . .	0.02%
Magnesium (Mg) chelated by EDTA . . . . .	0.5%
Zinc (Zn) chelated by EDTA . . . . .	0.03%
Calcium oxide (CaO) . . . . .	0.03%

### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) . . . . . 6.5 ± 0.5

Density (at 20°C) . . . . . 1.20 Kg/L









# MESO&MICRO NUTRIENTS

**C**omplete range of products, suitable both for foliar application and fertigation, based on Meso and Micronutrients in different forms: chelated and complex forms. Meso and Micronutrients are available either alone to prevent and cure nutritional requirements at any growth stage and in any soil type.

## PRODUCTS

<b>Iron chelates</b> .....	P. 20
RED FIGHTER ortho-ortho 4.8% ..	P. 21
RED FIGHTER ortho-ortho 5.3% ..	P. 21
<b>Chelated Meso and</b>	
<b>Micronutrients</b> .....	P. 22-23
VIGOR MULTI .....	P. 24-25



# MESO AND MICRONUTRIENTS IRON CHELATES

## ◆ CURE AND PREVENT IRON DEFICIENCIES

## ◆ STIMULATE CHLOROPHYLL SYNTHESIS AND PHOTOSYNTHESIS

## ◆ IMPROVE FRUIT QUALITY

### PRODUCTS:

RED FIGHTER  
FE EDDHA 6%  
ortho-ortho 5.3%

RED FIGHTER  
FE EDDHA 6%  
ortho-ortho 4.8%

### APPLICATION:



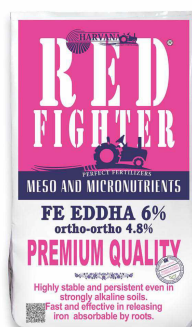
### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1 - 10 Kg  
1 Ton

Specific products that supply this important micro-nutrient in a form that is both stable and available for any crop in any soil type.



Extremely stable even in very alkaline and calcareous soils.

Rapid action.

Recommended on fruit trees and in case of severe symptoms of iron chlorosis



Cures and prevents iron chlorosis in sensitive crops (fruit trees)

Effective even in case of severe symptoms of iron chlorosis

Stable and persistent even in very alkaline and calcareous soils

### ANALYSIS AND PHYSICO-CHEMICAL PROPERTIES

	Iron (Fe) water soluble	Iron chelated by o,o-EDDHA	Iron chelated by o,p-EDDHA	pH	Range of pH stability
RED FIGHTER ortho, ortho - 5.3%	6	5.3	0.7	8.4±0.5	3-10
RED FIGHTER ortho, ortho - 4.8%	6	4.8	1.2	8.4±0.5	3-10

**6% IRON CHELATE EDDHA**  
**(5.3% ortho-ortho)**  
**(4.8% ortho-ortho)**

# RED FIGHTER

**RED FIGHTER** contain a high percent of Fe chelated by EDDHA, agronomically the most effective chelating agent for its stability, persistence and ability to release the micronutrient. The ortho-ortho EDDHA isomer, by forming higher amount of bonds with Iron proves more stable if compared to ortho-para type, characterized by a faster action. The presence of the two isomeric forms in different proportions makes **RED FIGHTER** more effectively.

## METHODS OF APPLICATION | fertigation

CROP	TIME OF APPLICATION	DOSAGE
<b>Fruit trees, wine and table grape</b>	At vegetative growth, before flowering, at fruit set and fruit enlargement	10-15 Kg/ha
<b>Vegetable and industrial crops</b>	Before flowering, at fruit set and fruit enlargement	5-10 Kg/ha
<b>Greenhouse crops</b>	Before flowering, at fruit set and fruit enlargement (vegetable crops) or during the whole crop cycle (leafy vegetables and flower crops)	10-15 Kg/ha

> Number of applications and dosages vary according to crop requirements and soil characteristics  
 > Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions



**RED FIGHTER**  
**FE-EDDHA 6%**  
**ortho-ortho 5.3%**

ANALYSIS	W/W
Iron (Fe) water soluble . . . . .	6%
Iron (Fe) chelated by [o,o] EDDHA . . . . .	5.3%
Iron (Fe) chelated by [o,p] EDDHA . . . . .	0.7%

### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) . . . . .	8.4±0.5
pH range guaranteeing acceptable stability of the chelated fraction . . . . .	3-10



**RED FIGHTER**  
**FE-EDDHA 6%**  
**ortho-ortho 4.8%**

ANALYSIS	W/W
Iron (Fe) water soluble . . . . .	6%
Iron (Fe) chelated by [o,o] EDDHA . . . . .	4.8%
Iron (Fe) chelated by [o,p] EDDHA . . . . .	1.2%

### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) . . . . .	8.4±0.5
pH range guaranteeing acceptable stability of the chelated fraction . . . . .	3-10



PRODUCTS BASED ON  
SINGLE OR MIXED MESO  
AND MICRONUTRIENTS  
CHELATED BY DIFFERENT  
CHELATING AGENT

# CHELATED MESO AND MICRONUTRIENTS

## ◆ CURE AND PREVENT MESO AND MICRONUTRIENTS DEFICIENCIES

## ◆ RAPID EFFECT



### PRODUCTS:

Zn-EDTA 15%  
Cu-EDTA 15%  
Mn-EDTA 13%  
Mg-EDTA 6%  
Ca-EDTA 10%  
VIGOR MULTI

### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1, 10 Kg

Complete range of products supplying Meso and Micronutrients chelated by EDTA in ratios and concentrations suited to satisfy the specific nutritional needs of each crop. The use of EDTA ensures efficacy and fast action: indeed, the chelating agent protects the Micronutrients and allows their full absorption by vegetal tissues.

