



**PRODUCT INFO
& DATASHEET**

SICO-MAGNECAL® H.G.

**Horticultural grade of Calcium Ammonium Nitrate +
Magnesium Nitrate derivative (13.5% N + 16.5% CaO + 6%MgO)**

*Fully water soluble ideal combination to supply calcium and magnesium.
(in unique pastille form) - Origin : E.U.*

1/ PRODUCT DESCRIPTION

Brand name : **Sico-Magnecal H.G.**
Chemical name : Calcium Ammonium Nitrate / Magnesium Nitrate
Chemical formula : $\text{CaNH}_4(\text{NO}_3)_3/\text{MgNO}_3$
Appearance : flakes, white/yellowish

2/ PRODUCT SPECIFICATIONS

a) Chemical composition / typical & analysis (w/w)

Total N : 13.5 % +/- 0.3%
Nitrate-N (N-NO_3) : 13.1 % +/- 0.3%
Ammoniacal-N (N-NH_4) : 0.4% +/- 0.1%
CaO : 16.5% +/- 0.5%
Ca : 11.8% +/- 0.5%
MgO : 6.0% +/- 0.3%
Mg : 3.8% +/- 0.3%
Chloride (Cl) : < 0.015%

b) Physical properties

Density : 0.9 +/- 0.05 g/cm³
pH : 6.2 +/- 1 (in 1% solution) – 6.5 +/- 0.5 (in 10% solution) – 6.2 +/- 1.3 (in 5% solution)
Water insolubles : < 0.01%
Electric Conductivity (EC) : 1.1 +/- 0.2 mS/cm (in 0.1% solution)
Solubility : 2200 g/l

c) Heavy metals

Arsenic (As) : < 2 mg/kg Mercury (Hg) : < 0.01 mg/kg
Cadmium (Cd) : < 2 mg/kg Lead (Pb) : < 2 mg/kg
Chrome (Cr) : < 2 mg/kg

3/ PRODUCT CHARACTERISTICS

- Fully water-soluble product in the form of pastilles.
- Ideal combination of supplying calcium and magnesium.**
- Free of chloride, sodium and other detrimental elements for plants.
- Resistant to caking, due to its unique pastille shape.
- Used as a foliar and for fertigation purposes.
- Guarantees a quick reaction from the plant, especially when used as a foliar.

4/ USE & DOSAGE RECOMMENDATIONS - Dosing instructions / Fertigation

a) FERTIGATION

Crop	Application date	Total dosage in kg/ha
Olives, grapes	During periods of intensive plant growth and during fruit development stage.	0.1-0.2% (w/v)
Citrus, banana, fruit (apple), strawberry, flowers (open field)	During periods of intensive plant growth and during fruit development stage.	0.03-0.15% (w/v)

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

SAP INTERNATIONAL CORPORATION bv Krekelenberg 83, B-2980 Zoersel, Belgium
Tel. +32-3-309.06.51 Email : info@sico.be Website : www.sico.be



**PRODUCT INFO
& DATASHEET**

Tomato, cucumber	Throughout the crop cycle, especially during fruit development stage.	0.05-0.07% (w/v)
------------------	---	------------------

b) FOLIAR

Crop	Application date	Concentration of spray solution.
Olives, grapes	3-5 applications : - as of the beginning of fruit setting - during intensive plant growth	0.6-0.8% (w/v) 0.6-0.8% (w/v)
Citrus, banana, fruit (apple)	1-2 applications : - as of the end of flowering/beginning of fruit setting - during intensive plant growth	0.3-1.0% (w/v) 0.3-1.0% (w/v)
Strawberry	1-2 applications : - at the beginning of fruit setting	0.3-0.4% (w/v)
Cabbage, cauliflower	3-4 applications : - as of 5 weeks after planting, weekly interval	0.5-0.8% (w/v)
Carrot, onion	2-3 applications : - as of beginning of intensive growth, 7 to 10 days interval	0.3-0.5% (w/v)
Flowers, open field	3-5 applications : - as of the beginning of intensive plant growth, 10-14 days interval	0.5-1.0% (w/v)
Tomato, cucumber	3-5 applications : - as of the beginning of intensive growth, 10-14 days interval	0.5-0.8% (w/v)

* Depending on amount of water used.

The above mentioned indicated dosage 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.

5/ COMPATIBILITY

SICO MAGNECAL HG is compatible with pesticides, though it is advisable to confirm compatibility of your intended spray-mix by preparing a sample of the spray materials at their recommended concentrations in order to rule out the possibility of a detrimental cross reaction. This mixture should be sprayed onto small area prior to commercial treatment, in order to assess whether an adverse effect occurs.

6/ PACKING

Available in big bags of 1000 kg, 20 MT/20ft container or 25 kg white neutral pe bags with color label, on pallets, 22.5 MT/20ft.

