



Magnesium Sulfate Monohydrate

MgO – 23% | SO₃ – 46% with microelements (Zn, Mn)



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Magnesium Sulfate Monohydrate 23% MgO – a well-known and highly-valued fertilizer incorporating the core principles of fertilization, enriched by microelements. Plant nutrition with **Magnesium Sulfate Monohydrate** is the best way to supply plants with magnesium and sulfur: nutrients needed to ensure proper growth, high yields and structural quality.

Nutrients % [% m/m]:

- Water soluble magnesium oxide (MgO) 23.0
- Water soluble sulfur trioxide (SO₃) 46.0
- Microelements (Zn and Mn)

Application instruction

Magnesium Sulfate Monohydrate can be applied in the form of an independent water solution or together with urea, foliar fertilizers and appropriate pesticides (in any dose recommended by the producer). To achieve the best results we recommend application of the **Magnesium Sulfate Monohydrate** in the form of a water solution together with appropriate foliar fertilizers, e.g.:

- **ActiPlon** – crystalline fertilizers with microelements
- **ActiPol** – microelement chelates of: iron, manganese, zinc, copper, molybdenum and cobalt
- **ActiCal** – liquid calcium chelate
- **ActiBor – 150** – liquid boron fertilizer
- **Super ActiBor – 21** – crystalline boron fertilizer

When dissolving, Magnesium Sulfate Monohydrate MgO 23% increases the temperature of the solution, which enhances the effectiveness of the spray.

Preparation of a working solution

In the sprayer tank filled up to half of the capacity with water, with the mixer turned on, dissolve, one by one, **Magnesium Sulfate Monohydrate**, urea, microelement fertilizers and pesticide. The solution should be used up within several hours from its preparation. It is recommended to apply **Magnesium Sulfate Monohydrate** according to the dosage information presented in the table. The remaining components of the working solution should be applied according to the recommendations of their producers in the bottom level dose recommended.



Magnesium Sulfate Monohydrate with microelements Zn and Mn

	CROPS	NUMBER OF TREATMENTS	Recommended timing of treatment	Magnesium sulfate concentration [%]	AMOUNT OF WORKING SOLUTION [l/ha]
AGRICULTURAL CROPS	BEETROOT	2	I – 4-8 leaves II – 15-20 days after the first spray	2.5*	200-300
	CEREALS	2	I – start of tillering II – blade formation phase	2.5*	200-300
	RAPESEED	2	I – start of spring vegetation II – green bud phase (beginning)	2.5*	200-300
	POTATOES	2	I – formation of side shoots II – before flowering	2.5*	200-300
	CORN	2	I – 4-7 leaves II – 10-15 days after the first spray	2.5*	200-300
	FIELD BEANS AND PEAS	2	I – 6-8 leaves II – before start of flowering	2.5*	200-300
	LUPIN	2	I – well formed rosette II – before start of flowering	2.5*	200-300
	PASTURES AND MEADOWS	2	I – after start of spring vegetation II – after each grazing and hay harvest at the time of initial regrowth of pasture sward	2.5*	200-300
	TOBACCO	2-3	in the vegetation period, every 14 days	3	200-300
	HOP	2	before flowering and during cone formation	2	1000-3000
HORTICULTURAL CROPS	FRUIT TREES AND BUSHES	2-3	I – after flowering, then every 2 weeks, until shoot growth lasts	1	700-1000
	VINES	2-3	I – after flowering (varieties with fruit sensitive to magnesium – spray for the first time 2-4 weeks after flowering) then every 2 weeks	0.5-1.0	500-1000
	CONIFERS		In the case of needle yellowing or browning apply several sprays every 10 days until the symptoms of magnesium deficit disappear	1	300-500
	HORTICULTURAL CROPS		Select according to the plants' nutrition requirements, fertilizer recommendations, growth phase and plant condition and soil and climate conditions. Foliar application – apply every 10-14 days. Fertigation – when preparing the nutrient in tank B dissolve MAGNESIUM SULFATE, mixing intensively, and then add the remaining ingredients. Watering (outdoor) – apply every 10 days, ensuring optimum ground moisture	0.1-0.6	200-300

* You obtain a 2.5% solution by dissolving 7.5 kg of the product in 300 liters of water

Arkop

We have been building our experience in the fertilizer industry since 1992. Our goal is to manufacture fertilizers making it possible to derive the very best nature has to offer... For this reason, our extensive product range entails the latest developments in biotechnology, in particular top grade chelates (chelation level confirmed by PCBC – Polish Center for Testing and Certification).

As a result of our close long-term cooperation with scientific institutes and universities, we have manufactured proven and effective products. We constantly monitor our production process and incorporate the requisite modifications in striving to continue improving our offer and aligning it to meet customer needs and expectations.

The Arkop brand name is synonymous with high quality because of both our close cooperation with scientific institutes and universities and the innovative technology we have launched based on proprietary research and experience. As a result, all our products adhere to the highest standards of quality and environmental protection adopted in the European Union. We apply and constantly develop our integrated food quality and safety management system **ISO 22000 (HACCP)** and **ISO 9001**. As a confirmation of adherence to the most stringent requirements in this area, we have obtained the integrated management system certificate – Food Quality and Safety **PN-EN ISO 9001:2009** and **HACCP – PN-EN ISO 22000:2006**. We also have the European quality system certificate for feed additives and premixes **FAMI-QS**. Currently we work with customers from across the world.



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