### Zn-EDTA 15% Coming soon...

Involves in protein synthesis and seed formation

Promotes plant growth

Affects the permeability of cell membrane

Reduces fruit acidity

### Cu-EDTA 15% Coming soon...

Activates enzymes and catalyzes reactions in several plant-growth processes

Participates in Vitamin A production

### Mn-EDTA 13% Coming soon...

Plays a direct role in photosynthesis

Improves greenness

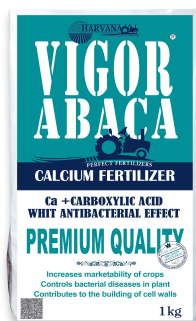
Increases the availability of phosphorus (P) and calcium (Ca)

Increases the sugar and protein content

### Mg-EDTA 6% Coming soon...

Increases number of green fruit

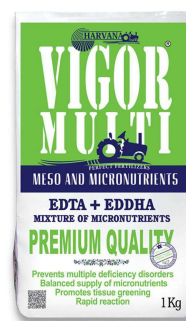
Reduces acid concentration  
Reduces peel thickness



Promotes Nitrogen absorption

Plays an important role in strengthening the tissue of the fruit cell wall

Promotes fruit ripening



Promotes the rapid regreening of foliage

Provides a balanced supply of Micronutrients

## METHODS OF APPLICATION | foliar + fertigation

PRODUCTS	DOSAGE	
	FOLIAR	FERTIGATION
Zn-EDTA 15%	1-1.5 Kg/ha	5-10 Kg/ha
Cu-EDTA 15%	1-2 Kg/ha	1-5 Kg/ha
Mn-EDTA 13%	1-1.5 Kg/ha	5-10 Kg/ha
Mg-EDTA 6%	1-3 Kg/ha	5-10 Kg/ha
Ca-EDTA 10%	1-2 Kg/ha	10-15 Kg/ha

- Number of applications and dosages vary according to crop requirements and soil characteristics
- Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

## ANALYSIS AND PHYSICO-CHEMICAL PROPERTIES

	Zn	Cu	Mn	Mg	Ca	pH
Zn-EDTA 15%	15	—	—	—	—	6.0 ± 0.5
Cu-EDTA 15%	—	15	—	—	—	6.0 ± 0.5
Mn-EDTA 13%	—	—	13	—	—	6.5 ± 0.5
Mg-EDTA 6%	—	—	—	6	—	6.5 ± 0.5
Ca-EDTA 10%	—	—	—	—	10	6.5 ± 0.5

## MIXTURE OF MICRO NUTRIENTS CHELATED BY EDTA AND EDDHA

# VIGOR MULTI

- ◆ PREVENTS MULTI DEFICIENCY DISORDERS
- ◆ PROVIDES A BALANCED SUPPLY OF MICRO NUTRIENTS
- ◆ RECOMMENDED FOR CROPS SENSITIVE TO IRON DEFICIENCY



### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1 Kg

**VIGOR MULTI** is a complete formulation that supplies Meso and Micronutrients in a balanced concentration suited to cure and prevent physiological disorders linked to multiple deficiencies. The presence of complexing agent guarantees the product in the range high performances and safe application even on young or sensitive crops.

### METHODS OF APPLICATION | foliar

CROP	TIME OF APPLICATION	DOSAGE
Fruit trees (pear, stone fruit, kiwi, strawberry), wine and table grape, vegetable and industrial crops (tomato, pepper, cucumber, melon and watermelon)	From pre-flowering to fruit enlargement, 2-4 applications every 10 days.	1-2 Kg/ha
Greenhouse crops	From pre-flowering to fruit enlargement (vegetable crops) or during the whole crop cycle (leafy vegetables and flower crops), 2-4 applications every 10 days.	100-200 g/hL

- Number of applications and dosages vary according to crop requirements and soil characteristics
- Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

### ANALYSIS

	W/W
Iron (Fe) chelated by EDTA . . . . .	5%
Magnesium (Mg) chelated by EDTA . . . . .	4%
Zinc (Zn) chelated by EDTA . . . . .	4%
Manganese (Mn) chelated by EDTA . . . . .	3.5%
Copper (Cu) chelated by EDTA . . . . .	0.6%
Boron (B) . . . . .	0.4%
Molybdenum (Mo) . . . . .	0.06%

### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) . . . . .	4 ± 0.5
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**MIXTURE OF MICRO  
NUTRIENTS CHELATED BY  
EDTA AND EDDHA**

# VIGOR MULTI

- ◆ **PREVENTS MULTI  
DEFICIENCY DISORDERS**
- ◆ **PROVIDES A BALANCED  
SUPPLY OF MICRO  
NUTRIENTS**
- ◆ **RECOMMENDED FOR  
CROPS SENSITIVE TO IRON  
DEFICIENCY**



#### APPLICATION:



#### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

#### PACKAGING:

10 Kg

**VIGOR MULTI** is a complete formulation that supplies Meso and Micronutrients in a balanced concentration suited to cure and prevent physiological disorders linked to multiple deficiencies. The presence of complexing agent guarantees the product in the range high performances and safe application even on young or sensitive crops.

#### METHODS OF APPLICATION | fertigation

CROP	TIME OF APPLICATION	DOSAGE
Cereals, legumes, alfa alfa	From pre-flowering to fruit enlargement 2-4 applications every 7-10 days	15-20 Kg/ha
Pistachio		20-25 Kg/ha
Sugar beet		15-20 Kg/ha
Tropical fruit trees/cold trees		20-25 Kg/ha
Citrus		10-20 Kg/ha
Cultivation of summer crops and vegetables		20-30 Kg/ha
Horticulture, ornamental plants and flowers		15-20 g/m <sup>2</sup>
Greenhouse crops		500 g/1000 m <sup>2</sup>

- Number of applications and dosages vary according to crop requirements and soil characteristics
- Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

#### ANALYSIS

	W/W
Iron (Fe) chelated by EDDHA	5%
Magnesium (Mg) chelated by EDTA	4%
Zinc (Zn) chelated by EDTA	4%
Manganese chelated by EDTA	3.5%
Copper (Cu) chelated by EDTA	0.6%
Boron (B)	0.4%
Molybdenum (Mo)	0.06%

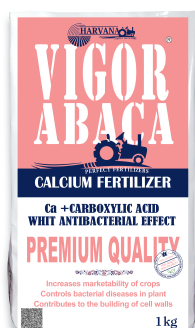
#### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution)	4 ± 0.5
------------------	---------

## MIXTURE OF CALCIUM AND CARBOXYLIC ACIDS WITH ANTIBACTERIAL EFFECT

# VIGOR ABACA

- ◆ CONTRIBUTES TO THE BUILDING OF CELL WALLS
- ◆ CONTROLS BACTERIAL DISEASES IN PLANTS
- ◆ IMPROVES STORAGE AND MARKETABILITY OF PRODUCT



### APPLICATION:



### COMPATIBILITY:

The product can not be mixed with all common formulations. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1 kg

**VIGOR ABACA** is a completely water soluble calcium fertilizer that contains carboxylic acids. This product is suitable for all irrigation, foliar and hydroponic systems. **VIGOR ABACA** not only compensates the plants' need for calcium, but also prevents and fights against bacterial diseases such as fire blight and bacterial canker.

