



PRODUCT INFO
& DATASHEET

SALES RATIONALE

SALES RATIONALE FOR SICO'S "AMIX" BASED PRODUCT RANGE.

"AMIX" = SUPERIOR UNIQUE TECHNOLOGY

PRODUCTS

SICO brandnames :

Liquistar Manganese
Liquistar Magnesium
Liquistar Calcium
Liquistar Zinc
Liquistar Iron
Liquistar Copper

Liquistar Boron Liquid
Sico Humiplex
Sicophite-Amix-L
Sicophite-Amino-L
Sicogreen KTS 50 Extra

FORMULATION

These are all fully complexed foliar micronutrient formulations containing a sophisticated surfactant system that promotes efficient leaf coverage and droplet retention on even the waxiest of leaves when applied through all types of hydraulic crop sprayer.

They are compatible for tank-mixing with almost all common pesticides and a compatibility chart of over two hundred tested combinations is available. The advanced surfactant system in the Sico formulation has been shown to confer benefits upon the pesticide tank mix partner product.

The specific and particular combination of humic and fulvic acids in this unique Sico range have been demonstrated to not only promote rapid and active (as opposed to passive) uptake of the nutrients at the leaf surface, but also to increase the mobility of the metal ions following their absorption into the plant. These materials not only help to complex and transport the metal ions, but within the plant have an auxin-like effect that produces plant health increases and yield responses to these Sico products even in the absence of trace element deficiencies.

This unique Sico formulation technology also delivers Krebs and Shikimic intermediates as well as 6-carbon skeletons to reinforce plant health.

HISTORY

In Germany these products went into fully replicated field trials in 2000, and following extremely successful results, commercial introductions started in 2002. **The annual growth since then has been astronomic as the products are recognised by farmers and distributors alike for their consistent generation of a good margin over input cost whatever the season.** The German distributors use the Sico range to generate maximum crop health and yield in combination with lower levels of pesticide inputs, and using cheaper older-technology products. This approach has been highly successful and is supported by annual replicated Kiel University field trials.

We have conducted trials annually in conjunction with E.U. distributors for the last 11 years, and as a result the formulation evolved in 2002 to the current "Extra" higher surfactant formulation. Each year the standard formulation is compared with many alternatives and potential improvements, but nothing has consistently matched the existing Sico formulations for more than a single year in trials. In particular the humic and fulvic acid source and method of its inclusion are key to the unique yield and health enhancing properties of these formulations. We have been direct marketing these products exclusively since November 2005.

Amongst the major benefits of this technology are:

- Frost-proof, and will stand heating and freezing cycles unaffected.
- Storage on farm is no longer a problem.
- Low viscosity when shaken; and leaves easy to rinse residues in the container.
- High elemental loading for concentrated low-application rate products.

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SICO FERTILISERS
EVERY TIME THE RIGHT SOLUTION



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- Reduced packaging requirement.
- Does not require only highly-insoluble materials (like carbonates) to suspend successfully.
- Based on highly effective, proven materials but with the addition of inert gel materials that do not detract from the performance of the product it is derived from.

AGRONOMY

The two types of Manganese in the formulation offer both fast action and longevity from the formulation. The early uptake of the soluble Mn ions is active (rather than passive in other formulations) and once within the plant these Mn ions move rapidly to the growing point or storage body, depending on growth stage. It is this mechanism which allows the formulation to out perform other products that ostensibly deliver more Manganese per hectare, but in less bio-available forms.

The Sulphur in the formulation is very bio-available and will make a useful contribution to the overall S-nutrition of the crop.

This formulation is suitable to treat all agricultural and horticultural crop species under normal conditions.

Crops at early growth stages require only a low-dose of this very active product, and the maximum recommended dose is only likely to be required in thick crops with full ground cover and high yield potential.

TIMING

The application rate may be as little as 0.4l/Ha on a 3-leaf crop, with the maximum rate of 1l/Ha only being appropriate with full ground cover and during maximum growth periods or flowering onwards. Before flowering, and to ensure successful subsequent fertilisation, all crops will demonstrate improved yield potential when a foliar supplement of low levels of Copper and/or Manganese is applied. As with all humic based products a programme of lower rate applications demonstrates the greatest boost to plant health and yield response. Severely deficient crops are rare, but if encountered a split dose is always recommended in order to restore crop vigour, as a truly unhealthy plant is unlikely to be able to metabolise and benefit from a high rate of the element it lacks so desperately. Realistically most programmed applications in Belgium will go on at 0.5 to 0.75l/Ha, perhaps once in the autumn (0.4l/Ha) followed by 0.5 to 0.6l/Ha at GS 30, and another 0.75l/Ha at 37 to 45.

- Make Tank Mixes safer
- Make Tank mixes more reliable at reduced dose
- Make Tank mixes more reliable at lower temperature
- Reduce crop phytotoxicity of some compounds
- Extend the life IN the plant of tank-mix compounds
- Increase the contact effect from tank-mix compounds
- Improve and extend fungicides and PGR's
- Makes lower dose of trace elements more effective than alternatives
- Make Manganese more mobile within the plant.
- Have a cumulative yield benefit when used in a programme.
- Produce yield benefits on every crop, even in the absence of any measurable deficiency.
- Produce similar yield benefits every season no matter what the weather, wet or dry.
- Put profitability back into spray programmes