



**PRODUCT INFO  
& DATASHEET**

## SICO-MAGNIT<sup>®</sup> CRYSTALS

*Magnesium Nitrate hexahydrate, white crystals 10.7% N + 15% MgO  
Soluble fertiliser (ideal for foliar spray, fertigation etc)  
- Made in China -*

11/2023

### **1/ PRODUCT DESCRIPTION**

Brand name: Sico-Magnit Crystals  
Chemical name: Magnesium Nitrate hexahydrate NPK 10.7-0-0 + 15 MgO  
Chemical formula:  $Mg(NO_3)_2 \cdot 6H_2O$   
Formula weight: 256.41  
Appearance: white crystals

### **2/ CALCULATED % ANALYSIS & SPECIFICATIONS**

Average calculated % analysis	<b>SICO-MAGNIT CRYSTALS</b>	
	Standards	Test results
Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	min. 98.5 %	98.63 %
MgO	min. 15 %	15.42 %
Nitrogen (N)	min. 10.7 %	10.78 %
Water insolubles	max. 0.05 %	0.004 %
Heavy metals	max. 0.002 %	0.001 %
pH value	+/- 4	4.2

The above particulars do not release the customer from the obligation to carry out an inspection of goods received.

### **3/ USE & DOSAGE RECOMMENDATIONS**

#### **General dosing instructions**

G/1000 l stock solution	N-NO <sub>3</sub> 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.

#### **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.

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 / 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 below 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.

**4/ COMPATIBILITY**

**SICO MAGNIT** 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.

**5/ PACKING**

Packed in 25kg net wpp+pe bags, about 25 MT/20ft container (loose bags) or 24 MT/20ft container (bags on pallets)



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