**Calcium:** Calcium, in the form of calcium pectate, is responsible for contributing to the building of cell walls in plants. When calcium is deficient, new tissue such as root tips, young leaves, and shoot tips often have improper cell wall formation causing visual distortion in new growth. Calcium is also used in activating certain enzymes and sending signals that coordinate certain cellular activities.

### METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Fruit trees, wine and table grape	from pre flowering to fruit enlargement, 2-4 applications every 10-15 days	1-2 kg/ha	10-15 kg/ha
Vegetable and industrial crops	from feruit set to fruit enlargement, 2-4 applications every 10-15 days	1-2 kg/ha	10-15 kg/ha
greenhouse crops	from feruit set to fruit enlargement (veg. crops) or during the whole crop cycle (leafy vegetables and flower crops), 2-4 applications every 10-15 days	150-250 g/hL	1-1.5 kg/1000 m <sup>2</sup>

- Number of applications and dosages vary according to crop requirements and soil characteristics
- Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

### ANALYSIS

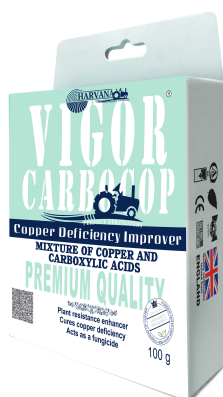
Chelated calcium (Ca) water soluble	10%
Boron (B) water soluble	0.3%
antibacterial agents	5 ppm

### PHYSICO-CHEMICAL PROPERTIES

pH (1% solution)	6 ± 0.5
------------------	---------

MIXTURE OF COPPER  
AND CARBOXYLIC ACIDS

## VIGOR CARBOCOP

◆ STRENGTHENS CELL WALLS  
AND PLANT TISSUES◆ ENHANCES COPPER  
UPTAKE AND  
TRANSLOCATION◆ ELIMINATES BACTERIA  
AND FUNGI

## APPLICATION:



## COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

## PACKAGING:

100 g

**VIGOR CARBOCOP** contains copper in a form that enables it to be absorbed through the leaves of the plant and treat the symptoms of copper deficiency.

**VIGOR CARBOCOP:**

**Improves the plant's nutritional status:** it prevents and treats Copper deficiencies and stimulates primary metabolism, thus allowing the plant to rapidly overcome the stress due to Copper application.

**Enhances the natural plant vigor and tolerance to biotic stress,** thanks to the action of Copper. In addition to being active against bacteria, it also acts as a fungicide and is able to eliminate diseases such as damping off, pistachio and citrus gummosis, peach leaf curl, stone fruit fire blight, and powdery mildew.

Acetate in this product can be absorbed as an organic fertilizer.

## METHODS OF APPLICATION | foliar + fertigation

CROP	TIME OF APPLICATION	DOSAGE	
		FOLIAR	FERTIGATION
Tomato, pepper, potato and eggplant	According to crop requirements	100-200 g/ 200 L water	1-2 kg/ha
Cucumber, watermelon, melon, squash		50-100 g/200 L water	1 kg/ha
Grapes and citrus		100-200 g/200 L water	1.5-2 kg/ha
Apples (during dormancy)		200-300 g/200 L water	1.5-2.5 kg/ha
Almonds		100-200 g/200 L water	2-2.5 kg/ha

- Number of applications and dosages vary according to crop requirements and soil characteristics
- Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

## ANALYSIS

w/w

Copper Acetate ..... 91%  
Total Copper ..... 25%

## PHYSICO-CHEMICAL PROPERTIES

pH (1% solution) ..... 5.5 ± 0.5







# FOLIAR NPKs + MICRO

**C**omplete range of products, specific for foliar application, based on Nitrogen, Phosphorus and Potassium enriched with Micro-nutrients, Macronutrients are present in ratios suited to fulfill crop nutritional requirements at different growth stages (rich in Nitrogen for vegetative development, in Phosphorus for flowering, in Potassium for fruit ripening).

All products are formulated with extremely pure raw materials which ensure an optimal solubility and nutrient uptake by the plant

## PRODUCTS

GREEN FOLIAGE . . . . . P. 28-29

3



## NPK FOLIAR FERTILIZERS WITH MESO AND MICRO NUTRIENTS

# GREEN FOLIAGE

**GREEN FOLIAGE** supply Nitrogen, Phosphorus and Potassium in ratios suited to satisfy the specific nutritional needs of each crop in every phenological phase (shifted towards a higher Nitrogen content for vegetative growth, a higher Phosphorus content for flowering, and a higher Potassium content for fruit ripening).

**GREEN FOLIAGE** are completed by chelated micronutrients and enriched with surfactants that ensure the rapid and total penetration into the leaves.

### PRODUCTS:

GREEN FOLIAGE 20.20.20  
GREEN FOLIAGE 12.48.8  
GREEN FOLIAGE 10.55.5  
GREEN FOLIAGE 0.15.45  
GREEN FOLIAGE 2.5.50  
GREEN FOLIAGE 0.6.56



Promotes vegetative growth  
and fruit enlargement



Improves flowering  
Promotes vegetative growth  
and a quick recovery from  
transplanting stress

### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

1 Kg



Promotes rooting and  
flowering



Improves tissue firmness  
Contains vegetative  
growth in favour of fruit  
development



Promotes fruit ripening  
Improves fruit quality  
(colour and sugar content)



Improves fruit quality (colour  
and sugar content)  
Controls excessive vegetative  
growth

## METHODS OF APPLICATION | foliar

PRODUCTS	Fruit trees, wine and table grape, vegetable and industrial open field crops		Greenhouse vegetable and flower crops	
	DOSAGE	TIME OF APPLICATION	DOSAGE	TIME OF APPLICATION
GREEN FOLIAGE 20.20.20	2.5-3 Kg/ha	From fruit set to fruit enlargement (3-4 application)	150-250 g/hL	From fruit set to fruit enlargement or during the whole crop cycle (flower crops) (3-4 application)
GREEN FOLIAGE 2.5.50	2.5-3 Kg/ha	From fruit enlargement to harvest (2-3 application)	150-250 g/hL	From fruit enlargement to harvest or at the end of the crop cycle (2-3 application)
GREEN FOLIAGE 10.55.5	2.5-3 Kg/ha	From vegetative reawakening to pre-flowering (2-3 application)	150-250 g/hL	From post-transplanting to pre-flowering (2-3 application)
GREEN FOLIAGE 0.15.45	2.5-3 Kg/ha	From fruit enlargement to harvest (2-3 application)	150-250 g/hL	From fruit enlargement to harvest or at the end of the crop cycle (2-3 application)
GREEN FOLIAGE 12.48.8	2.5-3 Kg/ha	From vegetative regrowth to pre-flowering (2-3 application)	150-250 g/hL	From post-transplanting to pre-flowering (2-3 application)

