The team of **BMS Micro-Nutrients** believes that foliar fertilisation is the most efficient way to nourish the plants. The company developed an innovative product line based on chelated micro and meso elements, and various complete fertilisers and also nutritional programmes, which are all designed and adapted for this technique. The aim of **BMS Micro Nutrients** is to improve and optimize plant nutrition continuously.

The foliar programs of **BMS Micro-Nutrients** are not only limited to the application of micro-nutrients, but also meso- and major elements. The combination of all these elements in a foliar fertilisation programme can lead to the complete foliar nutrition of the crop or Total Foliar Fertilization (NTF). This technique was first applied in vineyards and proved its value with positive results over the last 15 years. In recent years, NTF has also successful been used on other crops such as fruit trees, industrial tomato, potatoes, etc. These nutritional programmes allow also for a drastic decrease in the need for soil fertilisation. The nutritional programmes of **BMS Micro-Nutrients** benefit the producer by raising the quality of harvested products, without increasing costs or working hours, in addition to which simultaneously environmental pressures are reduced.

An experienced team of technicians advises and guides you in the development of these tailor-made foliar programmes. They come from all over Europe, and also from Brazil, the USA, New Zealand, and from the Middle East. We participate in important research projects in collaboration with official bodies. Through these projects we share with you interesting developments in the field of foliar nutrition.

Produced by:
**BMS Micro-Nutrients NV**
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**Contact:**
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Chelal B

Properties:
Chelal B is a boron fertiliser where boron is complexated by alcanolamines and chelated by polyols. Chelal B assures optimal leaf absorption and an excellent distribution to all plant parts.

Specifications:
Water-soluble boron (B): 8.0 % (= 105 g B/L).

Chelal BMo

Properties:
In Chelal BMo, Boron and Molybdenum are simultaneously present in chelated form, resulting in a highly efficient fertiliser for application in Leguminosae, Brassicaceae (crucifers) and Cucurbitaceae (cucumber family).

Specifications:
Water-soluble boron (B): 5.0 % in a complexed form (= 60 g B/L); Water-soluble molybdenum (Mo): 1.0 % (= 12 g Mo/L)

Chelal Mo

Properties:
In Chelal Mo, molybdenum is chelated by EDTA. Due the chelated form, low application doses (0.2-0.5 L/ha) will be sufficient to supply Molybdenum to the plant. Molybdenum is essential for nitrogen assimilation and raises the efficiency of the other applied fertilisers.

Specifications:
Molybdenum (Mo) soluble in water: 6.3 % (= 75 g Mo/L) chelated with EDTA.

Chelates: ADVANTAGES
- are characterized by a high chemical stability, explaining the power to keep a maximum of micro-nutrients in solution, which results in a maximum availability for the plant.
- assure a good absorption/penetration and a fast translocation to all plant parts.
The chelates of BMS Micro-Nutrients are the most elaborated formulations on the market.
The most important features are:
- boron and molybdenum are chelated
- the trace-elements are 100 % chelated.
- high purity: there are no salts nor heavy metals present
- chelating agents with high intrinsic stability are being used (synthetic chelating agents)
- depending on the product, two or more chelating agents are used to increase even further the efficiency of the application.
- the products can be applied to the soil as well as on the leaf (possibility to combine with pesticide treatments).
**Chelal RD NF**

**Properties:**
Highly concentrated mixture of micro nutrients. The absolute percentage as well as the relative proportion, especially of the elements Zn, Mn and Fe, make this product extremely suited for the use in tree nursery and fruit growing.

**Specifications:**
- Water-soluble boron (B): 0.75 % in a complexed form;
- Water-soluble copper (Cu): 0.5 % chelated by EDTA;
- Water-soluble iron (Fe): 3.1 % chelated by DTPA;
- Water-soluble manganese (Mn): 3.9 % chelated by EDTA;
- Water-soluble zinc (Zn): 4.85 % chelated by EDTA.

