Every crop needs several kinds of nutrients. Our GROGREEN MICRO product line contributes to the improvement of crop quality and higher yields around the world. Constituting of single (chelated) micronutrients such as iron (Fe), manganese (Mn), zinc (Zn), copper (Cu), Boron (B) and molybdenum (Mo) or a combination of these micronutrients (Gromix), GROGREEN MICRO products are crucial in the overall health of the plant or crop.
Nutrient function in plants:
• Cell wall strength and development
• Fruit and seed development (reproductive structures)
• Germination of pollen grains and pollen tube growth (pollen viability)

Deficiency symptoms
• chlorotic/necrotic young leaves
• death of main growing point
• abnormal cell wall growth (distorted leaves, thicker and curled leaf tips)
• overall stunted growth (shortened internodes)
• poor pollination and seed viability
• failure of flower buds formation

GROGREEN MICRO products to use (+ application rates):
Liquid boron (Borom-ethanolamine complex), 15,4% B (11% W/W)

Nutrient function in plants:
• major function in photosynthesis (indirect role in chlorophyll production)
• major function in reproductive stages
• increases sugar content
• intensifies color
• improves flavor of fruits and vegetables

Deficiency symptoms
• chlorosis in younger leaves
• stunted growth
• delayed maturity
• lodging
• increased disease susceptibility
• cereals: poor grain production and filling
• fruits: small, light-coloured and low amounts of total soluble solids, vitamins and acids

GROGREEN MICRO products to use (+ application rates):
Copper E-15 (EDTA-chelated), 15% Cu

Nutrient function in plants:
• promotes chlorophyll formation and function
• reactions involving cell division and growth
• constituent of enzymes and proteins

Deficiency symptoms
• interveinal chlorosis in young leaves (develops to chlorosis in further stages of deficiency)
• slow plant growth, reduced yield
• citrus: smaller fruits, severe deficiency results in lower TSS content, higher acidity, lighter color

GROGREEN MICRO products to use (+ application rates):
• Iron E-13 (EDTA-chelated), 13% Fe
• Iron D-11 (DTPA-chelated), 11% Fe
• Ferox 6 (EDDHA-chelated), 6% Fe
• Ferral 6 (EDDHA-chelated), 6% Fe
Nutrient function in plants:
- aids in chlorophyll synthesis (photosynthesis)
- increase availability of P and Ca
- accelerate germination and maturity

Deficiency symptoms
- interveinal chlorosis in young and older leaves, depending on the crop
- less distinct than Fe-deficiency
- stunted plants and reduced yield can occur

GROGREEN MICRO products to use (+ application rates):
Manganese E-13 (EDTA-chelated), 13% Mn

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Nutrient function in plants:
- required to form nitrate reductase and nitrogenase (Bacterial N2-fixation)
- needed to convert inorganic phosphates to organic forms in the plant

Deficiency symptoms
- stunted growth
- chlorosis in legumes
- pale leaves that may be scorched or rolled and eventually wither
- leaves may appear thick and brittle

GROGREEN MICRO products to use (+ application rates):
Only available in GROMIX MS or ME

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Nutrient function in plants:
- aids plant growth hormones production (auxins; internode elongation)
- necessary for chlorophyll production, carbohydrate and starch formation.
- aids in seed formation
- necessary for enzyme systems for energy production, protein synthesis and growth regulation.

Deficiency symptoms
- middle leaves chlorosis (striping effect)
- severe stunting
- poor flowering and seed set
- reduced tiller formation and abnormal grain formation
- citrus: excessive defoliation and lateral growth, decreased fruit size, reduced vitamin C content and lighter color

GROGREEN MICRO products to use (+ application rates):
Zinc E-15 (EDTA-chelated), 15% Zn
Liquid: Zinc LE-12 (EDTA chelated), 12% Zn (9% W/W)
GROMIX MS en GROMIX ME

Our GROGREEN MICRO product range not only consists of single micronutrients. There are also special micronutrient mixtures that can be applied to the necessitous crops for a general deficiency counteraction.

Specifications

<table>
<thead>
<tr>
<th>Product</th>
<th>Chelate</th>
<th>Composition</th>
<th>Application</th>
<th>pH stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gromix ME</td>
<td>EDTA</td>
<td>1,3% B 7,5% Fe-EDTA 0,24% Mo</td>
<td>Soil-hydroponics – Foliar</td>
<td>3 – 6,5</td>
</tr>
<tr>
<td>Gromix Ms</td>
<td>EDTA/DTPA</td>
<td>1,3% B 6,5% Fe-DTPA 0,24% Mo</td>
<td>Soil-hydroponics – Foliar</td>
<td>3 – 7,5</td>
</tr>
<tr>
<td>Liquid Zinc</td>
<td>/</td>
<td>12% Zn (9% w/w)</td>
<td>Soil-hydroponics – Foliar</td>
<td>3 – 10</td>
</tr>
<tr>
<td>Liquid Boron</td>
<td>/</td>
<td>15,4% B (11% w/w)</td>
<td>Soil-hydroponics– Foliar</td>
<td>3 – 10</td>
</tr>
<tr>
<td>Copper E-15</td>
<td>EDTA</td>
<td>15% Cu – EDTA</td>
<td>Soil – Hydroponics – Foliar</td>
<td>3 – 10</td>
</tr>
<tr>
<td>Ferox 6</td>
<td>EDDHA</td>
<td>6% Fe – EDDHA</td>
<td>Soil – Hydroponics</td>
<td>3 – 7,5</td>
</tr>
<tr>
<td>Ferral 6</td>
<td>EDDHA</td>
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<td>3 – 7,5</td>
</tr>
<tr>
<td>Iron D-11</td>
<td>DTPA</td>
<td>11% Fe – DTPA</td>
<td>Soil – Hydroponics – Foliar</td>
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</tr>
<tr>
<td>Iron E-13</td>
<td>EDTA</td>
<td>13% Fe – EDTA</td>
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<td>3 – 6,5</td>
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<tr>
<td>Manganese E-13</td>
<td>EDTA</td>
<td>13% Mn – EDTA</td>
<td>Soil – Hydroponics – Foliar</td>
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<tr>
<td>Zinc E-15</td>
<td>EDTA</td>
<td>15% Zn - EDTA</td>
<td>Soil – Hydroponics – Foliar</td>
<td>3 – 10</td>
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<tr>
<td>GL Micro</td>
<td>GLY 16</td>
<td>1,11% B 0,24 % Cu 6,30% Fe</td>
<td>Foliar</td>
<td>3 – 8</td>
</tr>
</tbody>
</table>

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www.lima-europe.com

GROGREEN MICRO has different packaging sizes:
- 1kg in aluminium pouch
- 5kg or 25 kg in PP/PE bag
- 1kg or 5kg in bottle (GL MICRO)
- 10L in plastic pouch (Liquid boron and zinc)