GREEN FOLIAGE 0.6.56		
CROP	TIME OF APPLICATION	DOSAGE
Fruit trees, wine and table grape	From fruit enlargement to harvest (2-3 application)	2.5-3 Kg/ha
Vegetable and open field industrial crops	From fruit enlargement to harvest (3-4 application)	3-5 Kg/ha
Greenhouse vegetable	From fruit enlargement to harvest (3-4 application)	200-400 g/hL
Flower crops	during the whole crop cycle (2-3 application)	100-200 g/hL

> Number of applications and dosages vary according to crop requirements and soil characteristics  
 > Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

## ANALYSIS AND PHYSICO-CHEMICAL PROPERTIES

	N-nitric	N-amm.	N-ureic	N-tot.	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	B	Cu-EDTA	Fe-EDTA	Mo	Mn-EDTA	Zn-EDTA	Mg-EDTA	pH
GREEN FOLIAGE 20.20.20	2	2	16	20	20	20	0.02	0.01	0.02	0.005	0.02	0.02	0.01	4.2±0.5
GREEN FOLIAGE 2.5.50	—	1	1	2	5	50	0.02	0.01	0.02	0.005	0.02	0.02	0.01	8.9±0.5
GREEN FOLIAGE 10.55.5	—	10	—	10	55	5	0.02	0.01	0.02	0.005	0.02	0.02	0.01	4.4±0.5
GREEN FOLIAGE 0.15.45	—	—	—	—	15	45	0.02	0.01	0.02	0.005	0.02	0.02	0.01	9.0±0.5
GREEN FOLIAGE 12.48.8	—	6	6	12	48	8	0.02	0.01	0.02	0.005	0.02	0.02	0.01	5.0±0.5
GREEN FOLIAGE 0.6.56	—	—	—	—	6	56	0.02	0.01	0.02	0.005	0.02	0.02	0.01	10±0.5







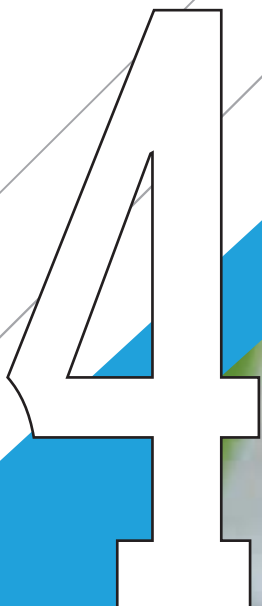
# FERTIGATION PRODUCTS

**C**omplete range of NPK fertilizers with Meso and Micro nutrients chelated by EDTA and EDDHA in powder form, specific for fertigation applications. These products are extremely pure and soluble and supply Macro, Meso and Micronutrients in ratios and concentrations specifically conceived to meet crop nutritional requirements at any growth stage and in any soil type.

All products are formulated with extremely pure raw materials which ensure an optimal solubility and nutrient uptake by the plant

## PRODUCTS

GREEN FOLIAGE ..... P. 32-33



## POWDER FERTIGATION FERTILIZERS WITH ACID REACTION

# GREEN FOLIAGE

- ◆ EXTREMELY PURE AND SOLUBLE
- ◆ CONTAIN MICRO NUTRIENTS CHELATED BY EDTA & EDDHA
- ◆ SPECIFIC FOR EVERY NUTRITIONAL REQUIREMENT

### APPLICATION:



### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

### PACKAGING:

10 Kg



Stimulate fruit enlargement



Improves root and shoot growth



Promotes rooting and flowering



Promotes fruit ripening

### METHODS OF APPLICATION | fertigation

CROP	DOSAGE
Fruit trees, industrial and open field vegetable crops	50-150 Kg/ha each application
Greenhouse vegetable and flower crops	5-15 Kg/1000 m <sup>2</sup> each application

- > Number of applications and dosages vary according to crop requirements and soil characteristics
- > Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

### ANALYSIS AND PHYSICO-CHEMICAL PROPERTIES

	N-nitric	N-amm.	N-ureic	N-tot.	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	B	Cu-EDTA	Fe-EDDHA	Mo	Mn-EDTA	Zn-EDTA	Mg-EDTA	pH
GREEN FOLIAGE 20.20.20	2	2	16	20	20	20	0.02	0.01	0.02	0.005	0.02	0.02	0.01	4.2±0.5
GREEN FOLIAGE 2.5.50	—	1	1	2	5	50	0.02	0.01	0.02	0.005	0.02	0.02	0.01	8.9±0.5
GREEN FOLIAGE 10.55.5	—	10	—	10	55	5	0.02	0.01	0.02	0.005	0.02	0.02	0.01	4.4±0.5
GREEN FOLIAGE 18.44.00	—	9	9	18	44	—	0.02	0.01	0.02	0.005	0.02	0.02	0.01	5.0±0.5

◆ Improves crop quality & sugar content

◆ High purity and solubility



#### METHODS OF APPLICATION | fertigation

CROP	TIME OF APPLICATION	DOSAGE
Fruit trees	During entire crop cycle due to lack of Nitrogen even till the end of season	100-200 Kg/ha
Vineyards (adult table grapes)	Use during central part of fertigation program. In case of deficiency, usable as of the start.	50-200 Kg/ha
Citrus (adult trees)	During entire crop cycle	150-300 Kg/ha
Vegetables	Beginning of vegetative growth until 2-4 weeks before harvesting	100-250 Kg/ha
(Processing) vegetables		
Potatoes	From tuber initiation till ripening stage	100-200 Kg/ha
Tomatoes	From 1 month after plantation until maturation stage	150-300 Kg/ha
Banana	During central part of fertigation program	200-300 Kg/ha

- > Number of applications and dosages vary according to crop requirements and soil characteristics
- > Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

#### APPLICATION:



#### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions and bordeaux mixture. A simple mixture test to check compatibility is advisable.

