



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® B 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 boron

Boron has several functions within the plant's metabolism:

- immunizing the plant against self-intoxication from plant-own polyphenols
- stimulating cambium-growth and apexes of stem and root
- optimizing meristem activity and general metabolism
- enhancing pollen-production
- assuring optimal fecundation
- auxine-translocation (phytohormones)
- regulating water consumption of the plant

Boron also takes part in maintaining cell-wall stability and integrity (anti-lodging agent). It regulates sugar distribution towards all plant-parts and stimulates an appropriate and orderly cell multiplication.

Monocotyledonous crops (cereals, corn, onions, leek) are less susceptible to B-deficiency than are dicotyledonous ones (sugar beet, fruit-trees, vegetables, endive, sunflower).

## Relative susceptibility to boron – deficiency

### Very susceptible

apple  
beet  
broccoli  
carrot  
cauliflower  
endive  
grapes  
olive  
peanut  
rapeseed  
sunflower

### Moderately susceptible

Brussels sprouts  
citrus  
corn  
flax  
gherkin  
green cabbage  
kiwifruit  
hops  
lucerne  
pear  
potato  
tomato

### Less susceptible

barley  
beans  
oat  
peas  
pineapple  
rye  
soy  
strawberry  
wheat

## Symptoms of boron-deficiency

Boron-deficiency is visible as decolouration of the young leaves, «rosetta»-building and the wilting of young shoots and branch-tips. Further on, lesions, corky blotches and fissions on the main veins will appear. Apex-necrosis, bad fruit set, building of small and hollow ears in cereals and absence of seeds are also possible.

Finally, B-deficiency inhibits root-development, while small, thick, hollow rootfibers (root hairs), which are brown and slimy, are grown.

## Characteristics

CHELAL® B contains boron in a unique formulation that ensures maximum availability of this micro-nutrient to the plant and causes CHELAL® B to be a systemic product of high stability in the soil-solution. The negative charge of the product prevents adsorption to the clay-humus-complex, thus maintaining maximum availability and minimum leaching. CHELAL® B is especially suited for use on young crops and is uncomplicatedly absorbed by roots and leaves.

## 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).
- this product can be used on most crops as long as maximum dose and concentration are respected. Since it contains boron, injudicious use on monocots (e.g. cereals, orchids, lilies,...) and greenhouse ornamentals may result in serious injury to the crops.

## Miscibility

CHELAL® B 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® B 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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