



**PRODUCT INFO
& DATASHEET**

SICO HA-STAR (liquid)

Contains 12.5% Humic Acid (w/w) derived from a modified potassium humate.

21/11/2017

1/ PRODUCT DESCRIPTION

SICO HA-STAR is a unique product soluble over a pH range of 2.0 to 12.0 !!

SICO HA-STAR is a unique product containing 12.5% w/w Humic acid derived from a modified potassium humate. It is made by a patented process. Contains 185g per litre humified product.

SICO HA-STAR promotes the uptake of micronutrients.

SICO HA-STAR is soluble over a pH range of 2.0 to 12.0. This unique feature allows **SICO HA-STAR** to be mixed and applied with most commercially available fertilisers and micronutrients.

Compatibility can be simply checked by: mixing each product in a clear container in the same proportion to be used in the field, agitating vigorously for at least 30 seconds and then visually observing for precipitate

2/ GENERAL USAGE RECOMMENDATIONS

A) Suggested Rates of Application :

Crop	Dose	Application & Timing
Tomato, pepper, melon, beans Cucumber & soft-fruit	1.0 – 1.5 litres per hectare	Apply by drip method, the first application after 3/5 leaves. Follow with weekly applications of the same rate until the finish of the vegetative stage of crop.
Lettuce	1.0 – 2.0 litres per hectare	Apply, dividing the dose into 2-3 applications during the crop cycle by means of irrigation.
Maize,	1.0 – 2.0 litres per hectare	Apply 2 treatments through sprinkler or central pivot. -When maize is 10-15 cm high. -Upon emergence of tassels
Wheat, barley, alfalfa	1.0 – 2.0 litres per hectare	Apply 2 treatments through sprinkler or central pivot. -At 3-5 leaf stage. -2 weeks later.
Grapes, Kiwi fruit.	0.5 – 1.0 litres per hectare	Apply 3 treatments, in 400 litres water per ha. - pre-flowering - post flowering - ripening
Stone fruit & Citrus	0.75 – 1.5 litres per hectare	Apply at least 3 times depending on early or late varieties in 1000 litres water per hectare. - January to late February, can be used with micros & NPK during irrigation or injection. - May to June - October to November
Roses, carnations and summer flowers	0.5 – 1.0 litres per hectare	Apply by drip method, the 1 st application after 3-5 true leaves. Follow with weekly applications of the same rate until the finish of the vegetative stage Use normal spray volumes.

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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B) Other Agricultural Applications :

- Soil Applied: 5 – 10 litres per hectare of **SICO HA-STAR** per application. Pre-mix in 2-4 litres water before adding to spray tank.
- Foliar Applied: 250 - 500 g per hectare of **SICO HA-STAR** per application. Pre-mix in 2-4 litres water before adding to spray tank. Apply every 3-4 weeks during season.
- Seed & Potato seed-piece: Apply 1.25 to 2.5 litres per 400 litres as a seed treatment spray or dip.
- Transplant-water applications: Apply 500 ml per 200 litres of transplant solution.
- Pre-plant in-furrow and side-dress applications: Apply 150 g per litre and add 4 litres of prepared solution per 50 litres of actual plant nutrients (eg: 250 litre/litres of 10-34-0 liquid is equivalent to 25 litres N and 85 litres P2O5, thus 105 litres, so use 8 litres solution). Band or broadcast the resulting tank mixture.

C) Turfgrass

- Tees & Greens : Apply 75 ml per 500 m2 every 3 – 4 weeks with normal fertility program.
Fairways : Apply 75 ml per 1000 m2 every 3 – 4 weeks with normal fertility program.

D) Horticultural and Ornamental Plants

- As a soil drench : Apply 100 ml per 500 litres of water every 3 – 4 weeks to fast growing succulent plants.
As a foliar spray: Apply 100 ml per 500 litres of water every 3 – 4 weeks to slow growing woody plants.

3/ WARNINGS

May be harmful if swallowed. May cause irritation of eyes, nose throat, or skin. Avoid contact with eyes, skin, or clothing. In case of contact with eyes, flush with plenty of water. Consult a physician if irritation persists.

Under the SICO HA-STAR brand we can also offer following formulations which are all containing w/v 200 g/lit NPK + 50 g/lit Humic Acid + 1 g/lit Zn

1/ 20% N + 5% HA + Zn

2/ 6% N + 20% P2O5 + 5% HA + Zn

3/ 20% K2O + 5% HA + Zn

4/ 7% N + 7% P2O5 + 7% K2O + 5% HA + Zn