**Packaging**
- Standard: 1 kg (box: 12 x 1 kg)

**Chelal FeMn**

**Properties:**
CHELAL® FeMn contains chelated iron and manganese which guarantees a swift and easy absorption of these elements by the leaf, followed by a quick internal transport to all plant parts. Through chelation, antagonistic effects that may occur between iron and manganese can be avoided.

**Specifications:**
- Water-soluble iron (Fe): 4.6 % chelated by DTPA (= 60 g Fe/L);
- Water-soluble manganese (Mn): 1.5 % chelated by EDTA (= 20 g Mn/L).

**Packaging**
- Standard: 1 L (box: 12 x 1 L), 5 L (box: 4 x 5 L)
- On demand: 60 L, 120 L, 800 L

**Chelal BZn**

**Properties:**
Chelal BZn contains chelated boron (chelated by polyols) and zinc (chelated by DTPA, EDTA and HEEDTA). Since these are essential micro-nutrients for stimulating fruit set, they are especially required before and during flowering. B and Zn also support vegetation regrowth.

**Specifications:**
- Water-soluble boron (B): 5.3 % (= 68.9 g B/L);
- Water-soluble zinc (Zn): 2.3 % chelated by DTPA, EDTA and HEEDTA (= 29.9 g Zn/L).

**Packaging**
- Standard: 1 L (box: 12 x 1 L), 5 L (box: 4 x 5 L)
- On demand: 60 L, 120 L, 800 L

**Chelal Zn**

**Properties:**
Chelal Zn contains zinc chelated by 3 chelating agents (DTPA, EDTA, HEEDTA). This guarantees a good availability, as well as a fast translocation through the plant.

**Specifications:**
- Water-soluble zinc (Zn): 7.0 % (= 90 g Zn/L);
- Total zinc (Zn) chelated by authorised chelating agents: 7.0 % (= 90 g Zn/L);
- Zinc (Zn) chelated by DTPA: 1.3 % (= 16.7 g Zn/L);
- Zinc (Zn) chelated by EDTA: 3.9 % (= 50.2 g Zn/L);
- Zinc (Zn) chelated by HEEDTA: 1.8 % (= 23.1 g Zn/L).
**CHELATED Products**

**Chelal Fe**

**Properties:**
Chelal Fe is an iron chelate, for leaf application and for use as iron source in nutrient solutions.

**Specifications:**
Water-soluble iron (Fe): 5.2 % (= 65 g Fe/L); Total iron (Fe) chelated by authorised chelating agents: 5.2 % (= 65 g Fe/L); Iron (Fe) chelated by DTPA: 3 %; Iron (Fe) chelated by EDTA: 1.2 %; Iron (Fe) chelated by HEEDTA: 1 %

**Packaging**
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)
- 60 L
- 120 L
- 800 L

**Chelal Mn**

**Properties:**
EC FERTILISER: Manganese chelate (chelating agents DTPA, EDTA, HEEDTA)

**Specifications:**
Water-soluble manganese (Mn): 6.6 % (= 90 g Mn/L); Total manganese (Mn) chelated by authorised chelating agents (DTPA, EDTA, HEEDTA): 6.6 % (= 90 g Mn/L); Manganese (Mn) chelated by EDTA: 5.2 % (= 70.9 g Mn/L); Manganese (Mn) chelated by DTPA and HEEDTA: 1.4 % (= 19.1 g Mn/L).

**Packaging**
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)
- 60 L
- 120 L
- 800 L

**Chelal 3**

**Properties:**
Liquid mixture of chelated Iron, Manganese and Zinc. Chelal 3 contains the ideal balance of these 3 elements for crops cultivated on calcareous soils, on which these 3 elements are limited available. Although the symptoms are mainly of Iron deficiency, deficiencies of Mn and Zn are generally also present.

