

# TRIONEM S

*Bioactivate for depleted soils*



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# TRIONEM S

Bioactivate for depleted soils

**Foam** Agriges exclusive production technology

**Bio** Admitted in Organic Farming

**microz@zymtrio** Agriges exclusive production technology

**Soil application**

## DESCRIPTION

The problem of “depleted” soils is becoming increasingly serious in specialized fruit- and vegetable-growing areas. It is particularly linked to the general decline in soil fertility, as well as the reduction of telluric microbial complex composition, excessive mineral fertilizers/processing and use of chemical methods for soil disinfection.

**TRIONEM S** is a revitalizing base fertilizer designed specifically to increase the long-term fertility of depleted soils, enriching them with beneficial heat-resistant bacterial strains.

## OBJECTIVE

- ☑ Restore soil fertility;
- ☑ Re-balance the telluric microbial component;
- ☑ Evenly nourish plants.

## Brassicaceae, Meliaceae and Liliaceae oilcakes

TRIONEM S is characterized by a humus-rich organic substance of vegetable and animal origin, and, in particular, for the three types of oilcakes of selected plant species:

- **Brassicaceae;**
- **Meliaceae;**
- **Liliaceae.**

Hence the prefix TRIO in the product name.

These oilcakes provide a balanced content of humus-rich organic substance, which is fundamental to increase the long-term fertility of depleted soils.

## HEAT-RESISTANT bacterial strains

**microz@zymtrio**

TRIONEM S performs its best activity against the deleterious symptoms of soil depletion, thanks to the following bacterial strains:

- **Thermoactinomyces spp.;**
- **Streptomyces spp.;**
- **Bacillus spp.,**

obtained through the exclusive *Microzym Trio* production technology. They guarantee the high and constant effectiveness of TRIONEM S by mineralizing pellets and releasing precious essences from the oilcakes.

## Greater efficacy against SOIL DEPLETION

**Foam** technology

Foamtechnology extracts substances from the oilcakes of the Meliaceae family, such as:

- **Saponins, Tannins, Steroid glycosides, Triterpenoids and Alkaloids,**

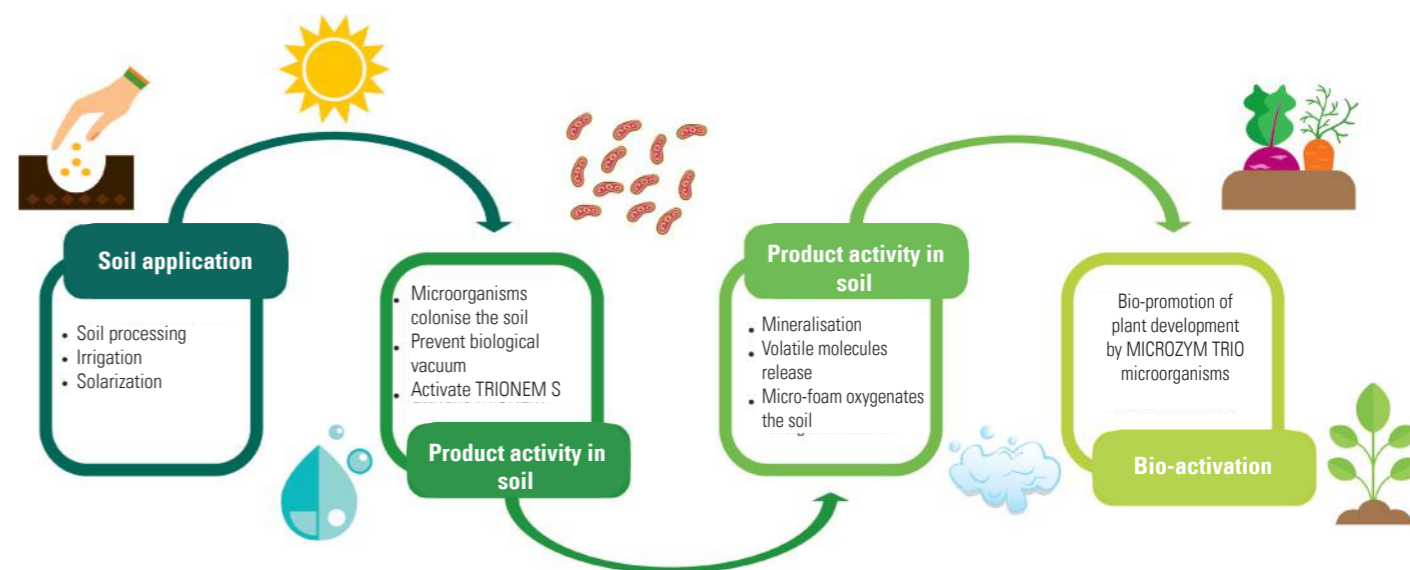
which, in contact with water, generate a micro-foam that oxygenates the soil, acting as a “root-cleaner”



