

# ADOB® MnK<sub>2</sub> EDTA - 12.5%









## Characteristics

**ADOB® MnK<sub>2</sub> EDTA - 12.5%** is a specialty fertiliser, specifically designed to supply highly available manganese cations to plants in moderate pH conditions. Owing to a patented production process, **ADOB® MnK<sub>2</sub> EDTA - 12.5%** is characterised by several unique properties. The entire concentration of manganese in the product (12.5% w/w) is 100% chelated by **EDTA**, making it completely effective and fully available to plants. The fertiliser is formulated as fully water-soluble, free-flowing micro-granules without any impurities or dust. Due to the "raspberry" shape of the micro-granules, the product is not hygroscopic and is self-soluble, with no mixing required. The solubility of the product is 1,200g/l at 20°C. Since the production process does not include any sulphates, chlorides or nitrates, the material is anion-free.

An additional advantage of **ADOB® MnK<sub>2</sub> EDTA - 12.5%** is that the product is also sodium-free, which is especially important in greenhouses and areas with higher salinity. Consequently, there is no risk of sodium build-up, while at the same time the potassium contained in the product (K<sub>2</sub>O at 21.3% w/w) is fully plant-available. This product serves as an effective source of manganese and is mainly recommended for foliar application, hydroponics and fertigation. It is recommended for preventive and corrective fertilisation in all agricultural and horticultural crops.

Manganese deficiency is high in plants growing in soils derived from parent material that is inherently low in Mn and in highly leached tropical soils. Manganese acts as a cofactor, activating about 35 different plant enzymes. The majority of these enzymes catalyse redox, decarboxylation and hydrolytic reactions. Manganese plays a primary role in the tricarboxylic acid cycle (TCA), as well as in oxidative and non-oxidative decarboxylation reactions. Moreover, Mn<sup>2+</sup> is a structural part of three enzymes, one of which is superoxide dismutase (MnSOD). MnSOD protects tissues from the deleterious effect of the oxygen radical O<sub>2</sub>, which is formed in various enzymatic reactions.

Major symptoms of manganese deficiency include interveinal chlorosis of younger leaves in dicots and greenish grey spots on the older leaves of cereals. Other symptoms include inhibition of root growth, complete cessation of lateral root formation, reduced oil concentration in seeds, and reduced lignin concentration in roots (which in turn reduces plant resistance to root-infecting pathogens). **ADOB® MnK<sub>2</sub> EDTA - 12.5%** ensures the quick correction of manganese deficiency and treats these physiological disorders.

-  **EC** EC fertiliser
-  **microgranular**
-  **EDTA** chelated
-  **bonus K enrichment**
-  **100% chelated Mn**
-  **sodium - free**
-  **outstanding quality**
-  **increased yields and improved yield quality**



Packaging:  
1, 3, 5, 25, 1000 kg

## Composition

### Composition – ADOB® MnK<sub>2</sub> EDTA – 12.5%

| Nutrients       | Symbol           | Content [% w/w] | Form                    |
|-----------------|------------------|-----------------|-------------------------|
| Potassium oxide | K <sub>2</sub> O | 21.3            | soluble in water        |
| Manganese       | Mn               | 12.5            | chelated by <b>EDTA</b> |