**Specifications:**
Water-soluble iron (Fe): 4.5 % chelated by DTPA and EDTA (= 60 g Fe/L); Water-soluble manganese (Mn): 1.2 % chelated by EDTA (= 15 g Mn/L); Water-soluble zinc (Zn): 0.5 % chelated by EDTA (= 6 g Zn/L)

**Packaging**
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)
- 60 L
- 120 L
- 800 L

**Iron Chloris: FOLIAR SOLUTIONS**
Chelated iron for soil applications seldom leads to acceptable results, despite the use of high doses.
BMS Micro-Nutrients has developed a highly performing foliar nutritional programme, where besides iron, other trace elements are administered. Factors, which induce iron deficiency, often reduce the availability of zinc and manganese. It is a preferable to apply all these elements simultaneously. BMS Micro-Nutrients developed different solutions. The combination of Chelal Fe with Chelal RD gives good results for a very competitive price and is a real revolution in combating chlorosis. The standard programme consists of 2 or 3 foliar applications of 1-1.5 kg/ha Chelal RD + 0.5-2 L/ha Chelal Fe, completed later with 2 or 3 foliar applications of Chelal Fe. An other solution can be the application of Chelal 3, a product containing already Fe, Mn and Zn.
Chelated Products

**Chelal Hydro NF**

Properties: Mixture of chelated trace-elements designed for the use in hydroponics and for soil applications by means of drip irrigation. Especially in winter, when the drip frequency is lower, and when the lower temperature slows down the metabolism of the root system, use of good available trace elements is very important.

Specifications: Water-soluble boron (B): 0.85 % in a complexed form; Water-soluble copper (Cu): 0.25 % chelated by EDTA; Water-soluble iron (Fe): 4.7 % chelated by DTPA; Water-soluble manganese (Mn): 4.4 % chelated by EDTA; Water-soluble molybdenum (Mo): 0.35 % chelated by EDTA; Water-soluble zinc (Zn): 2.6 % chelated by EDTA.

**Hyponik Oligo**

Properties: Liquid mixture of chelated trace-elements designed for the use in hydroponics and for soil applications by means of drip irrigation.

Specifications: Water-soluble boron (B): 0.6 % complexed (= 8 g B/L); Water-soluble copper (Cu): 0.2 % chelated by EDTA (= 2 g Cu/L); Water-soluble iron (Fe): 3.0 % chelated by DTPA (= 38 g Fe/L); Water-soluble manganese (Mn): 1.6 % chelated by EDTA (= 20 g Mn/L); Water-soluble molybdenum (Mo): 0.16 % (= 2 g Mo/L); Water-soluble zinc (Zn): 1.0 % chelated by EDTA (= 12 g Zn/L).

**Chelal Mg**

Properties: Chelated magnesium for foliar application. This product stimulates the photosynthesis which results in good maturing and better fruit quality.

Specifications: 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).

**Chelal Omnical**

Properties: Calcium chelate with a fast absorption/penetration and translocation capacity. This product is systemic, raising the crop quality, as well as the mechanical resistance and firmness of the fruit. Chelal Omnical reduces the number of fruits with visual imperfections and increases the conservation potential.

Specifications: Water-soluble calcium oxide (CaO): 8.1 % (= 100 g CaO/L) of which 8.1 % calcium oxide (CaO) chelated by DTPA (= 100 g CaO/L).
**Chelal Cu**

**Properties:**
Chelal Cu contains copper chelated with 3 chelating agents (EDTA, DTPA and HEDTA), resulting in a product with very high stability. For use in pre-emergence and post-emergence and for leaf applications.

**Specifications:**
- Water-soluble copper (Cu): 7.6 % (= 100 g Cu/L);
- Total copper (Cu) chelated by authorised chelating agents: 7.6 % (= 100 g Cu/L);
- Copper (Cu) chelated by EDTA: 6.0 % (= 78.9 g Cu/L);
- Copper chelated with the other chelating agents: 1.6 % (= 21.1 g Cu/L).

**Packaging**
- Standard: 1 L (box: 12 x 1 L), 5 L (box: 4 x 5 L)
- On demand: 60 L, 120 L, 800 L

**Chelal Kubig**

**Properties:**
This product based on chelated copper has been developed to combine the advantages of the nutrition of copper and its influence on the plant's defences. Particularly suitable for fruit and vegetables. Fertilizer on plants, NFU 42-003-02.

