



# Agrolink Agricultural Company

[www.agrolink-eg.com](http://www.agrolink-eg.com)



Products Guide

**Agrolink** is the name of the leading regional agribusiness company committed to provide experienced and professional marketing services, offering the latest top quality range of different agricultural necessities

**Agrolink** has the strength of communication to supply the different needs to the different countries within the Middle East territory through the central location of Cairo Egypt.

**Agrolink** is present in most of the Middle East countries through our local Distributors and partners.

NEW as from November 2013 Agrolink is now in East Africa operating from our new affiliated **Agrolink Kenya** {AGROLINK AGRICULTURAL COMPANY LLC Nairobi Kenya}

distributors and partners.

**Agrolink** is ready to supply the various needs of top quality products using the facility of the free zone in Egypt to export to the whole territory.

**Agrolink** has a lean organization of experienced specialists in registration affairs, logistics, field and sales promotion.





**Agrolink** is the Middle East, North and Eastern Africa's Agent of the latest top quality of Agricultural necessities manufactures mainly in Europe and USA

Our catalogue is mainly focused on the specialty the environmentally safe products, can be used effectively in Organic agriculture within the following product range:



### **Crop Protection Products**



**Insecticides**



**Fungicides**



**Herbicides**



**Biological**



### **Crop Health Products**



### **Pheromone Lures and Traps**



### **Seeds**



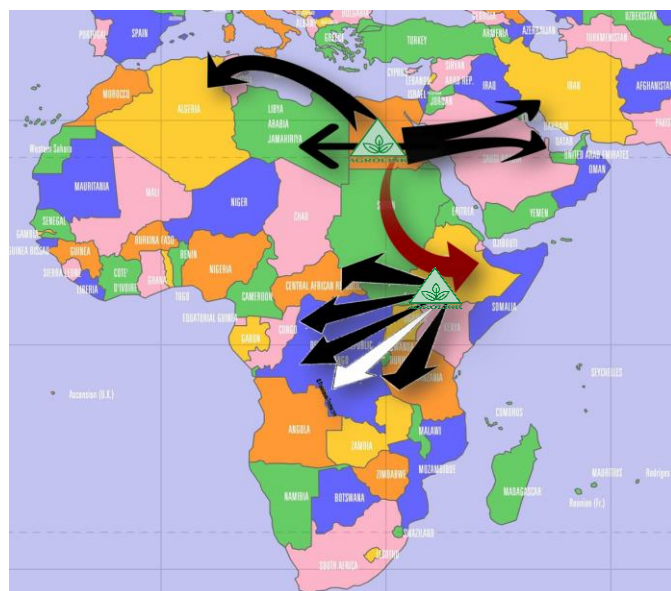
### **Bee- health**



### **Public health**



### **Crop protection equipment**



*Crop Protection  
Products*



**Cuppronica<sup>®</sup>**



**Verderame<sup>®</sup> 20% WP**



**Delfin<sup>®</sup> WG**



**Littovir<sup>®</sup>**



**Helicovex<sup>®</sup>**



**Neemix<sup>®</sup> 4.5**



**Nutrinal<sup>®</sup>**



**Naturame<sup>®</sup>**



**Bordoflow<sup>®</sup>**





**Cuppronica®** is a fungicidal speciality product based on Copper oxychloride provided of specific, marked action against downy mildew, blights, leaf spots, rusts and scabs offering the activity is preventive and easy safe application on most of the crops and environment..

It contains the equivalence of 50% (weight by weight) of pure copper metal and is manufactured according to the high quality specifications.

**Composition:** Copper Oxychloride 89% W/W equivalent to 50% as copper metal

**MODE OF ACTION:** The active ingredient is effective towards sensitive fungi in three ways: a) interferences on respiration (Acetyle coenzyme A and Krebs cycle); b) substitution of several cations (hydrogen, calcium, magnesium) of fungal wall; c) denaturation of enzymes and amino acids of cell membrane. Copper has protective activity.

**Recommendation of use:** Control of late blight of potatoes, tomatoes and other vegetables; leaf spot diseases of beet, celery, celeriac, parsley, olives, currants and gooseberries; downy mildews of vines, hops, spinach and ornamentals; canker and scab of pome fruit and stone fruit; scab, canker, and melons of citrus fruit; asparagus rust; peach leaf curl; shot-hole of stone fruit; cane diseases of raspberries and blackberries; leaf spot and leaf scorch of strawberries; anthracnose and blister blight of tea; leaf spot and downy mildew of cucumbers and melons; bacterial diseases of lettuce; etc.

**RATES OF APPLICATION:** 250-300g/hl according to the crop.

**STORAGE:** Store the product in its original labeled container, kept well sealed and in a cool, dry and ventilated room.

The container should be kept away from foodstuffs, Beverages and animal feed.

**Container** and stored in a dry place and a t an annual average temperature not exceeding 35C°



**Verderame®** is a Contact fungicide and bactericide based on Bordeaux mixture for use on Agriculture and horticulture; greenhouse and open field. Fruits crops with stone or pips, fig and pomegranate trees. Olive trees. Vines and grape.