The image depicts at the microscopic level what happens in the soil when pure Foamtechnology raw materials are used.

**Packaging:** 25 kg / bags - **Formulation:** low-moisture pellet - **Pellet diameter:** 3,5 cm.

## MODE OF ACTION



- ☑ The selected bacterial strains trigger complex enzymatic hydrolysis mechanisms that occur rapidly within each individual pellet. This leads to a localised increase in soil temperature, where the pellet itself acts as a “hot spot”;
- ☑ The mineralisation of the TRIONEM S oilcakes releases important organic compounds in the soil volume, improving plant life functions. The humus-rich organic substance improves soil fertility and its chemical and physical properties, also providing nourishment for the beneficial microorganisms of MICROZYM TRIO. Furthermore, it acts as a sponge for water and nutrients, which it gradually releases depending upon discrete plant needs.
- ☑ The microbial intake rapidly colonises the soil, occupying it permanently. These strains are also able to rapidly colonise the roots and act as Plant Growth Promoting Rhizobacteria (PGPR), thus stimulating plant growth. The message exchange between PGPR and plant also results in an increased endogenous capacity of the crop to withstand possible pathogenic attacks.
- ☑ In contact with water, Foamtechnology generates a micro-foam that oxygenates the soil, making it more hospitable for plants and their roots. This micro-foam simultaneously creates an inhospitable environment for any agents that can harm root systems, thus acting as root-cleaner.

## TRIONEM S GREEN SPECIAL

### HIGH PERCENTAGE OF OILCAKES ACTIVATED WITH MICROZYM TRIO AND FOAMTECHNOLOGY

One-step remedial and nourishing action, ideal for preventing or fighting issues related to soil depletion. .

Organic Nitrogen (N)	3,0 %	Total Sulphur trioxide (SO <sub>2</sub> )	20,0 %
Total phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> )	3,0 %	Organic Carbon (C)	21,0 %
Total Calcium oxide (CaO)	8,0 %		

**Components:** protein hydrolysates with variable mineralization, humified mixture of manure (cattle and chicken manure), plant cakes of *Brassicaceae*, *Meliaceae* and *Liliaceae*, sulphate, elemental Sulfur. The product is bioactivated with **Microzym Trio** technology. Product enriched with 5% elemental Sulfur which brings a total SO<sub>2</sub> contribution of 12%.

### DOSES AND METHODS OF USE

Crops	Soil application	Dose kg/ha
Fruit trees	Before planting on the entire surface	2000-2500
Horticultural crops in greenhouse	Before sowing/transplantation on refined and dry soil	2000-3000
Horticultural crops in full field	Before sowing/transplantation on refined and dry soil	2000-2500

### APPLICATION NOTES

TRIONEM S carries out its activity to the best applied before soil solarization, on refined and dry soils. **After distribution, bury the product and water abundantly in order to activate the fertilizer.** Cover the land with plastic film and proceed to normal solarization practice. The presence of the plastic film prolongs the action of the volatile molecules released by TRIONEM S. Wait 5-7 days before sowing/transplanting/installation. In case of application of TRIONEM S in combination with the products of the REM and/or TRI-START Line, first apply TRIONEM S, wait 5-7 days, then proceed with the application of the formulations of the REM and/or TRI-START Lines. The product is compatible with REM/TRI-START intervention strategies.

### WARNINGS

The product must be buried, avoiding direct contact with the fertilized plants. Store in cool, dry place and keep away from excessive heat. For optimal use of the product, review the fertilization plans. **TRIONEM S has no plant protection properties, and its use is compatible in association with traditional fungicide/nematocide/ phytoiatric treatments in general.**

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