#### PACKAGING:

10 Kg

#### ANALYSIS AND PHYSICO-CHEMICAL PROPERTIES

N-nitric	N-amm.	N-ureic	N-tot.	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	B	Cu-EDTA	Fe-EDDHA	Mo	Mn-EDTA	Zn-EDTA	pH
—	6	—	6	36	25	0.2	—	0.03	—	—	0.06	4.4±0.5







# COMPLEMENTARY PRODUCTS

**S**pecific products to improve the performance of foliar applications, fertigation and hydroponics systems (pH indicator and corrector; corrector of sodic, saline and unstructured soils.)

All products are formulated with extremely pure raw materials which ensure an optimal solubility and nutrient uptake by the plant

## PRODUCTS

VIGOR ANTISALT . . . . . P. 36  
VIGOR COMPLEMENTARY . . . . . P. 36

5



**CORRECTOR OF SODIC,  
SALINE AND  
UNSTRUCTURED SOILS**

# VIGOR ANTISALT



- ◆ **INCREASES THE WATER'S ABILITY TO LEACH SODIUM**
- ◆ **REDUCES SALINITY OF THE SOIL**
- ◆ **INCREASES FERTILITY AND PRODUCTION**



#### APPLICATION:



#### COMPATIBILITY:

The product can be mixed with all common formulations, except with mineral oils, emulsions, bordeaux mixture and Calcium compounds. A simple mixture test to check compatibility is advisable.

#### PACKAGING:

VIGOR ANTISALT 5-10 L  
VIGOR COMPLEMENTARY 1 Kg

#### COMPONENTS

Sulfuric acid, Urea

#### MODE OF ACTION

**VIGOR ANTISALT** improves salinity of the soil. This product makes Calcium and Phosphate ions be available in soil and increases the absorbance of Ca and P. By increasing calcium ions in soil, Na ions are replaced with Ca and then saline reduction occurs. On the other hand, calcium release in soil can be absorbed by plants which increases the shelf life of the fruit in storage. **VIGOR COMPLEMENTARY**, containing Zn, Mn, Mg, Fe, Cu and B, is useful for plants during the crop cycle. These elements improve the quality and marketing of the products.

#### METHODS OF APPLICATION | fertigation

CROP	DOSAGE		TIME OF APPLICATION	
	VIGOR ANTISALT	VIGOR COMPLEMENTARY	VIGOR ANTISALT	VIGOR COMPLEMENTARY
Citrus, Fruit trees and Pistachio	150-300 cc/10 lit. water/tree 50-120 lit./ha/year	50-120 Kg/ha/year	30 lit./ha at the beginning of the season, 2-4 times during the season	30 Kg/ha at the beginning of the season, 2-4 times during the season
Wine and table grapes, Summer crops, Cereals like wheat, barley, maize, Oil seeds like canola and colza	50-120 lit./ha/year	50-120 Kg/ha/year		

> Dosages are calculated for normal water distribution  
> Please consult the Technical Service for application advice in specific crop and pedoclimatic conditions

#### ANALYSIS

	VIGOR ANTISALT W/W	VIGOR COMPLEMENTARY W/W
Ureic Nitrogen (N) . . . . .	10% . . . . .	—
Sulfur . . . . .	12% . . . . .	—
Iron (Fe) . . . . .	6% . . . . .	3.5%
Magnesium (Mg) . . . . .	— . . . . .	2%
Manganese (Mn) . . . . .	— . . . . .	3%
Zinc (Zn) . . . . .	— . . . . .	3%
Copper (Cu) . . . . .	— . . . . .	0.4%

#### PHYSICO-CHEMICAL PROPERTIES

pH (10% solution) . . . . .	<1 . . . . .	4-5
Density (at 20 °C) . . . . .	1.45±0.05 . . . . .	—

# FERTILIZATION PLAN





# Citrus



## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
VEGETATIVE REGROWTH	VIGOR STIMULATOR	100 g/ha/ 200 L water
PRE-FLOWERING	VIGOR MULTI	2 Kg/ha
	VIGOR MEGAMINA	1.5 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water
FLOWERING	VIGOR FRUZIN	3 L/ha
FRUIT SET	VIGOR MULTI	2 Kg/ha
	VIGOR MEGAMINA	1.5 Kg/ha
	VIGOR FRUZIN	3 L/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water
FRUIT ENLARGEMENT	0.6.56	2.5-3 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water
VERAISON	Ca-EDTA	3 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
VEGETATIVE REGROWTH	VIGOR HUMIC	5-6 Kg/ha
	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10-20 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 100 L water
	10.55.5	50-100 Kg/ha
PRE-FLOWERING	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10-20 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 100 L water
	20.20.20	50-100 Kg/ha
	VIGOR ANTISALT	30 L/ha
FLOWERING	20.20.20	50-100 Kg/ha
	VIGOR ANTISALT	25 L/ha
FRUIT SET	VIGOR MULTI	10-20 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water
	VIGOR ANTISALT	25 L/ha
FRUIT ENLARGEMENT	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10-20 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water
	2.5.50	50-100 Kg/ha
	VIGOR ANTISALT	25 lit./ha





# Stone Fruit



## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR MULTI	1.5 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water
FLOWERING	VIGOR MULTI	1.5 Kg/ha
	VIGOR FRUZIN	2 L/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water
PETAL FALL	VIGOR FRUZIN	2 L/ha
FRUIT SET	VIGOR MULTI	1.5 Kg/ha
	VIGOR FRUZIN	2 L/ha
FRUIT GROWTH	VIGOR EXPROMA	100 g/ha/ 200 L water
VERAISON	AMINOBOR	
	VIGOR EXPROMA	100 g/ha/ 200 L water
POST-HARVEST	VIGOR FRUZIN	2 L/ha



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
PRE-FLOWERING	VIGOR HUMIC	5-6 Kg/ha
	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 100 L water
	18.44.00	50-100 Kg/ha
FLOWERING	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 100 L water
	20.20.20	50-100 Kg/ha
PETAL FALL	VIGOR EXPROMA	100 g/ha/ 100 L water
	VIGOR ANTISALT	30 L/ha
FRUIT SET	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water
	VIGOR ANTISALT	20 L/ha
FRUIT ENLARGEMENT	VIGOR EXPROMA	100 g/ha/ 100 L water
	2.5.50	50-100 Kg/ha
	VIGOR ANTISALT	20 L/ha
VERAISON	VIGOR EXPROMA	100 g/ha/ 100 L water



# Apple



## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR MULTI	2 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water
PER-FLOWERING	12-48-8	2.5 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water
	Ca-EDTA	2 Kg/ha
FLOWERING	VIGOR MULTI	2 Kg/ha
	VIGOR FRUZIN	3 L/ha
PETAL FALL	VIGOR FRUZIN	3 L/ha
	Ca-EDTA	2 Kg/ha

