



SQM

# A range of chelated water-soluble micronutrients to be applied in nutritional programs



Fe

Mn

Zn

Cu

## Ultrasol<sup>®</sup>/micro Rexene<sup>®</sup>



Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> is a range of stable, water-soluble and non-dusting high quality chelates of copper (Cu), iron (Fe), manganese (Mn) and zinc (Zn).



For the correction and prevention of micronutrient deficiencies in horticultural and agricultural crops through fertigation or foliar applications.



The high quality chelates, used to fully chelate Cu, Fe, Mn, and Zn, ensure that these micronutrients remain available for plant uptake, by prevention of precipitation from the nutrient solution or fixation in the soil.



Cu, Mn and Zn are fully chelated with EDTA, which is stable in a wide range of pH levels. Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> Fe brands offer a wide choice for the best iron chelate to use in a diversity of cultivation systems and soil types, ranging from hydroponic systems to fertigation of soil grown crops, matching the expected pH range of the nutrient solution in the root zone.

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> FeXQ58

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> FeQ48

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> FeD12

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> FeE13

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> FeD6

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> Cu15

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> Mn13

Ultrasol<sup>®</sup>/micro  
Rexene<sup>®</sup> Zn15

Rexene<sup>®</sup> and the Nouryon device are trademarks of the Nouryon group of companies.

SQM EUROPE N.V.  
Houtdok-Noordkaai 25a  
2030 Antwerpen, Belgium

Tel: +32 3 203 97 00  
E-mail: spn-emea@sqm.com

sqmnutrition.com



**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeXQ58**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeXQ58 is a stable, water-soluble and non-dusting mixture of Fe HBED and Fe EDDHA chelated iron.
- The HBED and EDDHA chelates protect the Fe from fixation in the soil, keeping it available for uptake by the plant. This is especially important in alkaline and calcareous conditions where correction or prevention of iron deficiency is needed to optimize plant yield and quality.
- The high quality chelates make the Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeXQ58 a good choice to extend iron availability for a wide range of vegetables, flowers and tree crops.
- Typical iron (Fe) content of 6,0%, of which 4,0% as Fe-HBED ortho-ortho isomer and 1,8% as Fe-EDDHA ortho-ortho isomer.

**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeQ48**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeQ48 is a stable, water-soluble and non-dusting iron EDDHA chelate.
- Contains typically 6% Fe, of which 4,8% is EDDHA chelated by the ortho-ortho isomer as the most effective isomer in terms of binding strength.
- Developed for the correction and prevention of iron deficiency in a wide range of agricultural and horticultural crops, particularly in alkaline and calcareous soils.

**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeD12**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeD12 is a stable, water-soluble iron-DTPA chelate, developed for high performance in hydroponic systems, but also suitable for soil and foliar applications.
- Fe-DTPA has a higher pH stability than Fe-EDTA, which makes it a preferred source in hydroponic systems.
- Typical content of iron (Fe) is 11,6%, fully chelated by DTPA.

**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeE13**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeE13 is a stable, water-soluble iron EDTA chelate.
- Developed for usage against iron deficiency and can be applied by foliar feeding or by soil application and in hydroponic systems. Soil application is only recommended when soil pH is below 6,5.
- Typical content of iron (Fe) is 13,3%, fully chelated by EDTA.

**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeD6**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> FeD6 is a stable, liquid source of iron-DTPA chelate developed for prevention of iron deficiency, in a wide range of applications.
- Recommended for recirculated nutrient solutions: free of sodium (Na), chloride (Cl) and sulphate (SO<sub>4</sub>).
- Typical iron (Fe) content is 6,1% as fully chelated, high grade DTPA.
- Physical appearance as clear red-brown liquid with a density of 1,30 g/ml and a crystallization point lower than -10°C.
- Miscibility with water at any desired ratio.

**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> Cu15**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> Cu15 is a stable, water-soluble and non-dusting copper-EDTA chelate, meant for application to plants after diluting with water.
- Developed for usage against copper deficiency and can be applied by foliar feeding or by soil application and in hydroponic systems.
- Typical content of copper (Cu) is 15,0%, fully chelated.

**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> Mn13**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> Mn13 is a stable, water-soluble and non-dusting manganese-EDTA chelate, meant for application to plants after diluting with water.
- Developed for usage against manganese deficiency and is recommended for foliar feeding and in hydroponic systems. Application to the soil is possible, though foliar feeding is preferred.
- Typical content of manganese (Mn) is 13,0%, fully chelated.

**Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> Zn15**

- Ultrasol<sup>®</sup> micro Rexene<sup>®</sup> Zn15 is a stable, water-soluble and non-dusting zinc EDTA chelate.
- Developed for usage against zinc deficiency soils and can be applied by foliar feeding or by soil application and in hydroponic systems.
- Typical content of zinc (Zn) is 15,0%, fully chelated.

Ultrasol <sup>®</sup> micro Rexene <sup>®</sup>	Physical form	Chelating agent	Typical metal content (%)	Solubility in water (g/l) practical use	pH stability	Most common applications**
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> FeXQ58	micro-granular	HBED/EDDHA	6,0	75	3,5 - 12	S/H
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> FeQ48	micro-granular	EDDHA	6,0	50	3,5 - 12	S/H
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> FeD12	crystals	DTPA	11,6	575	1,5 - 7,5	H/F/S
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> FeE13	crystals	EDTA	13,3	90	1,5 - 6,5	F/S
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> FeD6	liquid	DTPA*	6,1	At any ratio	1,5 - 7,5	H/F/S
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> Cu15	micro-granular	EDTA	15,0	1200	1,5 - 10	F/H/S
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> Mn13	micro-granular	EDTA	13,0	800	3 - 10	F/H
Ultrasol <sup>®</sup> micro Rexene <sup>®</sup> Zn15	micro-granular	EDTA	15,0	1200	2 - 10	F/H/S

\*Na-free chelate \*\*Applications: S = Soil | F = Foliar | H= Hydroponics

**Nouryon**

**DISCLAIMER**

All information is given to the best of SQM's knowledge and is believed to be accurate. Your conditions of use and application of the suggested products and recommendations are beyond our control. There is no warranty regarding the accuracy of any given data or statements. SQM specifically disclaims any responsibility or liability relating to the use of the suggested products and recommendations and shall under no circumstances whatsoever, be liable for any special, incidental or consequential damages which may arise from such use.