**Specifications:**
- Water-soluble Copper (Cu): 8.0 %
- Copper (Cu): 8.0 %
- Chelating agents: TEPA, TETA and DETA.
- Chelating agent content: 8.0 % TEPA, 6.1 % TETA and 4.3 % DETA

**Packaging**
- Standard: 1 L (box: 12 x 1 L), 5 L (box: 4 x 5 L)

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**NUTRITION and HEALTH**

A balanced nutrition is the ultimate requirement for the health of all living organisms. In this logic, all nutrients are of vital importance. Copper and Calcium play a extra special role.

Copper stimulates the lignin-production which has a positive effect on the mechanical strength of the plant. Copper is physically part of the poly-phenoloxidase, an enzyme that raises the auto-defence of the plant. Copper activates the synthesis of phytoalexines, which prevent the germination of mouldy spores and mycelium development.

Calcium plays a role on 2 levels:
- In the first place, calcium reinforces the cell walls and the cell membranes, being a structural part of these.
- Secondly, calcium blocks the activity of pectinolytic enzymes that are used by pathogens to damage and infiltrate plant tissue.

Algae extracts are known to increase the systemic acquired resistance (SAR) of plants (vaccine effect). The high content of anti-oxydantia also reduces mould infections. Chelal Omnical and Chelal Alga L, applied together, have an synergetic impact.
Chelal MnZn

Properties:
CHELAL® Mn/Zn contains chelated manganese and zinc which guarantees a swift and easy absorption of these elements by the leaf, followed by a quick internal transport to all plant parts.

Specifications:
Water-soluble manganese (Mn): 4.6 % chelated by EDTA (= 60 g Mn/L); Water-soluble zinc (Zn): 2.3 % chelated by DTPA, EDTA and HEEDTA (= 30 g Zn/L)

Chelal Co

Properties:
Cobalt is an essential element for animals and bacteria. Chelal® Co is developed to treat fodder crops such as pasture, and leguminous crops. It stimulates the nitrogen fixation by the Rhizobium in the root nodules of leguminous crops.

Specifications:
Water-soluble cobalt (Co): 5.1 % (= 60 g Co/L); Total cobalt (Co) chelated by authorised chelating agents: 5.1 % (= 60 g Co/L); Cobalt (Co) chelated by EDTA: 5.1 % (= 60 g Co/L).
Kappa Range

Properties:
The Kappa range consists of NPK fertilisers specially designed to replace partially or even totally soil fertilisation. Kappa V, Kappa Z and Kappa M contain rapidly available nitrogen and stimulate the vegetative growth. Kappa Z also contains large amounts of sulphur to support protein production, and the production of aromatic compounds. Kappa G stimulates flower- and fruit set, by inducing generative growth.

Specifications:
- **Kappa G (8.5-20-30):** Total Nitrogen (N): 8.5 % (nitric nitrogen: 6.5 %; ammoniacal nitrogen: 2.0 %); phosphor (P₂O₅) soluble in neutral ammonium citrate: 20.0 %; phosphor (P₂O₅) soluble in water: 20.0 %; potassium (K₂O) soluble in water: 30.0 %; iron (Fe) soluble in water: 0.3 % chelated by EDTA.
- **Kappa V (18-10-24 (1,2)):** Total nitrogen (N): 18.0 % (Nitric nitrogen: 6.8 %; Ammoniacal nitrogen: 1.6 %; Ureic nitrogen: 9.6 %); Phosphorus pentoxide (P₂O₅) soluble in neutral ammonium citrate and in water: 10 %; Water-soluble phosphorus pentoxide (P₂O₅): 10 %; Water-soluble potassium oxide (K₂O): 24 %; Water-soluble magnesium oxide (MgO): 2 %; Water-soluble iron (Fe): 0.3 % chelated by EDTA.
- **Kappa M (22,8-12-18):** Total nitrogen (N): 22.8 % (Nitric nitrogen: 4.8 %; Ammoniacal nitrogen: 1.8 %; Ureic nitrogen: 16.2 %); Phosphorus pentoxide (P₂O₅) soluble in neutral ammonium citrate and in water: 12.0 %; Water-soluble phosphorus pentoxide (P₂O₅): 12.0 %; Water-soluble potassium oxide (K₂O): 18.0 %; Water-soluble manganese (Mn): 1 % chelated by EDTA.
- **Kappa Z (21.7-0-5-2.3-11):** Total nitrogen (N): 21.7 % (Ammoniacal nitrogen: 5.5 %; Ureic nitrogen: 16.2 %); Water-soluble potassium oxide (K₂O): 5.0 %; Water-soluble magnesium oxide (MgO): 3.8 %; Water-soluble sulphur trioxide (SO₃): 27.7 %; Water-soluble boron (B): 0.5 %; Water-soluble manganese (Mn): 0.5 % chelated by EDTA.

