

# RYCYNEEM S

*bioactivated for tired soils*



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## RYCYNEEM S bioactivated for tired soils

RYCYNEEM, made unique by the exclusive MICROZYM TRIO production technology, is a soils improver made by selected microbial consortia that improves the livability of agricultural soils. RYCYNEEM thanks to MICROZYM TRIO operates an increase in the soil temperature affected by pellet mineralization and an subsequent enrichment in useful microorganisms. The action is closely related to its bacterial strains: *Thermoactinomyces spp.*, *Streptomyces spp.* and *Bacillus spp.*, all thermo-resistant and capable of enzymatically attacking the valuable vegetable raw materials present in the product. The peculiarity of RYCYNEEM is related to the fact that its numerous microbial strains have been selected right from the brassicaceae cakes that the product contains. This feature gives the RYCYNEEM microorganisms the ability to mineralize the vegetal component of the product. The ultimate result is a more effective contrast against soil sickness.



### Goal

**BLOCKING "SOIL TIREDNESS" NATURALLY AND EFFECTIVELY, COUNTERBALANCING SOIL MICROBIAL COMPONENT AND NOURISHING THE PLANT WITH HARMONY**

#### Counteracting soil sickness through 3 actions:

- ☑ The selected bacterial strains trigger complex enzymatic and oxidation hydrolysis processes that occur quickly within each individual pellet. The sequence of reactions initiated by the microbial complex results in a localized increase in soil temperature, where pellet itself acts as a "Hot spot";
- ☑ The mineralization of RYCYNEEMS' vegetal cakes, rich in important organic compounds, releases high concentrations in molecules that spread throughout the volume of soil above it and improve its viability to the plant;
- ☑ Rapid colonization of the pellets and the portion of the surrounding soil by a stable and self-supporting microbial consortium consisting of the strains inoculated with RYCYNEEM S. These strains are also capable of rapidly colonizing the roots and behaving like Plant Growth Promoting Rhizobacteria, activating plant growth. The exchange of messages between PGPR and plant also translates into an increased endogenous ability of the latter to withstand any pathogenic attacks (phytopathogenic fungi and nematodes).

#### Nourishing the plant

RYCYNEEM contains protein hydrolysates with variable mineralization rate that gradually releases nutrients of which the matrices of animal and vegetable origin are intrinsically rich, micro and meso elements such as calcium and **m micronized elemental sulfur**. In particular, Sulfur is the corrective par excellence of alkaline soils as, once distributed in the soil, it undergoes biochemical transformations, helping to rebalance the pH of the soil and improve its chemical and physical properties.

#### Increasing soil fertility

The organic matter with a high rate of humification, stable, and with an optimal C/N ratio. It nourishes the useful soil microbial population, it retains water and nutrients that it releases gradually and in the light of specific plant requirements. Increase in a durable way soil fertility.

## RYCYNEEM S GREEN

### HIGH PERCENTAGE IN VEGETAL CAKES ACTIVATED WITH MICROZYM TRIO

SOIL IMPROVING AND NUTRITIVE ACTION IDEAL TO PREVENT OR CONTRAST PROBLEMS OF SOIL SICKNESS

Organic Nitrogen (N)	3,0%	Total Sulphur trioxide (SO <sub>3</sub> )	20,0%
Total Phosphoric anhydride (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*, calcium sulphate, elemental Sulfur. The product is bioactivated with **Microzym Trio** technology. Product enriched with 5% elemental Sulfur which contributes a total SO<sub>3</sub> contribution of 12%.

## Doses and administration

Crops	Soil application	Dose kg/ha
Fruit trees	Before planting on the entire surface	2000-2500
Greenhouse crop	Before sowing/transplantation on refined and dry soil	2000-3000
Field vegetable	Before sowing/transplantation on refined and dry soil	2000-2500

**Package size:** kg 25 / bag; **Formulation:** pellet with low degree of humidity.

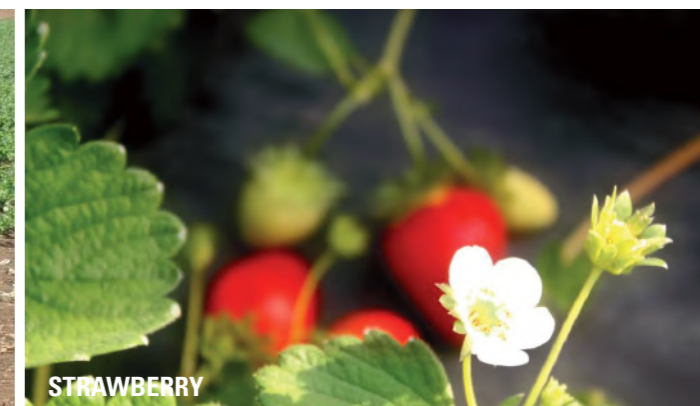


Suitable for Organic agriculture



Soil application

## Field results



### APPLICATION NOTES

RYCYNEEM S carries out its activity best when applied prior to 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 plastic film extends the action of the volatile molecules released by RYCYNEEM S. Wait 5 to 7 days before sowing/transplanting/planting. In case of application of the products of the RYCYNEEM S GREEN in combination with the products of the REM and TRI-START Line, apply RYCYNEEM S GREEN first, wait 5 to 7 days and then proceed with the application of the formulations of the REM and TRI-START Lines. Following the application of RYCYNEEM S GREEN + MICROZYM TRIO we recommend, whenever possible, to cover it with a tarpaulin so as to prolong the action of the volatile molecules released by RYCYNEEM S GREEN. The product is compatible with REM / TRI-START intervention strategies.

### WARNINGS

**Harmful if swallowed both for men and for animals.** Any animals must be kept away from treated areas for at least 4/5 days. After distribution bury the product immediately. Store product in original container tightly closed and labeled, in a cool dry and ventilated place, away from direct sunlight and sources of heat. **RYCYNEEM S does not have characteristics of crop protection products and their use can be made in combination with conventional fungicidal/nematocidal/phytoiatric treatments in general.**

Ed. 0 - Rev. 0\_10.05.2021