



**PRODUCT INFO
& DATASHEET**

CHELASTAR® COMBI SP

*Chelate Mixture
Multi-Micronutrient Fertiliser*

SICO QUALITY: Your Key to Effectiveness

PRODUCT DESCRIPTION

1. CHEMICAL DATA:

1.1. Description: Ethylenediamine tetraacetic acid (EDTA) chelates of copper, iron, cobalt, magnesium, manganese and zinc. Also inorganic salts of boron and molybdenum.

1.2. Typical Analysis*

Element

Mg	5.0%	(partly chelated with EDTA)
Fe	4.5%	(EDTA chelated)
Mn	4.5%	(as EDTA)
Cu	1.0%	(as EDTA)
B	0.5%	(as Na salt)
Zn	1.25%	(as EDTA)
Mo	0.1%	(as Na salt)

1.3. Practical pH Stability Range: 4 - 9 (in aqueous solution).

2. STORAGE: CHELASTAR® COMBI SP will store indefinitely under normal conditions. For user convenience it is recommended that the product is stored in a dry place. Re-seal partly used packs tightly.

3. PACKAGING: In 1 kg, 2.5 kg, 5 kg, 10 kg and 25 kgs bags

4. TRANSPORT: No special precautions are necessary for transport by air, sea, rail or road.

4.1. EEC Harmonised Tariff No: 31 05 90 99

PRODUCT USE

1. FOLIAR APPLICATION

CHELASTAR® COMBI SP should be applied to the crop as a foliar spray using a conventional hydraulic spraying machine. The following points should be observed:

- The sprayer should be fitted with nozzles that produce a fine mist.
- Only sufficient spray solution should be applied to coat the leaves and stems with a film of moisture with little or no "run off".
- Spraying should be carried out on a calm day BUT NOT DURING STRONG SUNSHINE OR HIGH TEMPERATURES. The best time is late afternoon or evening.

1.1. Rates of Use and Timing

CHELASTAR® COMBI SP may be applied in one application of 3.0 kilograms per hectare but optimal results can be expected if repeat applications are used. In general foliar applications should be started early in the season as soon as there is sufficient leaf area to absorb the spray.

Crop	Rate of Use (kg/ha)	Timing
Ornamentals	0.5-1.0	As necessary during the growing season. DO NOT APPLY DURING FLOWERING.
Cereals	1.0	Early in season (GS 26).
e.g. wheat, barley	1.0	Mid season (GS 37).
millet, sorghum	1.0	At ear emergence (GS 50).

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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Rice	1.0	Before planting out. After crop is established in field.
Potatoes and other root crops	1.0	Apply three times at 2-3 week intervals after the crop meets in the rows.
Vegetables	1.0	Apply three times at 2-3 week intervals after the 5 true leaf stage and esp. during periods of rapid growth.
Fruit	1.0	Repeat the application several times in the season.
	0.5	DO NOT APPLY DURING FLOWERING.
		After fruit set (high volume).

1.2. Water volume:

The amount of **CHELASTAR® COMBI SP** to be applied should be mixed with a volume of water appropriate to the crop leaf area of the type of spraying machine being used.

Arable crops: 200-300 litres per hectare

Fruit crops: 500-1000 litres per hectare

NB. Do not exceed a solution concentrate of 0.1% (100 grams per 100 litres of water).

Small-Scale Use: For example using a knapsack sprayer. Prepare a 0.05-0.1% (0.5-1.0 gram per litre) solution and apply so as to coat the leaves and stems with a thin film of moisture with little or no run-off.

Mixing: Simply add the **CHELASTAR® COMBI SP** slowly to the spray tank whilst the contents are under agitation.

Compatibility: **CHELASTAR® COMBI SP** is compatible with all other **Chelastar** products and many herbicides, fungicides, insecticides and other crop sprays.

2. FERTIGATION: **CHELASTAR® COMBI SP** should be added periodically at a rate of 100 grams per 1000 litres of final feed solution. Frequency of addition will depend on degree of deficiency and crop response. **CHELASTAR® COMBI SP** can also be applied via drip irrigation: 300-500 g per 1000 L water every 10 days.

3. LIQUID FEEDS: In order to provide the trace element component of concentrated liquid feeds add **CHELASTAR® COMBI SP** at 1.5 - 3.0 kg per tonne.

4. COMPOSTS: **CHELASTAR® COMBI SP** should be incorporated at the following rates:

Seedling composts 20-30 g/m³

Potting composts 40-60 g/m³

Grow bags 75-115 g/m³

5. SOIL APPLICATION:

When the plants are very chlorotic and/or very sensitive and foliar application is not possible. **CHELASTAR® COMBI SP** can be applied via the soil: prepare a 0.5-2.0% solution (= 5-20 g Chelastar Combi SP/1 litre water) and apply 1 litre per square metre. On alkaline soils the effect is improved by adding 3-5 kg ammonium sulphate per 100 L solution.

6. STATUTORY CAUTION:

To be used only where there is a recognised need. Do not exceed the appropriate dose rate.

HEALTH AND SAFETY

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant Health and Safety information sheet.

TRADEMARKS

CHELASTAR® COMBI SP is a trademark of Sap International Corporation bvba