## Composition:

**Copper-calcium sulfate 74% w/w (Equivalent to 20% Cu)**

## MODE OF ACTION:

The active ingredient is effective towards sensitive fungi in three ways: a) interferences on respiration

- A)(Acetylene coenzyme A and Krebs cycle);
- b) substitution of several cations (hydrogen, calcium, magnesium) of fungal wall;
- c) denaturation of enzymes and amino acids of cell membrane. Copper has protective activity.

## Recommendation of use:

Control of late blight of potatoes, tomatoes and other vegetables; leaf spot diseases of beet, celery, celeriac, parsley, olives, currants and gooseberries; downy mildews of vines, hops, spinach and ornamentals; canker and scab of pome fruit and stone fruit; scab, canker, and melons of citrus fruit; asparagus rust; peach leaf curl; shot-hole of stone fruit; cane diseases of raspberries and blackberries; leaf spot and leaf scorch of strawberries; anthracnose and blister blight of tea; leaf spot and downy mildew of cucumbers and melons; bacterial diseases of lettuce; etc.

## RATES OF APPLICATION:

**250-300g/hl** according to the crop

## STORAGE:

Store the product in its original labeled container, kept well sealed and in a cool, dry and ventilated room. The container should be kept away from foodstuffs, beverages and animal feed.

**Container** and stored in a dry place and at an annual average temperature not exceeding 35C°





## Delfin® WG Biological Insecticide

A water dispersible granule for the control of a range of caterpillars in  
Vegetables, Tomatoes, Vines, Fruit Trees, Kiwifruit and Tobacco

### Composition:

**Bacillus thuringiensis, subspecies kurstaki solids,**  
**Spores and lepidopteran active toxins . . . . . 85.0%**

### Characteristics:

- Delfin has exceptionally effective and fast action strain of Bt on most of lepidopterous larve
- DELFIN can safely be used for the protection of most crops in the field of Agriculture, forestry and Ornamentals..
- Delfin is exempted from tolerance requirements in USA
- Delfin is formulated in newly top quality WG formulation
- Delfin is certified for organic agriculture by **OMRI**

### Mode of action:

DELFIN WG is a biological insecticide based on the SA-11 strain of *Bacillus thuringiensis* (Bt) subspecies *kurstaki*. (Bt) is a spore-forming bacterium which produces, in addition to spores, crystals of a protein endotoxin. This endotoxin is specifically toxic to lepidopteran larvae.

DELFIN WG acts within the gut of the target larvae. DELFIN WG causes feeding inhibition within a few minutes of ingestion. Eventually disintegration of the gut wall and larval death occur. Dying larvae can be expected to be found for several days after application.

DELFIN WG is a selective agent that provides fast and effective control of lepidopteran larvae, without harmful effects on humans, domestic animals, honey-bees, wildlife, fish and beneficials. Thorough spray coverage is essential as DELFIN WG is active only if ingested by the caterpillar. Coverage of the underside of the leaf is important.



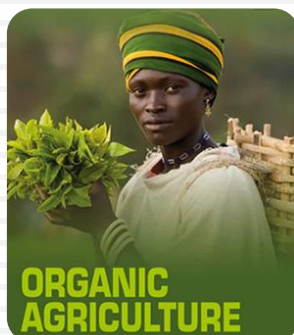
## Recommendations of use:

The given recommended uses and rates are to be considered as guidelines and may have to be adapted to local conditions and regulations.


Favorable results were also obtained in some other segments, but further testing is necessary

Main recommended uses and rates are given in the subsequent table:

Crop	Pests	Rate		Critical Comments
		High Volume /100 L water	Low Volume /ha	
Cole Crops Cabbage Cauliflower Broccoli Brussels Sprouts	Cabbage Moth ( <i>Plutella xylostella</i> ), Cabbage White Butterfly ( <i>Pieris rapae</i> )	25 g	500 g	Apply at first sign of infestation and repeat at 7 to 10 day intervals or as required to maintain control of pests. Higher volume sprays will improve coverage and performance. For low volume applications, use a minimum of 400 L/ha of water.
Vines	Vine Moth ( <i>Phalaenoides glycinae</i> ) Lightbrown Apple Moth ( <i>Epiphyas postvittana</i> )	12.5 g	-	Apply at first sign of infestation, as high volume spray and repeat as required to maintain control of pests, or spray as cover sprays complimentary to commonly used pesticides in an adequate spray program.
Fruit Trees	Lightbrown Apple Moth ( <i>Epiphyas postvittana</i> )			
Tobacco	Tobacco Looper ( <i>Chrysodeixis argentifera</i> )	25g		Apply as required by presence of Loopers.