TIME OF APPLICATION	PRODUCT	DOSAGE
FRUIT SET	Ca-EDTA	2 Kg/ha
	Mg-EDTA	2 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water
FRUIT GROWTH	Ca-EDTA	2 Kg/ha
	Mg-EDTA	2 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water
	2.5.50	3 Kg/ha
VERAISON	Mg-EDTA	2 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water
POST-HARVEST	VIGOR FRUZIN	3 L/ha



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR HUMIC	5-6 Kg/ha
PRE-FLOWERING	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 100 L water
	6.36.25	25-50 Kg/ha
	VIGOR ANTISALT	30 L/ha
	VIGOR ANTISALT	30 L/ha
FLOWERING	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 100 L water
	6.36.25	25-50 Kg/ha
PETAL FALL	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	Ca-EDTA	5 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water

TIME OF APPLICATION	PRODUCT	DOSAGE
FRUIT SET	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	Ca-EDTA	5 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water
	VIGOR ANTISALT	25 L/ha
FRUIT GROWTH	RED FIGHTER	
	VIGOR MULTI	
	2.5.50	25-50 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water
VERAISON	VIGOR ANTISALT	25 L/ha
	2.5.50	25-50 Kg/ha



# Grape



## FOLIAR APPLICATION

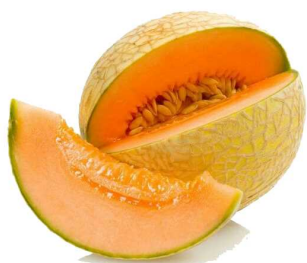
TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR MEGAMINA	1 Kg/ha
	VIGOR ASCOFER	3 Kg/ha
INFLORESCENCES VISIBLE	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	1.5 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water
	VIGOR FRUZIN	2 L/ha
	Mg-EDTA	1 Kg/ha
PRE-FLOWERING	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	1.5 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water
	VIGOR FRUZIN	2 L/ha
	Mg-EDTA	1 Kg/ha
BERRY ENLARGEMENT	VIGOR MEGAMINA	2 L/ha
	Mg-EDTA	1 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water
VERAISON	VIGOR EXPROMA	100 g/ha/ 200 L water
	Mg-EDTA	1 Kg/ha



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR HUMIC	5-6 Kg/ha
	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	5-10 Kg/ha
	VIGOR MANURE	20-25 L/ha
	6.36.25	25-50 Kg/ha
PRE-FLOWERING	VIGOR HUMIC	5-6 Kg/ha
	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	5-10 Kg/ha
	VIGOR MANURE	20-25 L/ha
	VIGOR ANTISALT	30 L/ha
	Ca-EDTA	5-6 Kg/ha
BERRY ENLARGEMENT	RED FIGHTER	5-10 Kg/ha
	VIGOR MULTI	5-10 Kg/ha
	VIGOR ANTISALT	30 L/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water
VERAISON	VIGOR EXPROMA	100 g/ha/ 100 L water
	2.5.50	25-50 Kg/ha





# MELON



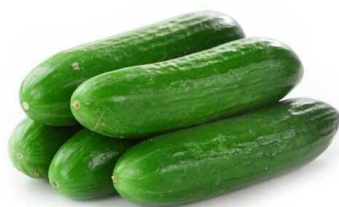
## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR MEGAMINA	0.5-1 L/ha
	VIGOR MULTI	1 Kg/ha
VEGETATIVE DEVELOPMENT	VIGOR MEGAMINA	0.5-1 L/ha
	VIGOR MULTI	1 Kg/ha
	12.48.8	2.5 Kg/ha
FLOWERING FRUIT SET	VIGOR STIMULATOR	100 g/ha/ 200 L water (2 APPLICATIONS)
	VIGOR FRUZIN	2 L/ha (2 APPLICATIONS)
FRUIT GROWTH	VIGOR EXPROMA	100 g/ha/ 200 L water
VERAISON	VIGOR EXPROMA	100 g/ha/ 200 L water
HARVEST	VIGOR EXPROMA	100 g/ha/ 200 L water



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR HUMIC	2 Kg/ha
VEGETATIVE DEVELOPMENT	VIGOR HUMIC	2 Kg/ha
	RED FIGHTER	3 Kg/ha
	VIGOR MULTI	5-10 Kg/ha
	VIGOR MANURE	20-25 L/ha
	VIGOR ANTISALT	30 L/ha
FLOWERING FRUIT SET	RED FIGHTER	3 Kg/ha
	VIGOR MULTI	5-10 Kg/ha
	VIGOR ANTISALT	20 L/ha
	VIGOR STIMULATOR	100 g/ha/ 100 L water (2 APPLICATIONS)
	6.36.25	50-100 Kg/ha
FRUIT GROWTH	RED FIGHTER	3 Kg/ha
	VIGOR MULTI	5-10 Kg/ha
	VIGOR ANTISALT	20 L/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water
	2.5.50	50-100 Kg/ha
HARVEST	RED FIGHTER	3 Kg/ha
	VIGOR MULTI	5-10 Kg/ha
	VIGOR ANTISALT	20 L/ha
	VIGOR EXPROMA	100 g/ha/ 100 L water



# Cucumber



## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	1 Kg/ha
VEGETATIVE DEVELOPMENT	VIGOR MEGAMINA	2 L/ha
	20.20.20	2.5 Kg/ha
FLOWERING FRUIT SET	VIGOR STIMULATOR	100 g/ha/ 200 L water (2 APPLICATIONS)
	12.48.8	2.5 Kg/ha
FRUIT GROWTH	0.15.45	2.5 Kg/ha
	Ca-EDTA	1 Kg/ha
HARVEST	0.6.56	2.5 Kg/ha
	Ca-EDTA	1 Kg/ha



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR HUMIC	2 Kg/ha
	Cu-EDTA	2 Kg/ha
VEGETATIVE DEVELOPMENT	VIGOR HUMIC	2 Kg/ha
	RED FIGHTER	5 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR MANURE	20 L/ha
	VIGOR ANTISALT	25 L/ha
	Ca-EDTA	5 Kg/ha
FLOWERING FRUIT SET	RED FIGHTER	5 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTI SALT	25 L/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water (2 APPLICATIONS)
	6.36.25	50-100 Kg/ha
	Ca-EDTA	5 Kg/ha
FRUIT GROWTH	RED FIGHTER	5 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTI SALT	25 L/ha
	2.5.50	50-100 Kg/ha
	Ca-EDTA	5 Kg/ha
HARVEST	RED FIGHTER	5 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTI SALT	25 L/ha
	Ca-EDTA	5 Kg/ha



