



# MICRO NUTRIENTS

Essential for an efficient fertilization program



## • What

Micro nutrients are essential plant nutrients and each contribute to a healthy plant growth. Even though the amounts required are small, a deficiency of any micro nutrient can cause important production and quality losses.



## • Types

The main micro nutrients are Boron (B), Copper (Cu), Iron (Fe), Manganese (Mn), Molybdenum (Mo) and Zinc (Zn).



## • Deficiency

Deficiencies can be caused by :

- a deficiency of the micro nutrients in the soil
- a deficiency of available water-soluble micro nutrients in the soil caused by too high pH levels. In particular Manganese, Zinc and Iron are not available at higher pH-levels.



## • Chelates

A chelate is composed of a micro nutrient and a chelating agent. Chelating agents incorporate micro nutrients into a soluble bound form. The combination is water soluble and available for the roots. Chelates thus solve the availability problem of micro nutrients, especially in alkaline soils.

The quality of the chelate depends on :

- strength of binding between the chelating agent and the micro nutrient, especially at high pH-values
- degradability resistance to UV radiation and oxidation

## • GROGREEN micro nutrients

Our trusted GROGREEN brand extends from high quality single nutrient chelates to high quality mixtures, covering a broad range of crops and water qualities. GROGREEN chelates are pure free flowing micro nutrients and offer the best guarantee for a healthy crop growth. All micro nutrients are 100% water-soluble.



### Lemagro NV

Rumstsestraat 4  
2840 Rumst - Belgium  
Tel. + 32-3-888 35 77  
Fax + 32-3-888 08 27  
www.lemagro.com

# MICRO NUTRIENTS

## GROGREEN product range

### Single micro nutrients

Product	Chelate	Composition	Application	pH stability
<b>Manganese E-13</b>	EDTA	13 % Mn - EDTA	Soil - Hydroponics - Foliar	3 - 10
<b>Zinc E-15</b>	EDTA	15 % Zn - EDTA	Soil - Hydroponics - Foliar	3 - 10
<b>Copper E-15</b>	EDTA	15 % Cu - EDTA	Soil - Hydroponics - Foliar	3 - 10
<b>Iron E-13</b>	EDTA	13 % Fe - EDTA	Soil - Hydroponics - Foliar	3 - 6,5
<b>Iron D-11</b>	DTPA	11 % Fe - DTPA	Soil - Hydroponics - Foliar	3 - 7,5
<b>Ferox 6</b>	EDDHA	6 % Fe - EDDHA	Soil - Hydroponics	3 - 7,5
<b>Ferral 6</b>	EDDHA	6 % Fe - EDDHA	Soil - Hydroponics	3 - 11

### Mixtures of micro nutrients

Product	Chelate	Composition	Application	pH stability
<b>Gromix FDE</b>	EDTA / DTPA	1,5 % B 1 % Cu - EDTA 3,7 % Fe - EDTA 2,5 % Fe - DTPA 2 % Mn - EDTA 0,25 % Mo 2 % Zn - EDTA	Soil - Foliar	3 - 7,5
<b>Gromix ME</b>	EDTA	1,3 % B 3,3 % Mn - EDTA 7,5 % Fe - EDTA 0,28 % Cu - EDTA 1,3 % Zn - EDTA 0,24 % Mo	Soil - Hydroponics - Foliar	3 - 6,5
<b>Gromix MS</b>	EDTA / DTPA	1,3 % B 0,28 % Cu - EDTA 6,5 % Fe - DTPA 3 % Mn - EDTA 0,24 % Mo 1,3 % Zn - EDTA	Soil - Hydroponics - Foliar	3 - 7,5

#### Packing:

- 1kg sealed pouch with resealable zip-lock, 20 pouches/carton box
- 25kg polypropylene bag with inner liner