

**Carpos®**  
Geolife® technology

# Fruit trees and shrubs



 SWISS  
MADE

**Bioma®**



## **A Swiss company with more than 30 years of international presence.**

BIOMA is a company active in the production and marketing of "Chemical free" and "GMO free" solutions for the food industry, oenology, agriculture, environmental bioremediation, zootechnics and animal and human well-being.

Our products optimize all biological processes through indigenous microbiology and make it possible to reach an optimal balance in the targeted biomass. We seek to minimize the environmental impact within each structure.

The purpose of BIOMA solutions is to optimize production while guaranteeing economic sustainability.



GMO-free



Chemical-free



Risk-free

## **Geolife® technology** **An innovative manufacturing and patented process.**

Geolife® is a technology for the extraction and stabilization of organic compounds allowing the activation of our products. This technology makes our products unique, easy to use and safe for the user, animals and the environment.

# Carpos®

## Bioactivation program for field crops

The Carpos® program is used once a year and is integrated into each cultivation system, balancing the soil's indigenous microbiology and using the full potential of the plant.

### OBJECTIFS

On  
soils



#### Making nutrients available

- Reviving the nitrification process: proper transformation of ammonium into nitric nitrogen
- Solubilizing and mobilizing nutrients into plant-usable organic forms
- Allowing the terroir to fully express its natural potential

#### Activating proper microbiology

- Rapidly catalysing the desired microbiology naturally present in the soil
- Activating the plants bioprotective functions and promoting good soil-plant interactions

#### Foster soil structuration

- Restarting the humification-mineralization processes: transformation of organic matter
- Improving the colloidal structure and increasing the retention of bioavailable nutrients

On the  
plant



#### Restore soil-plant balance

- Revitalizing conductive tissues after a stress
- Strengthening the photosynthesis activity
- Helping root regeneration
- Strengthens the immune system

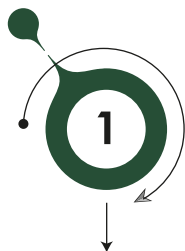


The Carpos® kit for 1 hectare consists of 2 solutions to be applied on the soil and 2 solutions to be applied in foliar form

## Soil applications

### Carpos® Humificant

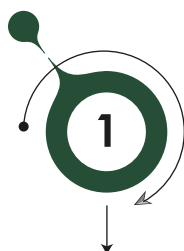
1 solution of 3,25 kg  
per hectare



Catalyses the first reactions in the soil  
and awakens indigenous microbiology

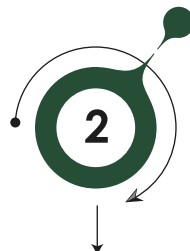
### Gallygon®

1 Kit of 600 gr  
per hectare



### Carpos® Booster Fertilizer

10 litres per hectare



Accelerates the development of  
indigenous microbiology, balances  
soil biology and increases nutrient  
bioavailability

## How to apply?



**Water volume:** 300 - 600 litres/ha

**Max. pression:** 5 bar

Application on the floor

## When to apply?

during the stages:

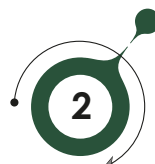


### Carpos® Humificant

### Carpos® Booster Fertilizer



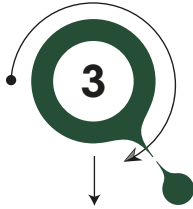
18 to 20  
days  
after



# Foliar applications

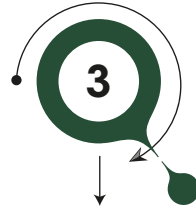
## Fylo® Leaf Treatment

1 litre per hectare



## Fylo® Leaf Treatment

1 litre per hectare



Enhances photosynthesis and optimizes soil-to-soil and leaf-to-soil lymphatic exchanges.  
Helps root regeneration.

One pack is included in Carpos® program. Others can be purchased separately as needed.

