MIXTURE of CLINOPTILOLITE ZEOLITE and PUMICE - SP20

Product allowed in organic farming

PRODUCT TRADE NAME

MIXTURE OF NATURAL ZEOLITE CLINOPTILOLITE AND PUMICE - SP20

MIXTURE OF STONE OR ROCK POWDERS BASED ON NATURAL ZEOLITE, CLINOPTILOLITE, AND PUMICE

COMPOSITION

MIXTURE obtained by grinding rocks consisting of NATURAL ZEOLITE CLINOPTILOLITE, and PUMICE in their natural state, followed by drying.

COMPOSITION IN ORDER OF % WEIGHT OF COMPONENTS (AVERAGE)

- Natural Zeolite Clinoptilolite: approx 65% - Pumice: approx 35%

CORROBORANT

- PLANT DEFENCE BOOSTER
- NATURAL ORIGIN SUBSTANCE THAT ENHANCES PLANT RESISTANCE TO BIOTIC AND ABIOTIC STRESSES

It is a natural volcanic **mineral** with a high and selective cation-exchange capacity.

IDEAL FOR:

- Treatment of leaves for the protection against insects and pathogens
- Neutralization of harmful elements, ammonium, heavy metals and organic molecules
- Absorption of odorous gases, ammonia, hydrogen sulphide, mercaptans
- Improving the use efficiency of fertilizers by reducing their quantity
- Carry the inoculum of mycorrhizal fungi, rhizosphere bacteria that promote plant growth and autochthonous saprophytic fungi

PHYSICAL AND CHEMICAL PROPERTIES

Pumice

AVERAGE CHEMICAL ANALYSIS On an average sample representative f quarry fronts	
SiO_2	55,0 - 61,0 %
Al_2O_3	17,0 - 19,0 %
K_2O	7,0 - 9,0 %
Fe_2O_3	3,0 - 5,0 %
CaO	2,0 - 5,0 %
Na_2O	1,5 - 3,5 %
TiO_2	0,3 - 0,7 %
MgO	0,7 - 2,1 %
P_2O_5	0,1 - 0,2 %
MnO	0,1 - 0,2 %
P.F.	2,5 - 6,0 %
pH	7-8

- Grain size: 0-20 µm
- Apparent specific weight: ca. 800-900 kg/m^3
- Total cation-exchange capacity C.E.C.): approx 30 mEq/100 gr
- It contains no Free Crystalline Silica

Natural Zeolite Clinoptilolite

AVERAGE CHEMICAL ANALYSIS On an average sample representative of quarry fronts	
SiO_2	61,0 - 67,0 %
Al_2O_3	10,0 - 13,9 %
Fe_2O_3	2,0 - 2,8 %
CaO	2,0 - 3,0 %
Na_2O	0,5 - 1,9 %
MgO	1,2 - 1,4 %
K_2O	1,38 - 1,84 %
pH	7-8

- Grain size: 0-20 µm
- Total Zeolite content: approx 85-90% (Clinoptilolite)
- Apparent specific weight: approx 850 kg/m^3
- Total cation-exchange capacity (C.E.C.): 190-210 mEq/100gr (Ca 67, Mg 50, Na 12, K 15)
- It contains no Free Crystalline Silica

AGRONOMIC FUNCTION AND MODE OF ACTION:

Thanks to the specific structure of natural Zeolite Clinoptilolite and of Pumice and to its capacity to absorb excess moisture, with simple applications on the leaves it is possible:

- to create a real barrier against phytophagous insects with a piercing and sucking apparatus
- to effectively prevent attacks by and development of fungal pathogens
- to obtain a healing effect on the lesions caused by hail and parasite action
- to increase resistance to the burning action of the sun, UV rays, sudden changes in temperature, high temperatures

RECOMMENDED DOSAGE AND METHOD OF USE

Liquid treatment:

Vine - Olive

Dosage: 300-400 g/hl (Kg 3-4/ha). When: after plant revival, every 7-15 days depending on rain and/or moisture. On bunches and fruits, until the start of the veraison period, 2-3 treatments in order to improve mechanical resistance of bunches and fruits.

Fruit trees

Dosage: 300-400 g/hl (Kg 3-4/ha). When: from post-blossoming to fruit growing period, every 7-15 days depending on rain and/or moisture.

Actinidia - Citrus fruits

Dosage: 300-400 g/hl (Kg 3-4/ha). When: after plant revival, every 7-15 days depending on rain and/or moisture. On fruits, until the start of the veraison period, 2-3 treatments in order to improve mechanical resistance of bunches and fruits.

Fruit plants

Dosage: 300-400 g/hl (Kg 3-4/ha). When: from post-blossoming to fruit growing period, every 7-15 days depending on rain and/or moisture.

Leafy vegetables and aromatic plants

Dosage: 300-400 g/hl (Kg 3-4/ha). When: once every 7 – 10 days

PRECAUTIONS AND WARNINGS

SP20 is a mixture of stone or rock powders.

It contains no Free Crystalline Silica.

The fineness of the particles, which is fundamental to the product's effectiveness, requires the use of appropriate personal protective equipment to prevent inhalation.

Product allowed in organic farming

STORAGE: store the product in a sheltered and dry place.

AVAILABLE IN 1-ton BIG-BAGS and in 10 kg BAGS.

This product is a natural raw material. All data indicated above are average production values and do not provide any warranty.