# Processing Tomato



## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	1 Kg/ha
VEGETATIVE DEVELOPMENT	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	1 Kg/ha
	20.20.20	2.5 Kg/ha
PRE-FLOWERING	VIGOR STIMULATOR	100 g/ha/ 200 L water
	12.48.8	2.5 Kg/ha
	VIGOR FRUZIN	2 L/ha
FLOWERING FRUIT SET	VIGOR STIMULATOR	100 g/ha/ 200 L water
	VIGOR FRUZIN	3 L/ha
FRUIT GROWTH	0.15.45	2.5 Kg/ha
VERAISON	0.6.56	3 Kg/ha



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR HUMIC	2 Kg/ha
	10.55.5	50-100 Kg/ha
VEGETATIVE DEVELOPMENT	RED FIGHTER	2-5 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR MANURE	20 L/ha
	VIGOR ANTISALT	25 L/ha
	18.44.00	50-100 Kg/ha
FLOWERING FRUIT SET	RED FIGHTER	2-5 Kg/ha
	VIGOR MULTI	10 Kg/ha
	6.36.25	50-100 Kg/ha
	VIGOR STIMULATOR	100 g/ha/ 200 L water (2 APPLICATIONS)
FRUIT GROWTH	RED FIGHTER	2-5 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTI SALT	25 L/ha
	2.5.50	50-100 Kg/ha





# Greenhouse crops



**FOLIAR  
APPLICATION**

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR MEGAMINA	200 mL/hL
	VIGOR MULTI	100 g/hL
VEGETATIVE DEVELOPMENT	20.20.20	250 g/hL
FLOWERING FRUIT SET	VIGOR STIMULATOR	30 g/200 L water (2 APPLICATIONS)
	VIGOR MEGAMINA	200 mL/hL
	VIGOR MULTI	100 g/hL
	12.48.8	250 g/hL
FRUIT GROWTH	VIGOR MEGAMINA	200 mL/hL
	VIGOR MULTI	100 g/hL
	0.15.45	250 g/hL
VERAISON	VIGOR MEGAMINA	200 mL/hL
	VIGOR MULTI	100 g/hL
	2.5.50	250 g/hL
HARVEST	VIGOR MEGAMINA	200 mL/hL
	VIGOR MULTI	100 g/hL
	0.6.56	200 g/hL



**FERTIGATION  
APPLICATION**

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	STIMULATOR	100 g/ 300 L water
	10.55.5	5-10 Kg/1000 m <sup>2</sup>
VEGETATIVE DEVELOPMENT	RED FIGHTER	0.5-1 Kg/1000 m <sup>2</sup>
	VIGOR MULTI	500g/1000 m <sup>2</sup>
	20.20.20	5-10 Kg/1000 m <sup>2</sup>
	VIGOR ANTISALT	2L/1000 m <sup>2</sup>
FLOWERING FRUIT SET	RED FIGHTER	0.5-1 Kg/1000 m <sup>2</sup>
	VIGOR MULTI	500g/1000 m <sup>2</sup>
	18.44.00	5-10 Kg/1000 m <sup>2</sup>
	VIGOR STIMULATOR	100 g/ 300 L water
	VIGOR ANTI SALT	2L/1000 m <sup>2</sup>
FRUIT GROWTH	RED FIGHTER	0.5-1 Kg/1000 m <sup>2</sup>
	VIGOR MULTI	500g/1000 m <sup>2</sup>
	VIGOR ANTI SALT	2L/1000 m <sup>2</sup>
	2.5.50	5-10 Kg/1000 m <sup>2</sup>
	Ca-EDTA	0.5 Kg/1000 m <sup>2</sup>
HARVEST	RED FIGHTER	0.5-1 Kg/1000 m <sup>2</sup>
	VIGOR MULTI	500g/1000 m <sup>2</sup>
	2.5.50	5-10 Kg/1000 m <sup>2</sup>



# Potato



**FOLIAR  
APPLICATION**

TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR ASCOFER	1 Kg/ha
	VIGOR MULTI	1 Kg/ha
VEGETATIVE DEVELOPMENT	12.48.8	3 Kg/ha
	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	1 Kg/ha
PRE-FLOWERING	VIGOR STIMULATOR	100 g/ha/ 200 L water (2 APPLICATIONS)
	VIGOR MEGAMINA	2 L/ha
POST-FLOWERING	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	1 Kg/ha
PRE-HARVEST	0.6.56	3 Kg/ha



# Strawberry



## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR MEGAMINA	1 Kg/ha
	VIGOR MULTI	2 Kg/ha
VEGETATIVE DEVELOPMENT	VIGOR MEGAMINA	2 L/ha
	12.48.8	2.5 Kg/ha
FLOWERING FRUIT SET	VIGOR STIMULATOR	150 g/ha/ 200 L water
	12.48.8	2.5 Kg/ha
FRUIT GROWTH	VIGOR MULTI	2 Kg/ha
	VIGOR EXPROMA	100 g/ha/ 200 L water
	2-5-50	2.5 Kg/ha
	Ca-EDTA	1 Kg/ha
VERAISON	VIGOR EXPROMA	100 g/ha/ 200 L water
	Ca-EDTA	1 Kg/ha
	2-5-50	2.5 Kg/ha
HARVEST	Ca-EDTA	1 Kg/ha
	2-5-50	2.5 Kg/ha



## FERTIGATION APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
TRANSPLANTING	VIGOR HUMIC	5-6 Kg/ha
	VIGOR MEGAMINA	3 Kg/ha
VEGETATIVE DEVELOPMENT	VIGOR HUMIC	5-6 Kg/ha
	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	6.36.25	50-100 Kg/ha
	VIGOR ANTISALT	30 L/ha
FLOWERING FRUIT SET	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTISALT	25 L/ha
	VIGOR STIMULATOR	150 g/ha/ 100 L water
	18.44.00	50-100 Kg/ha
FRUIT GROWTH	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTISALT	25 L/ha
	VIGOR EXPROMA	150 g/ha/ 100 L water
	2.5.50	50-100 Kg/ha
HARVEST	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTISALT	25 L/ha
	Ca-EDTA	10 Kg/ha
	2.5.50	50-100 Kg/ha