Packaging

Standard:
- Kappa V / G - 5 kg (box: 4 x 5 kg)
- Kappa M / Z - 4 kg (box: 4 x 4 kg)

On demand:
- 60 L
- 120 L
- 800 L

Landamine Range

Properties:
The Landamine products contain a high concentration of P and K, completed with one or two trace elements.

Specifications:
- **Landamine Zn (0-21-24):** phosphor (P₂O₅) soluble water: 21 % (= 320 g P₂O₅/L); potassium (K₂O) soluble in water: 24 % (= 360 g K₂O/L); zinc (Zn) soluble in water: 1.6 % chelated by EDTA, DTPA, HEEDTA (= 25 g Zn/L).
- **Landamine Mn (0-14-15.5):** phosphor (P₂O₅) soluble in water: 14 % (= 200 g P₂O₅/L); potassium (K₂O) soluble in water: 15.5 % (= 221 g K₂O/L); manganese (Mn) soluble in water: 2.1 % chelated by EDTA (= 30 g Mn/L).
- **Landamine Cu (0-21-24):** phosphor (P₂O₅) soluble in water: 21 % (= 321 g P₂O₅/L); potassium (K₂O) soluble in water: 24 % (= 367 g K₂O/L); copper (Cu) soluble in water: 1.3 % chelated by DTPA, EDTA (= 20 g Cu/L).
- **Landamine BMo (0-21-23):** phosphor (P₂O₅) soluble in water: 21 % (= 320 g P₂O₅/L); potassium (K₂O) soluble in water: 23 % (= 350 g K₂O/L); boron (B) soluble in water: 11 % (= 16 g B/L); molybdenum (Mo) soluble in water: 0.3 % chelated by EDTA (= 4 g Mo/L).
- **Landamine PK (0-22-29):** Water-soluble phosphorus pentoxide (P₂O₅): 22 % (= 352 g P₂O₅/L); Water-soluble potassium oxide (K₂O): 29 % (= 464 g K₂O/L).

Packaging

Standard:
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)

On demand:
- 60 L
- 120 L
- 800 L
Azavis Range

**Properties:**
Azavis products are nitrogen fertilizers containing chelated micro-nutrients, to stimulate growth and avoid deficiencies of these trace elements. Azavis MnZn is conceived for corn fertilisation but can also be used in other annual crops. Azavis Cu was conceived for cereals. The combination of nitrogen and copper is ideal for tillering. The product can also be interesting for young monocotyledons with high copper requirements such as cereals, onion, garlic, leeks, .... Products low in biuret.

**Specifications:**
- **Azavis MnZn:** Total nitrogen (N): 24 % (= 314 g N/L) of which ammoniacal nitrogen: 4,9 % (= 64 g N/L), nitric nitrogen: 4,9 % (= 64 g N/L), ureic nitrogen:14,2 % (= 186 g N/L); Water-soluble manganese (Mn): 1% chelated by DTPA, EDTA and HEEDTA (=13 g Mn/L); Water-soluble zinc (Zn): 1% chelated by DTPA, EDTA and HEEDTA (= 13 g Zn/L).
- **Azavis Cu:** Total nitrogen (N): 25.4 % (= 329 g N/L) of which ammoniacal nitrogen: 5.2 % (= 67 g N/L), nitric nitrogen: 5.2 % (= 67 g N/L), ureic nitrogen:15.0 % (= 195 g N/L); Water-soluble copper (Cu): 1.5% chelated by DTPA, EDTA and HEEDTA (=19,5 g Cu/L).

