



**PRODUCT INFO  
& DATASHEET**

## **SICO-MAGNIT<sup>®</sup> GRANULAR**

**Magnesium Nitrate Hexahydrate (granular) min. 10.8% N + 15.4% MgO**

*Soluble fertiliser (ideal for foliar spray, fertigation etc)*

*- Made in China -*

4/2021

### **1/ PRODUCT DESCRIPTION**

Brand name:	Sico-Magnit Granular
Commodity:	Magnesium Nitrate Hexahydrate (granule)
Chemical formula:	Mg(NO <sub>3</sub> ) <sub>2</sub> .6H <sub>2</sub> O
Molecular weight:	256.41
Properties & Appearance:	100% water soluble Nitrogen and Magnesium fertiliser, free flowing, white round granular which dissolves quickly in water

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

Technical Specification	<b>SICO-MAGNIT GRANULAR</b>	
	Standard	Test result
Appearance	Granular	
Assay/Purity	min. 98 %	98.0 %
Magnesium Oxide (MgO)	min. 15.4 %	15.42 %
Nitrogen (N)	min. 10.8 %	10.83 %
Water insolubles	max. 0.05 %	0.01 %
Iron (Fe)	max. 0.001 %	0.008 %
Ph	4-7	6.0
Chloride (Cl)	max. 0.01 %	max. 0.001 %
Sodium (Na)	max. 0.001 %	max. 0.0005 %
Heavy metals (Pb)	max. 0.002 %	0.001 %
Arsenic (As)	max. 10 mg/kg	6 mg/kg
Chromium (Cr)	max. 10 mg/kg	2 mg/kg
Cadmium (Cd)	max. 10 mg/kg	3 mg/kg
Size	0.5-3 mm	

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

SICO-MAGNIT GRANULAR is a 100% water soluble and fast-effective fertiliser, used directly for fertigation application, hydroponic use, in irrigation systems or as raw material to make liquid plant nutrients and foliar fertilisers. It dissolves quickly in water without any residues, providing plants with a supply of the Nitrogen in the nitrate form and magnesium they need during most stages of growth. It is suitable for crops grown in soil as well as for soilless hydrocultures, it is virtually free from chlorides, sodium and heavy metals. It is a high efficiency environmental protection greening fertiliser.

#### **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.

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



### **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.

### **4/ COMPATIBILITY**

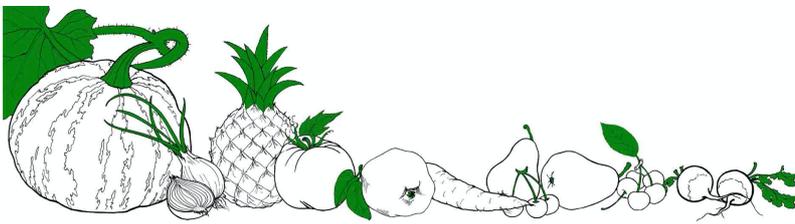
SICO MAGNIT GRANULAR is compatible with pesticides, though it is advisable to confirm compatibility of your intended spray-mix by preparing a sample of the spray materials at their recommended concentrations in order to rule out the possibility of a detrimental cross reaction. This mixture should be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

### **5/ PROTECTION & WARNING**

Operators should wear protective clothing including respirator and rubber gloves, etc. Be careful not to inhale the powder of magnesium nitrate. In the case of a fire, use water, soil or other fire extinguishing media but aqueous solution must be prevented to flow towards inflammable materials.

### **6/ PACKING**

Plastic woven bag inner with plastic bag in 25 kg/1000 kg/1250 kg or according to customer's demand.



### **7/ HANDLING & STORAGE**

Store in a ventilated and dry warehouse with roof. The package must be sealed up and protected from moisture. Avoid mixing with organic compound or sulphur during storage and transportation. Prevent the material from sunshine, rain, snow and insolation. Loading and unloading carefully.



**Sico Magnit Granular**