



**PRODUCT INFO
& DATASHEET**

The *SICO*CH*EL* and *CHEL*STAR fertilizer solutions

03/2014

Sap International offers a wide range of general and specialty fertilisers a.o. trace elements, straights, NPK's (granular, crystalline, water soluble, liquids, suspensions, slow release and organic) and a range of advanced specialty fertilizers. This leaflet is designed to present a selection of chelated nutrients. Regarding our assortment of trace elements, we also offer different high quality boron formulations and molybdenum products, as well as sulphated trace elements.

Furthermore, we deliver chelated compounds and blends - tailor made if needed.

Our advanced product lines also contain a.o. calcium and magnesium derivatives, phosphite products etc.

For a complete overview of all our products please visit our website www.sico.be

	EDTA	EDDHA	IDHA	DTPA	HBED
pH-range	4 – 6.5	4 – 9	4 – 7	4-7	4 - 12
Constant stability	Moderate	Depends on percentage of ortho-ortho isomere (o-o)	Moderate	Moderate – high	high
Form	Liquid and soluble	Soluble	Liquid and soluble	Liquid and soluble	Soluble
Available products	Chelated manganese, iron, zinc, copper, calcium, magnesium, mixes : compound and physical blend.	Chelated iron with four different levels of the ortho-ortho isomer	Chelated manganese, iron, zinc, copper, calcium, magnesium, mixes : compound and physical blend.	Chelated iron in different concentrations	Chelated iron and zinc
Application	* Foliar application * Fertigation (open field and soilless) * Ingredient for WS NPK	* Fertigation (open field and soilless) * Soil injection	* Foliar application * Fertigation (open field and soilless) * Ingredient for WS NPK	* Fertigation (soilless)	* Fertigation (open field and soilless) * Soil injection
Characteristics	* Unique raspberry shaped micro granule : dust free, no caking and easily soluble * Soft for leaf tissue, which makes it ideal for foliar spraying	Unique raspberry shaped micro granule : dust free, no caking and easily soluble * Full range of products available, from 2% o-o until 4.8% o-o * In hydroponic systems often combined with DTPA, in case pH of substrate is above 7 * Ideal for calcareous soils	* Unique raspberry shaped micro granule : dust free, no caking and easily soluble * Fully bio-degradable chelating agent * Soft for leaf tissue, which makes it ideal for foliar spraying	* Unique raspberry shaped micro granule : dust free, no caking and easily soluble * The Dutch standard in hydroponics * pH range in combination with the constant stability makes it ideal for hydroponics	* Unique raspberry shaped micro granule : dust free, no caking and easily soluble * Stability constant independent from % of o-o * Long lasting effect * High resistance to UV * Limited affinity to copper : no copper accumulation * Ideal for iron sensitive crops, especially in calcareous soils

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

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SICO FERTILISERS
EVERY TIME THE RIGHT SOLUTION



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The Chelated Applications

The SICO chelated product lines (with famous brands a.o. as SICOCHEL and CHELASTAR) are suitable for different applications.

* **Foliar application**

Both EDTA and IDHA are safe for leaf tissue, making them ideal products for foliar spraying. Because of their biodegradability, IDHA chelates are the most environmentally friendly chelating agent, supporting sustainable agriculture for future generations. Calcium and magnesium are often applied as foliar fertilizers. Therefore, we also chelated these nutrients to both EDTA and IDHA.

* **Open field fertigation**

We offer four different solutions for open field fertigation. HBED and EDDHA are the most effective chelating agents in case of calcareous soils. The EDTA and IDHA chelating agents are the best solutions in case the pH is moderate. EDTA is the standard chelating agent as ingredient for water soluble NPK's. IDHA is the alternative for a more sustainable agriculture with similar agronomical effects.

* **Soilless fertigation**

For the highly demanding market of soilless fertigation we offer several solutions. DTPA, EDTA, HBED and EDDHA are suitable for this type of application. DTPA is seen as the "Dutch standard" for hydroponics. In case of a high demand of iron or in case of an increased pH, it is advised to replace a part of the iron applied as DTPA, by iron applied as HBED or EDDHA.

Unique micro-granulation process

SICOCHEL and CHELASTAR chelates are produced with a unique patented micro-granulation process. As a result, the micro granules take the shape of a raspberry. Thanks to this shape, the chelating agents are free flowing, dust free, caking-free and easily soluble.