Chelal Noor

**Properties:**
NPK fertiliser (6-16-20) with magnesium (Mg) and chelated trace elements B, Fe, Mn, Mo and Zn for foliar application. This products supports fruit sizing and improves homogeneity of the fruits.

**Specifications:**
- Total nitrogen (N): 6.0 % (Nitric nitrogen: 4.0 %; Ammoniacal nitrogen: 2.0 %); Phosphorus pentoxide (P₂O₅) soluble in neutral ammonium citrate and in water: 16.0 %; Water-soluble phosphorus pentoxide (P₂O₅): 16.0 %; Water-soluble potassium oxide (K₂O): 20.0 %; Water-soluble magnesium oxide (MgO): 2.0 %; Water-soluble boron (B): 0.6 %; Water-soluble iron (Fe): 0.3 % chelated by DTPA; Water-soluble manganese (Mn): 0.5 % chelated by EDTA; Water-soluble molybdenum (Mo): 0.2 % chelated by EDTA; Water-soluble zinc (Zn): 0.5 % chelated by EDTA.

Emma Mix

**Properties:**
NPK (Mg,S) fertiliser, 4.4-19-27 (2.65-3.52), with boron (B), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn) for horticultural use. Can be used as well as foliar fertiliser, or as part of the nutrient solutions.

**Specifications:**
- Total nitrogen (N): 4.4 % (Nitric nitrogen: 4.4 %); Phosphorus pentoxide (P₂O₅) soluble in neutral ammonium citrate and in water: 19 %; Water-soluble phosphorus pentoxide (P₂O₅): 19 %; Water-soluble potassium oxide (K₂O): 27 %; Water-soluble magnesium oxide (MgO): 4.4 %; Water-soluble sulphur trioxide (SO₃): 8.8 %; Water-soluble boron (B): 0.05 %; Water-soluble copper (Cu): 0.01 % chelated by EDTA; Water-soluble iron (Fe): 0.32 % chelated by DTPA; Water-soluble manganese (Mn): 0.18 % chelated by EDTA; Water-soluble molybdenum (Mo): 0.01 %; Water-soluble zinc (Zn): 0.1 % chelated by EDTA.
FOLIAR Fertilisers

**Fructol NF**

**Properties:**
NPK (Mg,S) fertiliser, 5-8-15 (2,7-3,5), with boron (B), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn) for leaf sprays. Blend.

**Specifications:**
- Total nitrogen (N): 5 % (Nitric nitrogen: 3.5 %; Ammoniacal nitrogen: 1.5 %);
- Phosphorus pentoxide (P₂O₅) soluble in neutral ammonium citrate and in water: 8 %;
- Water-soluble phosphorus pentoxide (P₂O₅): 8 %;
- Water-soluble potassium oxide (K₂O): 15 %;
- Water-soluble magnesium oxide (MgO): 4.4 %;
- Water-soluble sulphur trioxide (SO₃): 8.8 %;
- Water-soluble boron (B): 0.85 %;
- Water-soluble iron (Fe): 0.8 % chelated by DTPA and EDTA;
- Water-soluble manganese (Mn): 0.8 % chelated by EDTA;
- Water-soluble molybdenum (Mo): 0.08 % chelated by EDTA;
- Water-soluble zinc (Zn): 0.8 % chelated by EDTA.

**Packaging**
- 1 kg (box: 12 x 1 kg)
- 5 kg (box: 4 x 5 kg)

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**Fructol Bio**

**Properties:**
Fructol® Bio is a foliar fertiliser containing marine plant extract derived from Ascophyllum nodosum and chelated micro-nutrients (Fe, Mn, Mo and Zn). The boron is chelated by polyols. Fructol® Bio stimulates and regulates crop development and increases harvest yield and quality. Especially on crops with high boron demands (horticultural crops, ornamental plants, grapes, fruit-trees,...), results of using Fructol® Bio can be very pronounced.

