



SICALNIT+MAG+ZINC nr. 2 Horticultural grade,

13.2% N + 16.4% CaO + 5.9% MgO + 0.18% Zn + 0.022% Cu (w/w)

Calcium Nitrate + Magnesium Nitrate with Zinc- and Copper-IDHA

(in blue flakes) Rapid and complete dissolution in water.

- Made in E.Ū. -

11/2023

1. INTRODUCTION

SICALNIT+MAG+ZINC nr. 2 Horticultural grade is a speciality fertiliser with high concentrations of nitrogen (N; 13.2%), calcium (CaO; 16.4%), magnesium (MgO; 5.9%), zinc (Zn; 0.18%) and copper (Cu; 0.022%). Both zinc and copper in the product are chelated with biodegradable **IDHA** chelating agent. Owing to a patented production process, SICALNIT+MAG+ZINC nr. 2 Horticultural grade is characterised by several unique properties. The solubility of the product is 2.3kg/l at 20°C and the product's rapid and complete dissolution in water makes the nutrients quickly available to plants. The fertiliser is formulated as fully water-soluble, free-flowing flakes without any impurities. As a result of relatively low hygroscopicity, there is no risk of caking. SICALNIT+MAG+ZINC nr. 2 Horticultural grade is an effective source of calcium, magnesium, zinc, copper and nitrate-nitrogen. The product is mainly recommended for foliar application, hydroponics and fertigation.

2. PRODUCT SPECIFICATIONS

<u>Chemical formula</u> : 5(Ca(NO₃)₂).(NH₄NO₃).10(H₂O) + Mg(NO₃)2.6H₂O + Zn-IDHA+ Cu-IDHA

CHEMICAL COMPOSITION

Nutrient	content (% w/w)		
Total nitrogen	(N)	13.2 %	± 0.3% w/w
Nitric nitrogen	(N-NO3)	12.8 %	± 0.3% w/w
Ammmoniacal nitrogen	$(N-NH_4)$	0.4 %	\pm 0.1% w/w
Calcium oxide	(CaO)	16.4 %	± 0.5% w/w
Magnesium oxide	(MgO)	5.9 %	± 0.3% w/w
Copper	(Cu)	0.02 % chelated by IDHA \pm 0.004% w/w	
Zinc	(Zn)	0.18 % chelated by IDHA \pm 0.03% w/w	



HEAVY METALS

Arsenic (As) < 2 mg/kg - Chrome (Cr) < 2 mg/kg - Mercury (Hg) < 0.01 mg/kg

3. SICALNIT+MAG+ZINC nr. 2

a) <u>CHARACTERISTICS & PRODUCT INFO</u>: SICALNIT+MAG+ZINC nr. 2 Horticultural grade ensures quick and effective fertilisation of plants with macro-, secondary- and micro-nutrients. Nitrogen is the main building block of proteins; it therefore plays a crucial role in plants' vegetative growth and impacts yield productivity.

The **<u>nitrate</u>** (NO₃⁻) form of nitrogen in this product ensures its fast uptake by plants, resulting in quick deficiency correction. **<u>Calcium</u>** is a structural component of cell walls. Its deficiency reduces the mechanical strength of plants and their resistance to pests and diseases, especially at the post-harvest stage.

Magnesium is a central component of the chlorophyll molecule; it is therefore essential for optimal photosynthesis. It also enhances the catalytic activity of many enzymes by establishing a precise geometry between the enzyme and its substrate. **Zinc** is present in a large variety of enzymes and contributes to maintaining their structural stability. It is involved in a number of important functions in DNA and RNA metabolism, cell division and protein synthesis. It is crucial in the metabolism of the auxin indole-acetic acid (IAA), which enhances the apical growth of plants.

Copper plays an important role in photosynthesis, respiration, carbon and nitrogen metabolism, and protection against oxidative stresses.

b) ADVANTAGES

- is instrumental in the quick correction of calcium, magnesium, zinc and copper deficiencies and eliminates the physiological diseases they cause.

- it contributes to firmness and uniform ripening in fruits and vegetables

- it also extends their storage capacity and durability during transportation.

- The high concentration of nutrients in this fertiliser meets the needs of even the most demanding plants.

- It is recommended for preventive and corrective fertilisation of all crops

c) <u>OUTSTANDING QUALITY</u>: a mixture of various EC fertilisers / flakes / IDHA chelated / 100% chelation of micronutrients / low hygroscopicity / fast dissolution and complete solubility / outstanding quality / increased yields and improved yield quality, especially in fruits' post-harvest life.

4. PACKINGS

In 25 kg white plastic bags with label on 20 pallets of 1050 kg, 21 MT/20ft fcl OR in 1000 kg big bags with label, 20 MT/20ft fcl.

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