## How to apply?



**Water volume:** 150/200 litres/ha  
Foliar application alone or combined with a biological treatment

## When to apply?

Contact your technician for more details.

At 4th-5th extended leaf stage for annual plants. During pre-flowering for perennial plants



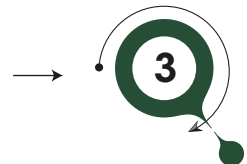
### Fylo® Leaf Treatment 1



Applicable at any phenological stage to reduce damages caused by stress like freezing, hailstorm, burns



### Fylo® Leaf Treatment 2



# Our results:

## Olive production, Spain, Italy - 2012

Olive cultivars	Product	Average weight (gr)	Number of fruits per kg	Yield (€/ha)	Productivity increase with Carpos®
<b>Gordal</b>	Control	6.10	164	7'661.80	<b>+5.94%</b>
	with Carpos®	7.04	142	8116.50	
<b>Manzanilla</b>	Control	3.84	260	7'069.45	<b>+7.32%</b>
	with Carpos®	4.05	247	6'587.08	

- +6.63% average increase in productivity
- +10% average increase in weight and size
- More homogeneity of fruits, with an increase in Premium Quality share and a decrease in waste and losses share

**without Carpos®**



**with Carpos®**



Both pictures  
were taken on  
11th November 2012

## Processing and conservation:

Composition of the Carpos® kit for one hectare:

- a) 1 Carpos® Humificant - 3,25 kg
- b) 1 Gallygon® - 0,6 kg
- c) 1 Carpos® Booster Fertilizer - 10 litres
- d) 2 Fylo® Leaf Treatment - 1 litre

Closed packaging, can be stored for 2 years in a dry and dark room between 10°C and 43°C. Opened packaging, can be stored for 3 months at room temperature and in a dark place (if properly closed and protected from humidity).

## Composition:

### Carpos® Humificant

Specific purpose product

Mycorrhizal fungi inoculum Mycorrhizae

content: 5% of weight, rhizosphere

bacteria content:  $1 \times 10^{10}$  UFC/g,

Trichoderma content:  $1 \times 10^9$  UFC/g

### Gallygon®

Specific purpose product

Mycorrhizal fungi inoculum Mycorrhizae

content: 17% of weight, rhizosphere

bacteria content:  $1 \times 10^{10}$  UFC/g,

Trichoderma content:  $1 \times 10^9$  UFC/g

### Carpos® Booster Fertilizer

Fluid yeast extract containing brown algae: organic nitrogen (N) (18.70%), organic carbon (C) of biological origin (28.30%), pH 4.94, organic substance, molecular weight <50 kDa (30%)

### Fylo® Leaf Treatment

Fluid yeast extract containing brown algae: organic nitrogen (N) (32.30%), organic carbon (C) of biological origin (41.60%), pH 4.37, organic substance, molecular weight <50 kDa (35%)

## Classification and labelling:

Chemicals are classified according to their level of physical, health and environmental hazard. These hazards are indicated by specific labels and safety data sheets (SDS). With the GHS (Globally Harmonized System), hazard statements have been worldwide standardized so that the recipients of the information (production workers, first aiders and consumers) can better understand the hazards of the chemicals used. In the EU, the principles of the GHS are ratified in the EU-1272/2008 (CLP) regulation.

In accordance with this regulation, the Carpos® range does not require classification or labelling according to its physicochemical properties, its effects on the health and safety of the environment and does not require a safety data sheet.

The Carpos® range includes only organisms that are naturally present in nature and non-hazardous (WHO Class 1).

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## Compliance:

All products in the Carpos® programme are included in the SIAN register of fertilizers suitable for use in organic farming.

- Carpos® Humificant: registration n° 0020530/17
- Carpos® Booster Fertilizer: registration n° 0019834/17
- Gallygon®: registration n° 0019633/17
- Fylo® Leaf Treatment: registration n° 009637/17



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