**Specifications:**
- Marine plant extracts: 12 % (= 150 g/L);
- Water-soluble boron (B): 0.5 % (= 6 g B/L);
- Water-soluble iron (Fe): 0.8 % chelated by DTPA and EDTA (= 10 g Fe/L);
- Water-soluble manganese (Mn): 0.8 % chelated by EDTA (= 10 g Mn/L);
- Water-soluble molybdenum (Mo): 0.08 % (= 1 g Mo/L);
- Water-soluble zinc (Zn): 0.8 % chelated by EDTA (= 10 g Zn/L).

**Packaging**
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)
- 60 L
- 120 L
- 800 L

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**Total Foliar Nutrition**

BMS Micro-Nutrients is a leading company in total foliar nutrition. First experiences were obtained in vineyards. A 10 year lasting pilot project on the varieties: Cabernet S. - Cabernet F. - Sauvignon and Chardonnay in cooperation with ERSA (Pozzuolo - Italy), has shown the feasibility of this leaf nutrition technique with very good results.

**Kappa V and Kappa G** in combination with **Fructol** and other trace element formulations from the BMS Micro-Nutrients range, constitute the basis of the fertilisation programme. The products from the **Landamine** range, which do not contain nitrogen, serve as balanced nutrition with P and K and trace elements.

Gradually, this strategy is being introduced in other crops (apple, pears, stone fruit, table grape, tree nursery, bulb growing, soya, cotton, potatoes,...). In this way, foliar fertilisation replaces partially or even completely soil fertiliser applications. (always in function of the soil characteristics and the local circumstances).
FOLIAR Fertilisers

**Kalitol NF**

**Properties:**
EC FERTILISER: NPK (Mg,S) fertiliser, 4-4-12 (3.5-4.6), with boron (B), iron (Fe) and manganese (Mn) for leaf sprays. Blend.

**Specifications:**
- Total nitrogen (N): 4.0 % (Nitric nitrogen: 3.4 %; Ammoniacal nitrogen: 0.6 %);
- Phosphorus pentoxide (P₂O₅) soluble in neutral ammonium citrate and in water: 4.0 %;
- Water-soluble phosphorus pentoxide (P₂O₅): 4.0 %;
- Water-soluble potassium oxide (K₂O): 12.0 %;
- Water-soluble magnesium oxide (MgO): 5.8 %;
- Water-soluble sulphur trioxide (SO₃): 11.6 %;
- Water-soluble boron (B): 0.85 %;
- Water-soluble iron (Fe): 2.3 % chelated by DTPA and EDTA;
- Water-soluble manganese (Mn): 0.8 % chelated by EDTA.

**Packaging**
- **Standard:**
  - 5 kg (box: 4 x 5 kg)

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**Decafol**

**Properties:**
NPK-fertiliser solution, 9.5-3.2-3.9, with boron (B), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo) and zinc (Zn) for foliar applications.

**Specifications:**
- Total nitrogen (N): 9.5 % (= 117 g N/L) (Nitric nitrogen: 4.8 % (= 59 g N/L);
- Ammoniacal nitrogen: 4.7 % (= 58 g N/L);
- Water-soluble phosphorus pentoxide (P₂O₅): 3.2 % (= 39 g P₂O₅/L);
- Water-soluble potassium oxide (K₂O): 3.9 % (= 48 g K₂O/L);
- Water-soluble boron (B): 0.08 % (= 1.0 g B/L);
- Water-soluble copper (Cu): 0.04 % chelated by EDTA (= 0.5 g Cu/L);
- Water-soluble iron (Fe): 0.08 % chelated by DTPA (= 1.0 g Fe/L);
- Water-soluble manganese (Mn): 0.10 % chelated by EDTA (= 1.2 g Mn/L);
- Water-soluble molybdenum (Mo): 0.008 % chelated by EDTA (= 0.1 g Mo/L);
- Water-soluble zinc (Zn): 0.08 % chelated by EDTA (= 1.0 g Zn/L).

