



# CHELAL<sup>®</sup> Zn

## STRAIGHT INORGANIC MICRONUTRIENT FERTILISER

### Micronutrient chelate fertiliser

#### Micronutrient fertiliser, 7,0 % Zn (DTPA, EDTA, HEEDTA)

7,0 % zinc (Zn), as chelate (DTPA, EDTA, HEEDTA), water soluble

of which chelated by DTPA, 1,3 %

chelated by EDTA, 3,9 %

chelated by HEEDTA, 1,8 %

pH range guaranteeing acceptable stability of the chelate: between pH=4 and pH=10

**poor in chloride**

To be used only where there is a recognized need. Do not exceed the application rate.

## Recommendations

Do not exceed the maximum concentration of 1 % (= 1 L CHELAL<sup>®</sup> Zn in 100 L water). Maximum concentration in greenhouse: 0.5 % (= 500 cc in 100 L water).

For foliar applications avoid high temperatures and bright sunshine.

Treat preferably during early morning or late evening.

## Applications

Consult our crop-related programs.

## Role of zinc

Zinc is essential for good action of numerous enzymes (tartaric acid decarboxylase and oxalic acid decarboxylase, phosphatase, enolase and aldolase) and participates in chloroplast-metabolism.

Zinc is most famous for the part it plays as part of carbondioxideanhydrase. This enzyme acts in the cellprotoplasm and regulates the  $\text{H}_2\text{CO}_3 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$  - reaction

Zinc also stabilizes cytoplasm-structure (ribosomes) and enhances the synthesis of tryptofane (and thus auxine (= phytohormone)), sugars and proteins.

## Relative susceptibility to zinc- deficiency

### Very susceptible

apple  
beans  
citrus  
coffee  
corn  
flax  
grapevine  
hops  
peach  
pear  
rice  
soy

### Moderately susceptible

banana  
barley  
clover  
cotton  
kiwifruit  
lucerne  
olive  
onion  
peanut  
potato  
sorghum  
sugar beet  
tomato  
wheat

### Less susceptible

asparagus  
cabbage  
carrot  
mustard-seed  
oat  
peas  
rye

## Symptoms of zinc-deficiency

Zinc-deficiency is visible as a pronounced chlorosis of the leaves, while the veins remain green. Development of young leafs and growth are interrupted. Generally, these symptoms can be first seen in the upper plant part.

Sustained zinc-deficiency causes leaf-margins, and later on the whole leaf, to become brown.

In corn, chlorosis is combined with undulation of the leaf-margin, shortening of the stems between the leaves – the plant gets a « bushy » appearance –and spadixes that remain in their husks.

## Characteristics

The zinc in CHELAL<sup>®</sup> Zn is completely chelated. This guarantees an optimum absorption by both leaf and root, after which a good internal transport to all plant-parts takes place. Using CHELAL<sup>®</sup> Zn is most effective in young plants. Plant availability is complete.

CHELAL® Zn :

- prevents growth-interruptions caused by Zn-deficiency.
- stimulates fruit set and growth of young shoots.
- increases phytohormone-synthesis (auxines).
- enhances protein building.
- stabilizes cellular pH.

## Precautions

- wash hands thoroughly after handling; do not drink, eat or smoke during handling.
- if swallowed, seek medical assistance.
- in case of contact with eyes, rinse with plenty of clean water.
- store in a cool, dry place, out of reach of children and animals and far away from food products. Always keep the product in its original container.
- store the product at a temperature between 40°F and 90°F (= 5°C - 30°C).

## Miscibility

CHELAL® Zn is miscible with most pesticides and herbicides. Avoid mixing with oil-based products. It is advisable to conduct a miscibility test before application. In case of doubt, consult our technical service.

## Preparation of the solution

Sometimes a light sediment can appear on the bottom of the can. This sediment is soluble in water. Shake well before use. Pour CHELAL® Zn into the sprayer tank while filling with water. Continue stirring until the solution is applied.

## Warranty

The liability of the manufacturer is limited to delivery of the product in its original container in conformity with the guaranteed analysis, as indicated on this label. The manufacturer is not responsible for inappropriate or inaccurate use of the product nor for damage caused by weather conditions, soil characteristics or special sensitivity of crops and varieties. In no case shall BMS Micro-Nutrients be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. BMS Micro-Nutrients makes no warranties of merchantability of fitness for a particular purpose nor any other express or implied warranty except as stated above.

## Contact

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<b>Autorized in organic production in accordance with EU-regulations 2018/848 and 2021/1165</b>
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