Kiwi Fruit	Leaf Roller Caterpillar ( <i>Cryptoptila immersana</i> ), Lightbrown Apple Moth ( <i>Epiphyas postvittana</i> )	25 to 50 g		Use on early instar caterpillars. Use the higher rate on larger caterpillars. Apply after bud burst during periods of Lightbrown Apple Moth activity at 10 to 14 day intervals. Application during flowering is suitable as spray is non-toxic to bees.
Ornamentals	Loopers ( <i>Chrysodeixis</i> spp.) Lightbrown Apple Moth ( <i>Epiphyas postvittana</i> ), Native Budworm ( <i>Helicoverpa punctigera</i> ), Corn Earworm ( <i>Helicoverpa armigera</i> ), Dayfeeding Armyworm ( <i>Spodoptera exempta</i> ), Lesser Armyworm ( <i>Spodoptera exigua</i> ), Cluster Caterpillar ( <i>Spodoptera litura</i> )	25g		Ensure a thorough coverage of the foliage at first sign of infestation and repeat at 10 to 14 day intervals or as required.
Strawberries	Loopers ( <i>Chrysodeixis</i> spp.) Lightbrown Apple Moth ( <i>Epiphyas postvittana</i> ), Leaf Roller Caterpillar ( <i>Cryptoptila immersana</i> ), Budworms ( <i>Helicoverpa</i> spp.), Native Budworm ( <i>Helicoverpa punctigera</i> ), Corn Earworm ( <i>Helicoverpa armigera</i> ), Dayfeeding Armyworm ( <i>Spodoptera exempta</i> ), Lesser Armyworm ( <i>Spodoptera exigua</i> ), Cluster Caterpillar ( <i>Spodoptera litura</i> )	25g		

Apply when monitoring reveals significant infestation. Repeat at 7 to 10 day intervals as necessary.			Leaf Eating Caterpillars	Macadamias
Use the higher rate when <i>Helicoverpa</i> spp. pressure is high. Apply at first sign of infestation and repeat at 4 to 7 day intervals while crop is susceptible to pest damage. Higher volume sprays will improve coverage and performance. For low volume applications, use a minimum of 200 L/ha of water.	0.5 to 1.0 kg	50 to 100 g	<i>Helicoverpa</i> spp.	Tomatoes
Use the higher rate when <i>Helicoverpa</i> spp. pressure is high. Add Larvin 375 with heavy egg pressure. Use the high rate of Larvin for larger larvae. Higher volume sprays will improve coverage and performance.	0,5 to 1.0 kg plus 0.5 to 1.0 L Larvin 375	50 to 100 g plus 50 to 70 mL Larvin 375		
The presence of the predatory wasp, <i>Copidosoma</i> spp. may improve Potato Moth control.		100 g	Potato Moth ( <i>Phthorimaea operculella</i> )	





## A nucleopolyhedro virus (NPV) preparation for the biological control of the Egyptian cotton leaf worm (*Spodoptera littoralis*)



### Composition:

**Baculovirus of *Spodoptera littoralis* nucleopolyhedrovirus (SINPV)**

### Product Characteristics:

- Excellent tool to overcome chemical control resistance
- Certified and recommended for organic agriculture by FiBL Switzerland



### Mode of action:

**LITTOVIR®** (SINPV) is specific and highly virulent to its host. As with all insect baculoviruses, **LITTOVIR®** must be ingested by the larvae to exert an effect.

Following ingestion, the virus particles enter the haemolymph and are distributed throughout the larval body, where they multiply and kill the insect. Shortly after the death of the larva, the integument ruptures releasing large numbers of SINPV.

### Use Recommendations:

**LITTOVIR®** (SINPV) is specific for the control of *Spodoptera littoralis* (Egyptian cotton leaf worm) in the following crops:

- Cabbage • Maize • Spinach • Cotton • Melons • Sugar beet • Cowpea • Onion
- Sugarcane • Gourd • Pea • Tea • Groundnuts
- Potato • Tobacco

- Jute • Rice • Tomato • Lettuce • Soya bean • Wheat and many others

- Spray on eggs and first instars larvae

- Dosage per ha: 200 ml **LITTOVIR®** Dissolve in required amount of water.

- If possible, spray in the evening. The virus preparation is UV sensitive.

- Following treatments are recommended at 14 days intervals. In open field, following treatments are recommended already after 8 sunny days.

- The virus preparation can be combined with wettable sulphur and conventional fungicides or insecticides, but not with products containing copper, or highly alkaline substances (pH values of the sprayed mixture should lie between 5 and 8).



### Storage:

**LITTOVIR®** can be stored in the refrigerator ( $2^{\circ}$   $5^{\circ}$ C) for two years. Frozen it can be kept for years without any loss of activity.

## A nucleopolyhedrovirus (NPV) preparation for the biological control of the cotton bollworm (*Helicoverpa armigera*)

### Composition:

**Baculovirus of *Helicoverpa armigera* nucleopolyhedrovirus  
(HearNPV)**

### Product Characteristics:

- Excellent tool to overcome chemical control resistance
- Certified and recommended for organic agriculture by FiBL

- Switzerland

### Mode of action:

**Helicovex®** (HaNPV) is specific and highly virulent to its host.

As with all insect baculoviruses,

**Helicovex®** must be ingested to exert an effect.

Following ingestion, the virus particles enter the haemolymph and are distributed throughout the larval body, where they multiply and kill the insect. Shortly after the death of the larva, the integument ruptures releasing very large numbers of HaNPV.

### Use Recommendations:

**Helicovex®** (HaNPV) is specific for the control of *Helicoverpa armigera* (cotton boll worm) in the following crops:

• **Barley • Groundnuts • Potato • Beans • Leek • Soya bean • Citrus • Maize • Stone fruits • Cotton •**

**Oat • Sunflower • Cucurbit • Onion • Tobacco**

• **Flax • Pea • Tomato • Garlic • Pine • Wheat and many others**

- Spray on eggs and first instar larvae

**Dosage per ha: 200 ml :**

**Helicovex®**. Dissolve in required amount of water.

- If possible, spray in the evening. The virus preparation is highly UV sensitive.

