



CHELAL[®] Mn

STRAIGHT INORGANIC MICRONUTRIENT FERTILISER

Micronutrient chelate fertiliser

Micronutrient fertiliser, 6,6 % Mn (DTPA, EDTA, HEEDTA)

6,6 % manganese (Mn), as chelate (DTPA, EDTA, HEEDTA), water soluble
of which chelated by EDTA, 5,2 %

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[®] Mn 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 manganese

Manganese is important to plant-life because of its redox capacity and by the catalysing part it plays in building sugars and proteins. Manganese also interferes in enzymatic reactions.

Manganese plays an important (but not always specific part) part as activator of enzymes. It not only interferes in photo system II of the photosynthesis (splitting the water molecule) but also in the final phase of nitrate reduction (reduction of hydroxylamine).

In plant-metabolism, Mn-action is closely related to that of Mg, Fe and Zn. Thus, tackling the Mn-problem rationally also takes in account these and other nutritional elements

Relative susceptibility to manganese-deficiency

Very susceptible

banana
barley
flax
fruit-trees
grapevine
oats
peanut
raspberry
strawberry
tomato

Moderately susceptible

Belgian endive
durum-wheat
leek
kiwiberries
potato
spinach
sugar beet

Less susceptible

cabbages
pineapple

Symptoms of manganese-deficiency

Manganese-deficiency is, as opposed to Fe-deficiency, mainly first visible on the older leaves. The veins remain green while the leaf turns yellowish-orange. These symptoms can be present on the leaf during its whole life span. If deficiency becomes more serious, a waffle-pattern appears, the leaf turns brown and dies. Young twigs lose their leaves and die.

Characteristics

The manganese in CHELAL[®] Mn is completely chelated. This guarantees an optimum absorption by the leaf, after which a good internal transport to all plant-parts takes place.

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[®] Mn 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[®] Mn to 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.

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