

Nitrogen - Copper Fertilizer

Dia-CU

4 - 0 - 0 + 10Cu



Dia-CU is a water soluble fertilizer which provides organic nitrogen, amino-acids and copper in chelated form. Thanks to its composition, **Dia-CU** is easily absorbed by the leaves tissues and is infiltrated into the plant, achieving a fast correction of copper and nitrogen deficiencies and the stimulation of cellular functions. Simultaneously, high copper concentration contributes to the growth suspension of bacteria and fungi.

PROPERTIES

- It corrects fast and efficiently copper and nitrogen deficiencies
- It increases the vigor and the resistance of plants against various environmental and biotic factors.
- It stimulates the growth of the plant
- It contributes to the enhancement of cellular functions inside the plant.
- It improves the productivity of the plants.
- It improves the qualitative characteristics of the harvest.

COMPOSITION (%w/w)

Copper (Cu)..... 10,0

Nitrogen (N)..... 4,0

Organic N.....4,0

Aminoacids.....28,0



Copper consists a structural component of many plant oxidation-reduction enzymes. Moreover, it acts as an enzyme activator and as a catalyst of photosynthesis and plants respiration, while it is essential for the metabolism of carbohydrates and proteins, for the biosynthesis of phenols and for the formation of lignin of cellular walls, which strengthens cells structure. Moreover, it influences the flavour, the content in sugars and the duration of shelf-life of the fruits.

Chelated Copper enters easily into both leaves and roots, due to the organic chelating factor. There it is released from the chelated complex in order to be used by the plant. As a result, chelated Copper remains readily available to the plant for a long time.

Amino-acids are the organic molecules which consist the basic structural units of proteins. As a consequence, the growth and the execution of biological functions is impossible without them. Inside plants, amino-acids are the raw material for the biosynthesis of chlorophyll, which is indispensable for the photosynthesis and the production of energy and carbohydrates. Many growth and fruiting biostimulants are proteinic molecules, while the biosynthesis of molecules related to plant's resistance to abiotic stresses is induced by derivatives of amino-acids. In addition, amino-acids are absorbed directly by leaves and roots and, since they chelate most metals, they contribute to their absorption by plants too.





APPLICATION METHODS

Dia-CU is recommended for foliar spraying and ground applications via fertilization-irrigation system.

NUMBER - PERIOD OF APPLICATIONS

The number of applications is determined to a great extent by the appearance and intensity of the occurring Copper deficiency. Applications start when the first deficiency symptoms appear and they are continued until symptoms are eliminated.

Dia-CU can also be applied in order to improve the vigor of plants and their resistance against stress from environmental and biological factors. In this case the applications start at the beginning of growth period and they are repeated every 15-30 days until harvest.



CULTURES

Dia-CU is recommended for:

- vegetables
- horticultural crops (open field and greenhouse)
- strawberry
- vines
- fruit crops
- citrus
- cereals
- cotton
- corn
- ornamental plants (bushes, trees)



DOSAGE

Foliar spraying: 30-125 g per 100 liters of water

Fertigation: 3-6 kg/hectare

Hydroponics: 300-600 g/500 liters of water

Note: At initial culture stages it is recommended to apply the product at minimal dosage

COMBATIBILITY

Dia-CU can be combined with almost all fertilizers and chemical products. Do not combine it with products which contain beneficial microorganisms (bacteria, fungi). All water-soluble powders can be mixed with **Dia-CU** after pre-dilution.

Produced by

HUMOFERT



1 Ermou & Theotokopoulou str., 14452 Metamorphosis, Greece
Tel. +30 210 284 5891, Fax. +30 210 281 7971
E-mail: info@humofert.gr, Web Site: www.humofert.gr