- A second application after 14 days is recommended in greenhouses.

In open field, a second application is recommended already after 8 sunny days.

Per generation 2-3 applications of 200 ml/ha are necessary.

- The virus preparation can be combined with wettable sulphur and conventional fungicides or insecticides, but not with products containing copper, or highly alkaline substances (pH values of the sprayed mixture should lie between 5 and 8).

### Storage:

**Helicovex®** can be stored in the refrigerator (5 °C) for at least two years.

Frozen it can be kept for years without any loss of activity.





# Neemix® 4.5%

Insect Growth Regulator

Crop Protection  
Products

Kills/repels a variety of insect pests including whiteflies, caterpillars, leafminers, aphids, and diamondback moths.

## FOR ORGANIC PRODUCTION

### Composition:

**Azadirachtin 4.5%**

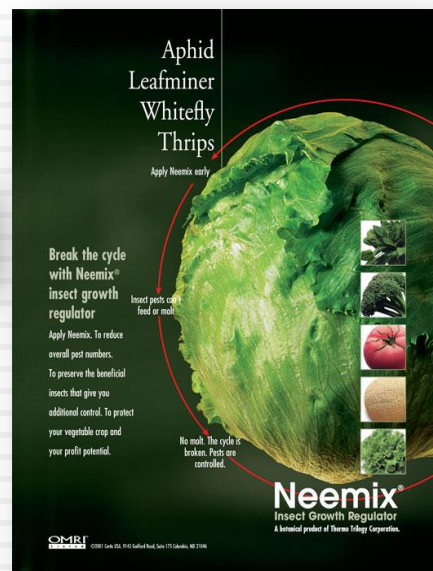
### Characteristics:

- Botanical Insecticide Concentrate.
- Kills larval stages of insects only.
- Recommended for organic agriculture By OMRI



### Mode of Action:

This product controls targeted insect larvae when ingested or come in contact with it, by interfering with the insects' ability to molt. It is effective on all larval stages and pupae. It also reduces damage by repelling and deterring feeding of all stages of insect.



### Use Recommendations:

- Shake well before using.
- Spraying directly onto the pest and a longer duration of leaf wetting increases effectiveness. Apply in early to mid-morning or late afternoon.
- The pH of spray solution containing Neemix® 4.5 must be kept between 3 and 8. Use spray solutions within several hours of preparation for maximum effectiveness.
- Do not apply to wilted or otherwise stressed plants, or to newly transplanted material prior to root establishment.



# Neemix® 4.5%

Insect Growth Regulator

Crop Protection  
Products

Remarks	Frequency	ml/acre	Pest
Foliar application to larvae and nymph	4:10days 3:7days	150:250 ml 250:570 ml	Whitefly Low pressure High pressure
Suppression and adult feeding deterrence	7:10 days	180:250 ml	Aphids
Foliar application to larvae and nymph	14:21 days	150:250 ml	Leaf miner
Foliar application to larvae	7:10 days	150:350 ml	Armyworms
Foliar application to larvae and nymph	7:10 days	250:570 ml	Others (including) Borers Leafhoppers Leaf rollers Loppers



## Insect Attractant for the use in a mixture with insecticides for the control of Fruit and Olive flies

### COMPOSITION:

Hydrolysed Proteins..... 36 % (w/w)

Carbohydrates.....8% (w/w)

(Amino acids & peptides concentrate in a mixture with sugar in water solution)

**NUTRINAL®** Fly bait attractant made of Hydrolysed Proteins. It has to be used in mixture with authorised insecticides to increase their efficacy for Diptera pests.

### CROPS AND DOSAGE:

**NUTRINAL®** is used in several crops that are affected by *Diptera* such as:

- ☐ Citrus (*Ceratitis capitata*)
- ☐ Stone Fruits (*Ceratitis capitata*)
- ☐ Cherries (*Rhagoletis cerasi*)
- ☐ Olives (*Bactocera oleae*)
- ☐ Others



### Dosage and Application:

**NUTRINAL®** is applied by foliar spray in a dosage rate proportional to the insecticide used in mixture at 0.5-1.5 % (0.5-1.5 L in 100 L water)

Start the applications when the adult flies begin to fly (possibly monitored by means of pheromone traps) then follow up every 7-10 days until the safety time of the insecticides reached before the fruit harvest.

**Foliar application:** Treat the branches well exposed to the sunlight or the lower part of the canopy, in mixture with the chosen insecticide at its normal dosage rate.

**Trap bottles:** Fill the traps (plastic bottles half cut and with the inward neck) with the solution containing **NUTRINAL®**





# Naturame®

Crop Protection  
Products

## Speciality Copper complexed to Fungicide & Bactericide in a mixture of amino acids

### Naturame®

is a new fungicide based on a complex between amino acids and copper containing COPPER (from COPPER Sulphate Pentahydrate) in formulation with natural amino acids and peptides.

