

**- Specification Sheet -**

## BIONEM

**BIONEM** is a liquid soil amendment containing beneficial soil microorganisms which aid in the breakdown of the organic matter and the creation of optimal soil conditions for the growth of a healthy root system. In parallel, the liquid substrate of **BIONEM** contains various substances (polysaccharides, oligosaccharides, amino acids, micronutrients and macronutrients) which improve the physicochemical properties of the soil, increase its fertility and accomplish high yield crops.

### PROPERTIES AND USES:

- Increases the beneficial microbes of the soil.
- Enhances the action of the beneficial microorganisms that already exist in the soil.
- Improves the natural soil structure.
- Increases the capacity of water retention by the plants.
- Increases the cation exchange capacity.
- Allows a better aeration of the soil.
- Eliminates the establishment and the proliferation of the soil pathogens on the root system.
- Improves the resistance of the plant against biotic and abiotic stress factors.
- Is an ecological formulation that does not unsettle the ecosystem's balance and does not pollute the environment.
- It does not contain pathogens since it is being manufactured under sterile conditions.

### APPLICATION:

**BIONEM** can be drenched around the root zone but it has to be incorporated in the soil either mechanically (by hoeing) or by watering the plants right after the application. **BIONEM** can also be applied through the irrigation/sprayer.

Application Rate: Generally it is applied at the following application rate.

*Soil application:* 5 l/ha.

*Mixing with manure:* 5 l/ha mixed with 500 kg of manure.

### STANDARD ANALYSIS

(w/w)

Manganese (Mn) 0.1%

Beneficial microbial population:  $>1 \times 10^{12}$  cfu/ml

### PHYSICAL PROPERTIES:

Appearance: Fine colorless-yellowish fluid

Density: 1.01 g/ml

Solubility: 100% water soluble  
pH: 7.1