



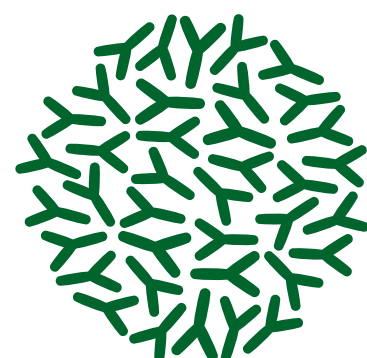
PHYTOBIOTICS



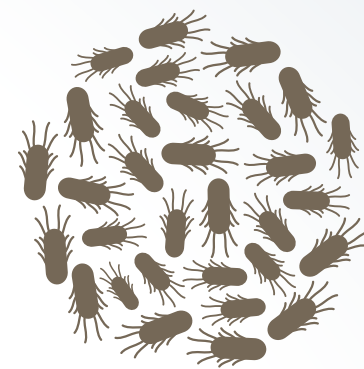
# PHYTOBIOTICS Protection without residues



Basic substances



Botanical substances



Microorganisms



### Basic substances

These products are a natural substances that are suitable to phytosanitary applications. Are approved according to the EU regulation 563/2014.

### Botanical substances

Phytofortificant substances that strengthen and support the crops giving them resistance to pathogens attack.

### Microorganisms (Biological control products from saprobes fungi).

The solutions are free from residue to protect the crops, without applying the chemical materials. MAFA is now working on developing a several products using the raw material based on biological substances, from different strain of the saprobic fungi.

### Biopesticides highly tecnified

Natural phytosanitary solutions based on botanical substances, microorganisms and minerals.



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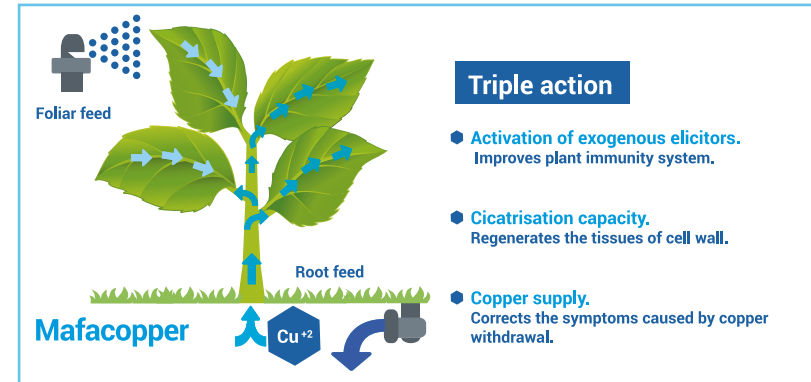


## Mafacopper®

**Systemic copper triple action.**  
100 % complexed by the complexing agent Gluconic Acid.

Mafacopper acts as a potent plant protector against different diseases developed at high humidity and moderate temperatures or caused by bacteria (e.g. anthracnose, bark disease, sooty mold, gummosis or foot rot, grease stain, melanosis, scabies, etc.).

It contains an acid organic complex which avoids possible phytotoxicity. Unlike other copper gluconates in the market, these can be mixed with a wide range of products.

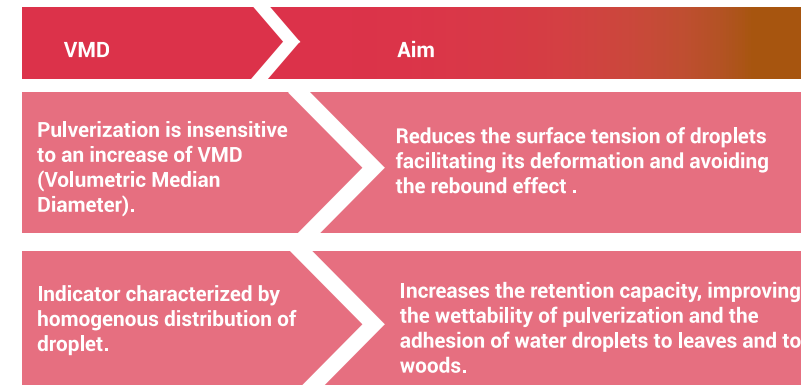


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## Citromazinc®

**Citric extracts enriched in Mn and Zn.**  
Fertilizer with tensioactive action.

Citromazinc is a formulation based on vegetable extracts from essential citric oil (with high presence of terpenes) and enriched in manganese and zinc. It is a biodegradable product, which acts improving the adherence and retention capacity of the spray droplets. As a result, a better interaction between phytosanitary or nutritional molecules with the cuticle foliar is achieved.