### Composition:

Copper sulphate pentahydrate	% w/w	20%
Amino acids and peptides	% w/w	19%
Total Nitrogen	% w/w	3.3%
Sulfur	% w/w	7.8%



## Product Characteristics:

The particular characteristic of this formulation allows to the **COPPER** formulated in this way to show a strong fungicide activity, in facts the contemporaneous presence of amino acids and the **COPPER** salt allows an easy penetration, assimilation and metal mobility. This result leads to the fact that in comparison to the traditional **COPPER** formulations, the fungicide activity is displayed at a **COPPER** dosage rate one fifth lower than the **COPPER** necessary with the classical formulations.



Ancient Egyptian harvesting wheat.

The main feature of this product is high efficacy: **Naturame®** is 4 times more effective with respect to a traditional copper-based fungicide, having the same copper content. For this reason it's interesting for organic farming use and the reduction of copper dosages, since European Community Regulations impose to appreciably diminish them. Therefore **Naturame®** permits the control of the fungus diseases maintaining very low levels of environmental impact.

It is important to point out that this new fungicide, as well as every **COPPER** product, does not provoke resistance phenomena towards the controlled diseases.



## Mode of action:

Foliar Fungicide/Bactericide with protective action. Has contact activity, and also Nutritional Biostimulant action. The particular characteristic of this formulation allows the COPPER formulated in this way

to show a strong fungicide activity, in facts the contemporaneous presence of amino acids and the COPPER salt allows an easy penetration, assimilation and metal mobility.

This result leads to the fact that in comparison to the traditional COPPER formulations, the fungicide activity is displayed at a COPPER dosage rate one fifth lower than the COPPER necessary with the classical formulations.

**Therefore Naturame®** permits the control of the fungus diseases maintaining very low levels of environmental impact. It is important to point out that this new fungicide, as well as every COPPER product, does not provoke resistance phenomena towards the controlled diseases.

## Recommendation of Use:

**Naturame** is an ideal tool for organic farming showing an excellent biostimulant action on the crop growth due to the presence of the Amino and Pentides.

**Naturame** is particularly suitable to act as a nutritional source of  $\alpha$  Moreover, the presence of amino acids and short chain peptides, be their well known bio-stimulating effects, assures penetration, assimilation transport of copper in the plant tissues. As a consequence, very low dose of copper can be employed. **Naturame** can be utilised in foliar treatment or in fertigation, mainly at springtime start (all crops) and before fruit ripening (fruit trees) and after the tubers formation has started (potato)





## Rate of application:

Crops	Pathogen	Foliar treatment at normal volume (1.000 L/ha)	Foliar treatment at low volume (1.000 L/ha)
<b>Fruit crops, grapevine, olive</b>	Downy mildew, leaf spots and Rust	200-250 cc/100 L water	1.2 l/ha
<b>Vegetable crops</b>	Downy mildew, leaf spots, Blights and rust	200 cc/100 L water	1 l/ha



**Crop Health  
Products**



**Agroton®**



**Agrocopper®**



**Natrucal®**



**Naturfer®**



**Robust®**



**Lithovit®**



**Lithovit® N**



**Lithovit® Boron**



## Natural organic fertiliser & biostimulant based on amino acids and peptides.

Authorised on organic farming according to MIPAF circular no. 8 of 13/09/1999

COMPOSITION AND CHARACTERISTICS (w/w)%			
Dry Matter	60	Organic Matter	50
Total Nitrogen (N)	8.5	Organic Carbon (C)	26
Organic Nitrogen (N)	8.0		
Ammonium Nitrogen (N)	0.5	Solubility in water (at 20°C)	Total
α-aminic Nitrogen (N)	3.5	Density (at 20°C)	1.27 g/L
Total amino acids	50	PH sol. 10 %	6.0-7.0
Free aminoacids	15	Average molecular weight	800-1000 Da

**Agroton®** is a liquid fertiliser ecologically produced solely from amino acids and peptides. This natural fertiliser gives the plants amino acids and peptides they need, saving biological energy required for their synthesis, and it is also characterised by a quick absorption and systemic translation throughout aerial parts of the plants. Due to its easy and fast metabolization **Agroton®** performs biologically useful actions:

- •Nutritional and reconstitute function with formation of proteins and carbohydrates
- •Hormone-like action or equilibrating and synergizing action on endogenous PGRs
- •Catalyzing power and biostimulating action on the activities of main and fundamental enzyme systems
- •Better transport and use of the micro-elements
- •Water equilibrium regulation





**Moreover**, the use of amino acids and peptides is environmentally safe and ecologically compatible, therefore treated crops can be harvested even immediately after the treatment and no residue limits are required.

It is very important to use **Agroton®** when plants are in the main physiological moments of need (vegetative resumption, flowers' formation and buds' differentiation, fruit-setting, fruit (tubers, bulbs or ears) swelling and at colour change. Also when plants are stressed by external, environmental or vegetative factors such as: nutritional carencies, water disequilibrium, drought, low temperatures, frost or hail, post-emergence herbicides' application, transplant or grafting crisis, phyto-toxicity caused by erroneous use of pesticides or herbicides, virus or fungus diseases.

**Agroton®** is mixable with the most common herbicides and plant protection products. Dosages may change depending on soil and environmental conditions, crop vegetative phase, stress intensity, and are referred to the standard treatment with 1000 L water/Ha. In any case do not overcome 6 L/Ha (fruit & industrial crops or 2 L/Ha (horticultural) dosages.