**Packaging**
- **Standard:**
  - 5 L (box: 4 x 5 L)
- **On demand:**
  - 60 L
  - 120 L
  - 800 L
**Chelal Alga L**

**Properties:**
Solution of marine plant extracts. Chelal® Alga L acts as a supplement to our nutritional programs to maximize profitability, improving productivity as well in quantity and quality. Chelal® Alga L is a natural stimulant used in combination with the essential nutrients (macro and micro elements). This product also strengthens the natural defense system of the plants “Systemic Acquired Resistance” (SAR).

**Specifications:**
Solution of marine plant extract enriched with potassium (derived from Ascophyllum nodosum); Water-soluble potassium oxide (K₂O): 4.5 %.

**Packaging**
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)

**On demand:**
- 60 L
- 120 L
- 800 L

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**Chelal AZ**

**Properties:**
Chelal® AZ is a mixture of chelated Mo, chelated Zn and marine plant extract, making it a product rich in nutritional substances, anti-oxidants, carbohydrates, amino acids and natural growth stimulators. It improves the natural acquired resistance (SAR) of the plant, which will stimulate the plant to activate his auto defence mechanism against the attacks of pathogens.

**Specifications:**
Marine plant extract 17.5 % (=205 g/L Ascophyllum nodosum); Water-soluble molybdenum (Mo): 0.2 % (= 2.3 g Mo/L); Water-soluble zinc (Zn): 1.8 % (= 21 g Zn/L); Zinc (Zn): chelated by DTPA, EDTA and HEEDTA: 1.8 % (= 21 g Zn/L).

**Packaging**
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)

**On demand:**
- 60 L
- 120 L
- 800 L

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**Hyberol**

**Properties:**
Hyberol is a foliar fertilizer which contains chelated boron, chelated zinc, algae extract, natural sugars and a little bit of nitrogen. Hyberol is designed for postharvest treatments, but can also be used during the initial stages of the plant development before bloom.

**Specifications:**
Marine plant extract (4.8 % or 60 g/L). water-soluble boron (B): 1.8 % (= 22 g B/L); Water-soluble zinc (Zn): 2.8 % chelated by DTPA, EDTA and HEEDTA (= 35 g Zn/L).

**Packaging**
- 1 L (box: 12 x 1 L)
- 5 L (box: 4 x 5 L)

**On demand:**
- 60 L
- 120 L
- 800 L

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**Magivert Bio**

**Properties:**
Magivert Bio is a foliar magnesium fertilizer enriched in Boron and Molybdenum. Magivert Bio stimulates and maintains photosynthesis at a high level. The Molybdenum will improve the nitrogen assimilation by the plant and boron assures a correct cell division, improving flower and fruit quality.

**Specifications:**
EC FERTILISER: Magnesium sulphate with boron (B) and molybdenum (Mo). Water-soluble magnesium oxide (MgO): 15.2 %; Water-soluble sulphur trioxide (SO₃): 29.8 %; Water-soluble boron (B): 0.85 %; Water-soluble molybdenum (Mo): 0.08 % chelated by EDTA.

**Packaging**
- 5 kg (box: 4 x 5 kg)
Viener Zn

Properties:
Viener Zn is a product specially developed for seed treatment. The product contains various forms of Zn, with the aim of gradually releasing Zink to the young plant, from germination up to young plants, thus stimulating juvenile growth, without toxicity.

Specifications:
EC FERTILISER: Zinc fertiliser suspension (oxide, DTPA, EDTA, HEEDTA). Total zinc (Zn): 26 %; Water-soluble zinc (Zn): 1,4 % chelated by DTPA, EDTA and HEEDTA.

Packaging
Standard:
- 5 kg (box: 4 x 5 kg)

On demand:
- 60 L
- 120 L
- 800 L
OUR Factory