# kiwi fruit



## FOLIAR APPLICATION

TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR FRUZIN	1 Kg/ha
	VIGOR MULTI	2 Kg/ha
PRE-FLOWERING	VIGOR MEGAMINA	2 L/ha
	VIGOR MULTI	2.5 Kg/ha
	VIGOR STIMULATOR	150 g/ha/ 200 L water
PETAL FALL	VIGOR MEGAMINA	150 g/ha/ 200 L water
	Ca-EDTA	2.5 Kg/ha
FRUIT GROWTH	VIGOR EXPROMA	100 g/ha/ 200 L water
VERAISON	VIGOR EXPROMA	100 g/ha/ 200 L water
	VIGOR MEGAMINA	2.5 Kg/ha



## FERTIGATION APPLICATION

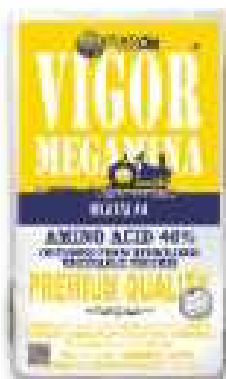
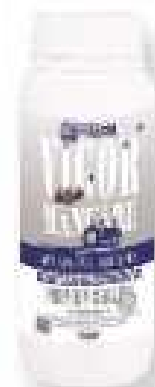
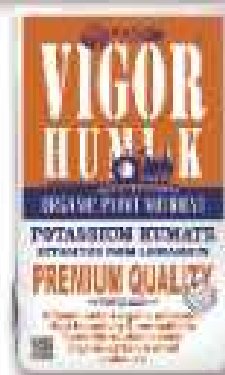
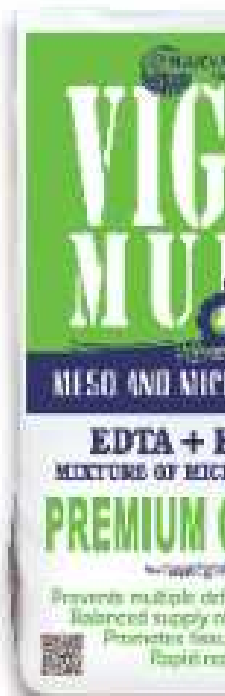
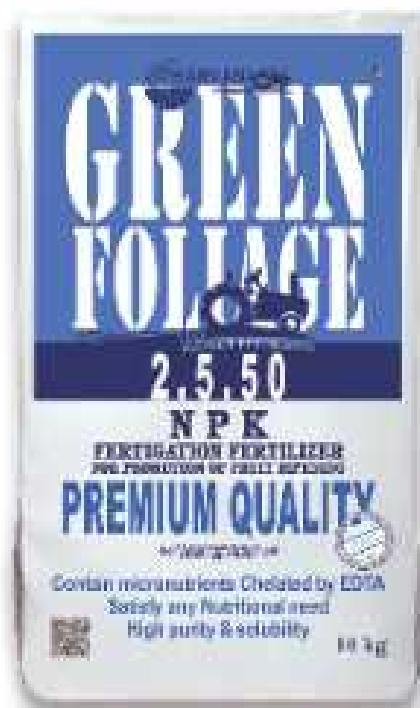
TIME OF APPLICATION	PRODUCT	DOSAGE
SPROUTING	VIGOR HUMIC	5-6 Kg/ha
	VIGOR MENURE	3 Kg/ha
PRE-FLOWERING	VIGOR STIMULATOR	5-6 Kg/ha
	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	10.55.5	50-100 Kg/ha
	Mn-EDTA	30 L/ha
FLOWERING	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	18.44.00	25 L/ha
	VIGOR STIMULATOR	150 g/ha/ 100 L water
	Mn-EDTA	50-100 Kg/ha
PETAL FALL	20.20.20	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTISALT	25 L/ha
FRUIT SET	RED FIGHTER	10 Kg/ha
	VIGOR MULTI	10 Kg/ha
	VIGOR ANTISALT	25 L/ha
	Ca-EDTA	10 Kg/ha
	2.5.50	50-100 Kg/ha





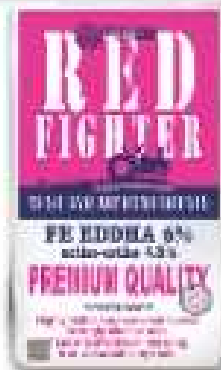
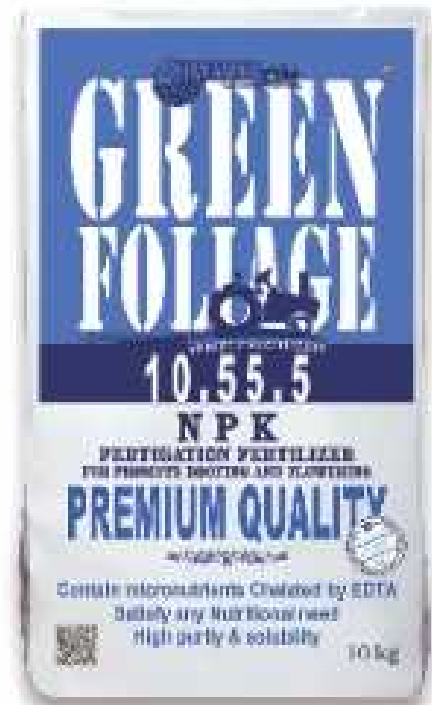
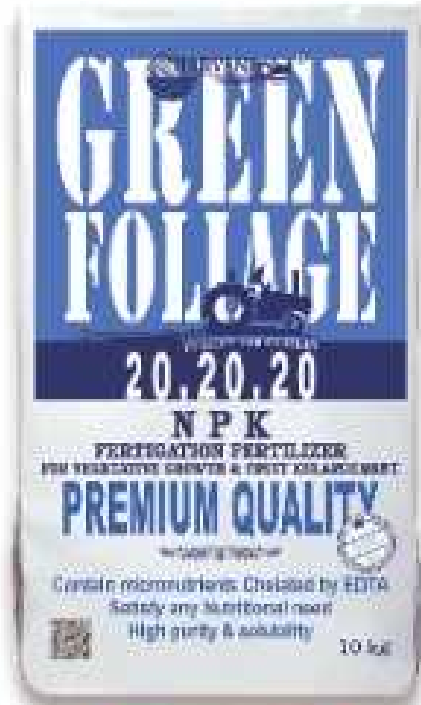






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