MENAFERT

Product leaflet

Trace Elements
EDTA-CHELATES
SELECT 13

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Trace Elements
EDTA CHELATES – SELECT 13

MENAFERT SELECT 13 is worldwide the most common product to prevent or cure iron deficiency. It is used for fertigation in soil with modest pH levels or as a foliar fertilizer. The solubility of the standard products in the market is around 60 to 90 g/L. Additionally, most of them contain sodium.

Our new MENAFERT SELECT 13 is much more soluble up to 600 g/L and is free of sodium. This breakthrough has been developed in our lab and proven to be stable, effective and plant safe.

EDTA, short for ethylenediaminetetraacetic acid, is a chelate which protects nutrients against precipitation in a moderate pH-range (pH 4 - 6.5). It has a similar pH-range to DTPA and the biodegradable IDHA chelate. The stability constant of EDTA is moderate, though slightly less than the stability constant of DTPA chelate.

Mainly used for nourishing plants in fertigation systems, and as an ingredient for NPKs. EDTA chelates will not injure leaf tissue, which makes the product is also ideal for foliar spraying.

The MENAFERT EDTA chelates are produced using a unique patented micro-granulation process. This method guarantees a strawberry-shaped microgranule that is free flowing, dust-free and caking-free, and easily soluble.

In addition to single-element EDTA chelates, MENAFERT International also offers physical mixes (blends) or compounds (chemical mixes). For physical mixes, macro-nutrients and/or additives like amino acids and humic acids can be added. The compounds consist of different chelated or non-chelated trace elements. The end product has the same typical strawberry-shaped micro-granule, unique in the industry.

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Product characteristics

- Increased solubility of 600 g/L
- Sodium-free
- Protection of the micronutrient against precipitation in a moderate pH-range (pH 4 - 6.5)
- An unique porous micro-granule: dust free, no caking and easily soluble. Yellow / greenish.
- For fertigation, foliar and as raw material in NPK's
- Compatible with most water-soluble fertilizers

Dosing instructions | Fertigation

Kg / 1.000 l water	Iron (Fe) content	
	g / 1.000 l water | ppm	mmol / l
0.1	13	0.23
0.5	65	1.15
1.0	130	2.30

Dosing instruction | Fertigation

Crop	**Dosage in kg/ha**	**Dosage in g/tree**	**Application stage**
Strawberry	2 - 4 kg/ha		3 applications: - just before blooming (white bud-stage) - at fruit growth - after harvest
Banana	30 - 40 kg/ha	17 -22 g/unit	3 applications: - 1x: establishment stage - 2x: during intensive vegetative growth
Stone Fruit	2 - 15 kg/ha	1 - 15 g/tree	3 applications: - just after fruit setting - during intensive vegetative growth - after harvest
Citrus	20 - 30 kg/ha	40 -60 g/tree	3 - 5 applications: - just after flowering - at beginning of fruit coloring - after harvest
Vegetables Flowers	10 - 20 kg/ha		2 - 3 applications, - 4-6 leave stage - during intensive growth

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Dosing instruction | Foliar

Crop	Dosage in kg/ha	Dosage in l/ha	Application stage
Agricultural crops (e.g. cereals, rape, sugar beet, potatoes)	0.6-0.9 kg/ha	200 - 300 l water	2 - 3 applications, as of the first symptoms of chlorosis
Fruits general Preventive treatment Curative treatment	 0.3-0.4 kg/ha 0.3-0.4 kg/ha	 500-1.000 l water 500-1.000 l water	 1 application, after blooming 2 - 3 applications, as of the first symptoms of chlorosis
Vegetables Preventive treatment Curative treatment	 0.2-0.3 kg/ha 0.3-0.6 kg/ha	 500-1.000 l water 500-1.000 l water	 1 application, at the start of the generative stage 2 applications, as of the first symptoms of chlorosis

The pH in the tank should be above 4.

In the case of foliar feeding as part of a spray-mix, testing the intended spray-mix on a small area is recommended prior to commercial treatment. The mentioned indicated dosages and application stages are subject to soil and climatic conditions, influence of previous crops and other specific conditions. Exact dosages and application stages can only be given after an objective diagnostic procedure by e.g. soil, substrate and / or plant analyses.