<b>Foliar fertilisation:</b>	<b>3 or 4 treatments every 12 -15 days</b>	<b>200-300 mL/ 100 L of water</b>
<b>Fertigation:</b>	<b>Every 15 days</b>	<b>5 kg/hectare</b>



**Special fertiliser based on copper complexed to amino acids and peptides.**



## Agrocopper®

is a liquid fertiliser containing copper complexed to a mixture of amino acids and peptides of natural origin. These substances form a real chelate that carries the microelement into plant tissues. So the plant does not spend energy in transport of copper, which is available for uptake and rapidly reaches plant organs, which show deficiency of copper.

**Copper** plays an essential role as micronutrient for crops, in fact it is an activator or a constituent of many enzyme systems, it takes part to the electron carriers chain (photosynthesis) and it is linked to chloroplasts. Copper helps also to strengthen biological defences of the plant under unfavourable conditions such as parasites attacks, deficiencies, extremely humid weather conditions, etc.

Crops showing benefits from copper applications are: corn, Leguminous (string bean, pea, etc.), horticultural crops (garlic, onion, cabbage, lettuce, potato, tomato, sweet pepper, carrot, Cucurbitaceous, etc.), fruit trees and Citrus (in particular when fertilised with excessive dosage of phosphate), grapevine, olive trees, ornamental crops.

## Agrocopper®

is particularly suitable to act as a nutritional source of copper.

Moreover, the presence of amino acids and short chain peptides, besides their well-known bio-stimulating effects, assures penetration, assimilation and transport of copper in the plant tissues. As a consequence, very low dosages of copper can be employed



## Agrocopper®

can be utilised in foliar treatments or in fertigation, mainly at springtime start (all crops) and before fruit ripening (fruit trees) and after the tubers formation has started (potato).

Crops	Foliar treatment at normal volume (1.000 L/ha)	Foliar treatment at low volume (1.000 L/ha)	Fertigation
Fruit crops, grapevine, olive	0.120 kg/100 L water	1.2 kg/ha	2.4 kg/ha
Horticultural crops	0.1 kg/100 L water	1 kg/ha	2 kg/ha
Corn	0.1 kg/100 L water	1.0-1.2 kg/ha	2-2.4 kg/ha



**Agrocopper®** can be mixed with most foliar fertilisers and plant protection products. Do not mix with mineral oils, sulphur or nitro-derivatives (DNOC, Dinocarp), or with more than two different products even if compatible.

- prevents and corrects copper deficiency
- stimulates plant metabolism
- useful on all crops
- uptake by leaves and by roots
- high mobility: acts where plant needs it
- mixable with plant protection products



## Special fertiliser based on Calcium complexed to amino acids and peptides.

Allowed on Organic Farming according to MIPAF circular no. 8 of 13/09/1999

**Naturcal®** is a new formulation for leaf spray and for fertigation, containing Calcium bound to the organic base of the product (amino acids and peptides).



COMPOSITION	(% w/w)
Organic Nitrogen	4%
Soluble Organic Nitrogen	4%
Amino acids and peptides	25%
Organic Carbon of biological origin	13%
Calcium (CaO) soluble in H <sub>2</sub> O	6%

The liquid formulation of **Naturcal®** has a CaO concentration of 6%. Since amino acids stimulate penetration, assimilation and mobility of  $\text{Ca}^{++}$ , low dosages of **Naturcal®** are suggested for all crops, even if they may be very different, depending on environmental conditions, soil characteristics and plant species.

## Special fertilizer based on Iron complexed to amino acids

COMPOSITION	( % w/w )
Iron (Fe) soluble in water	13%
Organic Nitrogen (N)	6.4%
Soluble Organic Nitrogen (N)	6.4%
Aminoacids and peptides	40%
Free aminoacids	12%
Organic Carbon (C) of biologic origin	21%

### Naturfer®

is a powder fertilizer containing iron complexed to a mixture of amino acids .

The amino acids has, low molecular weight chelate that carry the microelement into plant tissues. So the plant does not spend energy in transport of Iron, which is available for uptake and rapidly reach plant organs which show Iron deficiency Unlike synthetic chelates,

**Naturfer®** does not compromise other nutrients uptake nor affects balancesbetween other micronutrients. Furthermore, amino acids act as biostimulators, with well known mechanisms: in particular they promote many enzyme and growth regulators activities, and also they show an effective anti-stress action.Iron concentration in powder formulation of **Naturfer®** is **13 %**, a relatively low content when compared to other similar products. Nevertheless, as amino acids promote iron uptake, assimilation and mobility, it is possible to suggest low dosages for all crops.



## Advantages of Naturfer® use:

- ❑ prevents and corrects iron deficiency
- ❑ stimulates plant metabolism
- ❑ useful on all crops
- ❑ up taken by leaves and by roots
- ❑ high mobility: acts where plant needs it
- ❑ mixable with plant protection

CROP	FOLIAR TREAT. (g /100 L water)	FERTIRRIGAT. (kg/ha)	TREATMENT PERIOD
fruit crops	0.2-0.3	4-6	from vegetative awakening until leaves complete development
industrial crops (tomato, tobacco, sugar beet)	0.2-0.3	4-6	when deficiency symptoms are visible
horticultural crops	0.3-1	0.5-2	





# Robust™

Crop Health  
Products

## Plant Supplement

**Robust™** is a powder product which improves plant health and vigor. The ingredients in **Robust™**, have been shown to reduce the amount of synthetic chemicals needed for maintaining plant root and foliage health.

