



**PRODUCT INFO
& DATASHEET**

SICO-MAGNIT[®] H.G.
Magnesium Nitrate Horticultural grade
min. 10.5% N + 15.6% MgO
(in unique pastille/flakes form) - Origin: E.U.

Revised 09/2017

1/ PRODUCT DESCRIPTION

Brand name : Sico-Magnit H.G.
 Chemical name : Magnesium Nitrate Hexahydrate
 Chemical formula : $Mg(NO_3)_2 \cdot 6H_2O$
 Appearance : white, slightly yellowish pellets (flakes/pastilles)

2/ PRODUCT SPECIFICATIONS

* Standard chemical analysis

Total Nitrogen (N) : min. 10.5 % (= typical 11 %)
 Nitric Nitrogen (N-NO₃) : min. 10.5 %
 Total Magnesium Oxide : min. 15.6 % (= 9.4 % Mg) (= typical 16 % MgO - 9.6 % Mg)

* Physical properties

Density : 0.9 g/cm³
 pH : 6.5 +/- 1.0 (in 1.0 % water solution)
 water insolubles : < 0.01 %
 solubility in water : 2.25 kg/l at 20 °C

3/ PRODUCT CHARACTERISTICS & ADVANTAGES

SICO-MAGNIT H.G. has a unique pastille form to prevent caking and is suitable for both fertigation of high tech covered crops as well as for foliar feeding.

- Fully water soluble product in form of pastilles
- Resistant to caking, due to its unique pastille shape
- Free of chloride, sodium and other detrimental elements for plants
- Used as a foliar and for fertigation purposes
- Guarantees a quick reaction from the plant, especially when used as foliar
- Compatible with most water-soluble fertilisers

4/ USE & DOSAGE RECOMMENDATIONS

General dosing instructions

G/1000 l stock solution	N-NO ₃ In g/1000 l or ppm	Mg In g/1000 l or ppm	MgO In g/1000 l or ppm
100	10.5	9.6	15.6
130	13.6	12.4	20.2
160	16.8	15.3	25.0
190	20.0	18.2	29.6
210	22.0	20.1	32.7

The table above represents the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution as well as the injection ratio.

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.

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Dosing instructions / Fertigation

Crop	Application date	Total dosage in kg/ha
Fruit trees	Just after flowering stage	100-200 kg*
Vineyards (adult table grapes)	Just after bud opening until main vegetative growth stage.	100-150 kg
Vegetables	As of start vegetative growth until beginning of fruit setting.	150-300 kg
Processing vegetables - potatoes - tomatoes	As of tuber initiation 10 days before end of tuber enlargement. As of 1 month after planting until maturation stage.	100-200 kg 150-300 kg

* Total dosage is subject to soil and climatic condition.

Dosing instructions / Foliar

Crop	Application date	Total dosage in kg/ha	Concentration of spray solution.
Fruit trees	3-4 applications: - starting just after flowering period	3-8 kg/ha*	0.5-1.5% (w/v)
Field crops : - Corn - Rape - Winter wheat - Sugar beets	1 to 2 applications: - after 5 leave stage - from vegetative growth until flowering - as of stem elongation until flowering 2 to 3 applications: - during spring time.	3-6 kg/ha 3-6 kg/ha 3-6 kg/ha 3-8 kg/ha	1.0-1.5% (w/v) 1.0-1.5% (w/v) 1.0-1.5% (w/v) 1.0-2.0% (w/v)
Citrus	2 to 4 applications: - in spring time, as growth of leaves	5-10 kg/ha	1.0-2.0% (w/v)
Olive	2 applications: - just before full flowering - 3-4 weeks after flowering	3-9 kg/ha 3-9 kg/ha	0.5-2.0% (w/v)
Vineyards: - adult table grapes	3-4 applications: - to prevent drying of the stalk, 10 days interval	3-9 kg/ha*	0.5-1.5% (w/v)
Vegetables: - Melon	2-5 applications: - at the vegetative stage until blooming of female flowers	3-10 kg/ha*	0.5-1.5% (w/v)

* Depending on amount of water used.

The above mentioned indicated dosage and application stages are subject to soil and climatic conditions, possible use of manure, 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 and plant analyses.

5/ COMPATIBILITY

SICO MAGNIT 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 1) big bags of 1000 kg, 20 MT/20ft container.
2) white neutral plastic bags of 25 kg net (with color label) on pallets of 1050 kgs, 21 MT/20ft fcl.

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