

# CHELAL<sup>®</sup> Mg

## SOLUTION OF CHELATED MAGNESIUM (Mg) for foliar applications

*Guaranteed content expressed as percentage by mass:*

Water-soluble magnesium oxide (MgO): 5.3 % (= 42 g Mg/L or 70 g MgO/L)  
of which 0.7 % magnesium oxide (MgO) chelated by DTPA (= 6 g Mg/L or 9 g MgO/L)  
3.3 % magnesium oxide (MgO) chelated by EDTA (= 26 g Mg/L or 44 g MgO/L)  
1.3 % magnesium oxide (MgO) chelated by HEEDTA (= 10 g Mg/L or 17 g MgO/L)  
pH range guaranteeing acceptable stability of the chelated fraction: between pH= 5 and pH= 11

Product low in chlorine.

To be used only where there is a recognised need.

Do not exceed the appropriate dose rates.

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**Product in accordance with Spanish legislation (R. D. 506/2013) and EU-regulation 2019/515**

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### Recommendations

Do not exceed the maximum concentration of 0.5 % (= 0.5 L CHELAL<sup>®</sup> Mg in 100 L water). Maximum concentration in greenhouse: 0.2 % (= 200 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 magnesium

Without magnesium, there would be no photosynthesis on earth, since it is an essential part of the chlorophyll-molecule and thus vital for plant life.

Magnesium also contributes to:

- carotene-synthesis
- pectine-and phytinesynthesis (function shared with Ca).
- phosphorus absorption of plants.

The hydrating properties of the cations Mg<sup>2+</sup>, K<sup>+</sup> and Ca<sup>2+</sup> further contribute to the importance of Mg. Finally, magnesium takes part in numerous enzymatic reactions (ATP).

### Relative susceptibility to magnesium deficiency

Essentially, all plants are susceptible to Mg deficiency. These deficiencies occur after sustained and/or abnormal precipitation, exaggerated liming and unbalanced major element fertilization.

### Symptoms of Mg-deficiency

Even the slightest magnesium-deficiency will cause chlorosis (decrease of chlorophyll content). In cereals, this chlorosis starts at the leaf margins, while in other crops the middle of the leaf will be affected first.

Mg-deficiency is first visible on the older leafs because these can transfer their magnesium to the younger ones. Thus, necrosis of the older leafs can be combined with unaffected young leafs. In grapevines, « stem dieback » prevents a normal development of the bunches.

On apple-trees, chlorosis can remain unclear for a while, but it is swiftly followed by necrosis.

### Characteristics

CHELAL<sup>®</sup> Mg contains magnesium, chelated by DTPA, EDTA and HEEDTA. Through chelation, an excellent absorption by the plant can be guaranteed. After absorption, the magnesium is swiftly transported towards all plant parts.

CHELAL<sup>®</sup> Mg:

- enhances assimilation and internal transport of phosphorus.
- regulates the internal ion transport.

- increases photosynthesis.
- enhances the incorporation of lipids, sugars and proteins.

## Precautions

- P102: Keep out of reach of children
  - P270: Do not eat, drink or smoke when using this product
  - P305+P352+P313: If in eyes: wash with plenty of water and get medical advice
  - P303+P352: If on skin: wash with plenty of water
  - P280: Wear protective gloves/ eye protection/ face protection
  - P308+P314: Get medical advice if exposed or concerned or if you feel unwell (show the label where possible).
  - store the product at a temperature between 40°F and 90°F (= 5°C - 30°C).
  - Handle this product respecting all the necessary and recommended precautions regarding the storage and manipulation of fertilisers
- Not classified as dangerous in accordance with EC-legislation.

## Miscibility

CHELAL® Mg 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® Mg 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.

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