## More Vigor For The Plants and Natural Resistance to Root Pathogens

The **Robust™** formula stimulates and strengthens plant cell tissues. The ingredients in **Robust™** are utilized by the plant for increasing resistance

and antagonism to invading organisms, including nematodes and soil fungi.

The product increases plant resilience to disease pressure, producing more healthy plants with increased vigor and potential for higher yields.

**Robust™** is available as a powder formula, which can be applied in the furrow

used as a transplant root dip, applied in a drip irrigation system, applied over nursery trays or applied to other plant parts.

**Robust™** powder is to be mixed with water and spray or drench applied or injected through an irrigation system.

**Robust™** is non-toxic to plants, animals and humans. It is non-polluting and safe for the environment.



**PRODUCT DESCRIPTION:** **ROBUST™** consists of natural amino acids derived from plant origins, utilizing fermentation and extraction methods.

**PURPOSE:** The ingredients in **ROBUST™** are utilized by the plant for increasing resistance and antagonism to invading organisms. The product increases plant resilience to disease pressure, producing more healthy plants with increased vigor and potential for higher yields.

**TARGET CROPS:** Vegetable, fruit, vine crops, flowers, bulbs, herbs, spices, greenhouse crops, ornamentals and field crops.

### **DOSAGE PROGRAM – Annual Crops:**

**Seedling Nursery Program:** Apply as a drench over the seeds in the germination tray, using a drench mix formula of 6 grams of **ROBUST™** with one liter of water. Use an estimated 0.5 liters of the drench mix per tray. Apply the drench mix 2 or 3 times during the seedling nursery stage for the target crop.

**Transplant Program:** At the time of transplanting the root plug should be treated with **ROBUST™** as a drench or root dip utilizing a mixture of (or equal to) 6 grams of **ROBUST™** with one liter of water.

**Post-Transplant Program:** Apply **ROBUST™** over and around the root zone as a band immediately over the crop row. The band should be 20 to 50 cm. wide and may be applied by spray machine or injected through a drip irrigation system. Use a dosage of (or equal to) 10 grams / 100 linear meters of row length (assuming 1 m. row width) or simply use 1.0 kg/ha.

**Frequency:** In the event that **ROBUST™** has been applied as a seedling nursery and/or transplant program, then make post-transplant treatments starting approximately 30 days after transplanting and continuing monthly. If **ROBUST™** is NOT utilized at the seedling nursery and/or transplant program, then the recommended post-transplant band application is: start as soon as possible after transplanting and repeat treatment every 30 days.



**DOSAGE PROGRAM – Perennial crops, nurseries, propagation beds, etc.**

**Nursery Program:** Apply as a drench over the seeds in the germination tray or pots, using a drench mix formula of 6 grams of **ROBUST™** with one liter of water. Use an estimated 50 cc of the drench mix per pot. Apply the drench mix 2 to 6 times during the seedling nursery stage for the target crop, depending on the length of time in the nursery.

**Transplant Program:** At the time of transplanting the root plug should be treated with **ROBUST™** as a drench or root dip utilizing a mixture of (or equal to) 6 grams of **ROBUST™** with one liter of water.

**Post-Transplant Program:** Make a post-transplant treatment approximately 30 days after transplanting and continue with 1 or 2 additional applications per year (for established plantations – 2 applications per year). Apply **ROBUST™** around the plant by spray machine or inject through a drip irrigation system as follows:

**By spray machine:** Use a mixture of (or equal to) 4.0 grams of **ROBUST™** with one liter of water and apply 125 to 160 cc of the spray mixture per plant.

**Injected through a drip irrigation system:** Apply 10 grams / 100 linear meters of row length (assuming 1 m. row width) or simply use 1.0 kg/ha.

**APPLICATION TIMING:** Application should be made when soil temperatures are between 10 to 29 C. Excessive exposure to ultraviolet light (sunlight) can interfere with the activity of **ROBUST™**. Allow 48 hours between **ROBUST™** applications and the use of any type of pesticide.

**STORAGE:** **ROBUST™** should be stored in a cool, dark place.







**LITHOVIT®**

Natural CO<sub>2</sub> Foliar Fertilizer – Tribodyni Soil Fertilizer – Made in Germany

**Crop Health  
Products**

is the first CO<sub>2</sub> foliar fertilizer that can be used to achieve an enhanced yield outdoors in the same way as under glass. In addition, **LITHOVIT®** contains numerous trace elements which have a directly beneficial impact on the plant's entire metabolism. Thanks to the combination of these effects, the use of **LITHOVIT®**

enhances the plants' vitality and markedly improves their stress tolerance. A new technology is used in the production of **LITHOVIT®** through which the properties of the natural basic material, limestone, are substantially enhanced for use in agriculture.