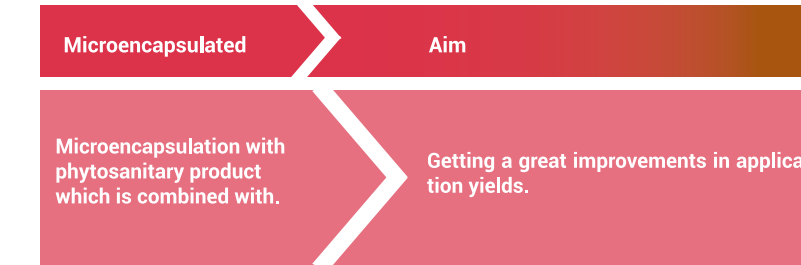
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## Synerol®

**Mixture of emulsified vegetable oleins.** Fertilizer with tensioactive, moisturizing and penetrating action.

Synerol is a formulation based on 100% vegetable, natural and biodegradable extracts enriched with potassium. It has a powerful surfactant, moisturizing and penetrating effect that improves the efficacy of phytosanitary treatments. It increases the wettability and reduces runoff.

Improves recovering and retention of microdrops over plants surface, increases the adherence to leaves, woods and fruits reducing the washing effects produced by meteorological agents such as rain, dew and wind.



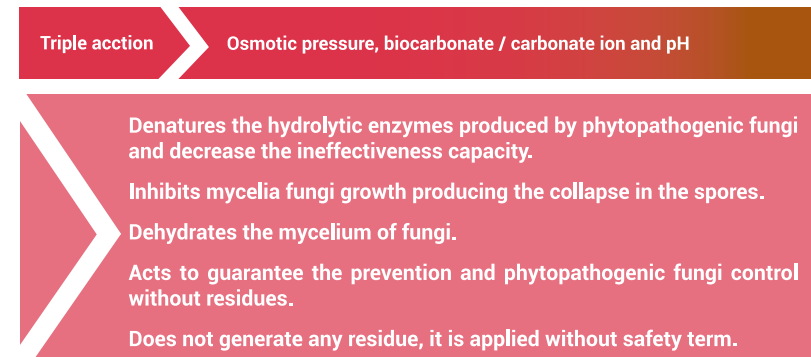
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## Biocarb®

**Emulsion based on carbonate potassium salts.**  
Protects against fungal diseases.

Biocarb is a formulation based on biologically active organic acids that reinforce the capacity of defence and protection against powdery mildew, mildew, moulting and botrytis.

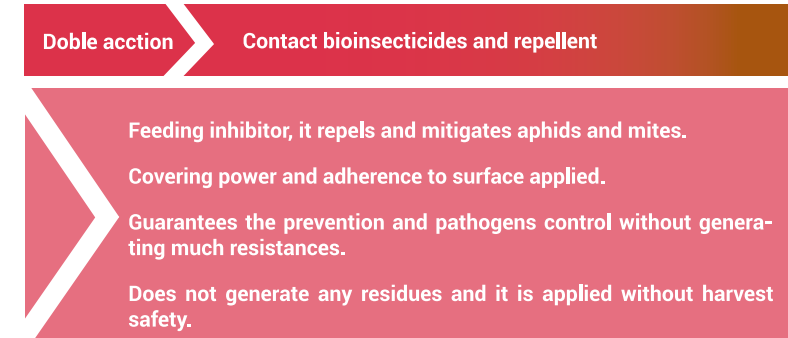
Its natural and biodegradable composition strongly reinforces plant self-defence, offering more resistance against pathogens. This fertilizer is applied by feeding foliar that has a tensioactive action that maintains and enhances the stability in the cuticle. It is also compatible with the auxiliary fauna and included in biological control programmes.



## Indico®

**Vegetable extracts of Margosa.** Disruptive and repellent action mitigating attacks of mites and aphids.

Indico is a formulation based on vegetable extracts of legumes and essential oils obtained from plants. It acts as an anti-food repellent and is fully compatible with the auxiliary fauna (Nesidiocoris tenuis, Amblyseius swirskii, Orius laevigatus) which provides total compatibility with biological warfare programs. It can replace the use of conventional synthetic insecticides that avoid or mitigate the attack of mites and aphids on various crops, among which we highlight horticultural, fruit and citrus. It does not show phytotoxicity at higher doses than recommended.



## Oleo-Soap K®

**Potassium soap based on saponified fatty acids.** It cleans the remains and molasses of fungi and insects.

Oleo-Soap k is a liquid potassium soap obtained by saponification of fatty acids from plant origin. It performs a role in mitigation or cleaning of dirt remains caused by molasses secreted by insects and fungi, insect moulting, fruit stains, etc. The decomposition of the formulation generates carbonate which acts as a fertilizer and a nutritional element.

