



# Ultrasol<sup>®</sup> Calmag



Ultrasol<sup>®</sup> Calmag is a fully water-soluble calcium magnesium nitrate. It combines three nutrients in one product for good plant structure, increased photosynthetic capacity and rapid leaf mass development during the vegetative stage of plant growth. Ultrasol<sup>®</sup> Calmag shows a fast plant reaction because of the nutrient uptake synergy between nitrates, calcium and magnesium.

Ultrasol<sup>®</sup> is a complete range of water-soluble nutritional solutions, designed to offer an integrated solution in fertigation, starting from the plant's need per phenological phase, including both macro- and micronutrients. This contributes to an efficient nutrient absorption.



## Key advantages of **Ultrasol<sup>®</sup> Calmag**

### High purity

Ultrasol<sup>®</sup> Calmag is virtually free of chloride, sodium and heavy metals.

### Fully soluble

Ultrasol<sup>®</sup> Calmag is a free-flowing product that quickly dissolves in water.

### Nitrate nitrogen

Nitrate nitrogen is the most efficient nitrogen source for plant growth, is non-volatile and enhances the uptake of other cations (K<sup>+</sup>, Ca<sup>++</sup>, Mg<sup>++</sup>).

### No salt accumulation

Ultrasol<sup>®</sup> Calmag can be used to cover the magnesium and calcium needs of a crop without supplying sulphate or chloride.

### Convenience

Ultrasol<sup>®</sup> Calmag complements SQM's range of crop and stage specific water-soluble NPKs, allowing complete and balanced nutrition with only two products.

## Complementing NPK in fertigation

### Fertigation

Water-soluble NPKs supply necessary plant nutrients except for calcium and magnesium, which are only partially supplied. Ultrasol<sup>®</sup> Calmag has been formulated to supply these two elements where these are not available from the soil or irrigation water. Ultrasol<sup>®</sup> Calmag provides magnesium and calcium, combined with nitrate nitrogen that enhances the uptake of these two elements. A high N-NO<sub>3</sub>/N-NH<sub>4</sub> balance ensures sufficient uptake of Ca<sup>++</sup> and Mg<sup>++</sup> and avoids root degeneration, especially at high soil temperatures. Additionally, nitrogen losses by volatilization are avoided when using nitrate nitrogen. For intensive horticulture, nitrate nitrogen is the optimum nitrogen source. Ultrasol<sup>®</sup> Calmag, alternated with balanced, crop and stage specific NPKs (e.g. Ultrasol<sup>®</sup>), will ensure optimum nutrient availability.

### Foliar application

Calcium and magnesium deficiencies often occur simultaneously. Ultrasol<sup>®</sup> Calmag is an excellent way of effectively supplying additional calcium and magnesium during critical physiological or environmental conditions. Due to its low EC, the risk of burning and scorching is low, making it a suitable choice for foliar applications and enabling higher concentrations.



## Properties of **Ultrasol<sup>®</sup> Calmag**



Ask your local SQM agronomist for a specialty plant nutrition programme in accordance with your local needs and requirements.

Specifications of Ultrasol <sup>®</sup> Calmag	
Total nitrogen (N)	13,5%
Nitric nitrogen (N-NO <sub>3</sub> )	13,1%
Ammonium nitrogen (N-NH <sub>4</sub> )	0,4%
Calcium oxide (CaO)	16,7%
Magnesium oxide (MgO)	6,0%
Solubility (g/l at 20°C)	2.200
EC (1 g/l at 25°C, in mS/cm)	1,1
pH (in 1% solution)	6-7

### DISCLAIMER.

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