**LITHOVIT®** features:

- Improves crop yields, quality and storage properties
- Accelerates growth and intensifying the green coloration
- Increases resistance, growth and vitality
- Increases tolerance of frost, drought and other forms of physiological stress
- Enhances the supply of essential trace elements to the plants
- Reduces the water requirement

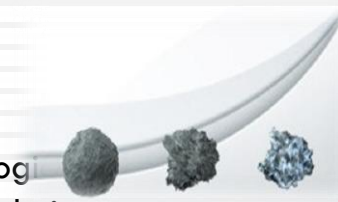
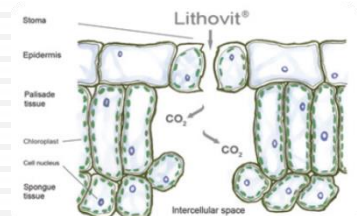
**LITHOVIT®**

CO<sub>2</sub> foliar fertilizer for outdoor use is a new top-quality nanotechnology product created by tribodynamic activation and micronization and made in Germany. Highly energized **LITHOVIT®**

particles, sprayed finely onto the leaf surfaces as a 0.5% suspension in water, are taken up directly through the stomata and converted into carbon dioxide. In this way **LITHOVIT®**

® can considerably increase the photosynthesis rate, since the essential factor limiting photosynthesis outdoors is the natural CO<sub>2</sub> content of the air. This leads to yield increases accompanied by a reduced water requirement, since with **LITHOVIT®**

the plants are able to keep the stomata closed longer and so withstand water stress better. In addition, the micro-nutrients also contained in the product and the trace elements such as manganese, copper, zinc etc., which have an impact on plant physiology, increase the resistance, growth and vitality of the plants and the general quality of the crop.





**LITHOVIT®**

**Crop Health  
Products**

Natural CO<sub>2</sub> Foliar Fertilizer – Tribodyn Soil Fertilizer – Made in Germany

## **LITHOVIT®**

consists 100% of calcium carbonate made from limestone from natural deposits with trace elements, and is easily assimilated. It is approved for use in organic farming pursuant to Council

### **Composition:**

calcium carbonate 83 from natural mineral limestone deposits, with micro-nutrients, easily assailable

79.19% ..... calcium carbonate

11.41% ..... silica

4.62% ..... magnesium carbonate

1.31% ..... iron

0.97% ..... alumina

0.55% ..... sodium oxide

0.33% ..... sulphate

0.21% ..... potassium oxide

0.06% ..... nitrogen

0.01% ..... phosphate

0.014% ..... manganese

0.005% ..... zinc

0.002% ..... copper





**LITHOVIT®**

**Crop Health  
Products**

### The effect of **LITHOVIT®** on the intensity of photosynthesis

Brassicas (cabbage, red cabbage, cauliflower, Chinese leaves, savoy cabbage, mangel-wurzel etc.) 1st application either directly after planting out, or, where plants are grown from seed, at the time of the first tending (approx. 2 to 3 weeks after sowing) 2nd and 3rd applications at intervals of approx. 2 weeks The last application should be not later than around two weeks before harvesting (note: later applications in accordance with the recommendations are not harmful in any way, but the time is too short for them to be properly effective). Each application should be made in a concentration of 0.3 %, representing a quantity of 1.5 kg per hectare (an application of around 500 l) or of up to 3 kg per hectare (an application of around 1,000 l).

#### General notes

As a rule, **LITHOVIT®** can be mixed with any customary plant protection agent or with a combination of these, with the exception of preparations that are applied in the form of an acid solution. We recommend spraying with as high a pressure as possible (from 4 bars upwards) and nozzles with a diameter of around 0.3 mm.

**LITHOVIT®** should be mixed to a slurry with a small quantity of water directly before use, and then poured slowly into the spraying vessels. After being mixed with water, it should be used within six hours.







# ***Bee Health Products***



**Apiguard®**

## Bee Health Products



**Apiguard®** is a natural product specifically designed for use in beehives. It is a sophisticated slow release gel matrix, ensuring correct dosage of the active ingredient *thymol*. **Thymol** is a naturally occurring substance derived from the plant thyme. It has a proven high efficacy against the varroa mite and is also active against both tracheal mite and chalkbrood.

**Apiguard®** is a specially designed and patented slow release gel containing thymol. Apiguard gel, presented in 50gm ready to use aluminium trays, regulates the liberation of thymol within the honeybee colony and provides a much more efficient control of hive pests than was possible before.

**Apiguard®** has no harmful effect on the honeybee colony, neither on brood nor on adults.

**Apiguard®** is extremely easy to use. It is simply a matter of placing the opened tray face upwards in the top of brood frames, preferably centred over the colony. After 10 days examine the tray and if depleted replace with a second tray. If there is product left in the tray after 10 days leave until day 15 and then replace. Leave a second tray in position for a further 10-15 days and treatment has been completed (duration of treatment therefore lasts 20-30 days).

**Apiguard®** is extremely well tolerated by bees and the EC maximum residue limit has been classified as Annex II, "No MRL necessary" due to the low toxicity and hive residue profile.

**Five reasons why you should look forward to Apiguard:**

1. Very easy to apply.
2. High efficiency against three types of hive pest.
3. Natural product.
4. No withdrawal time
5. No risk to users.



Contact Us

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