BIOMIN™
MAGNESIUM

Soluble Powder
Single Mineral Biomin Magnesium

GENERAL INFORMATION

Biomin™ Magnesium is an amino acid chelated mineral. The chelating agent is mainly glycine, the smallest amino acid commonly used by and found in plants. The unique formulation of **Biomin™ Magnesium** classifies it at the top of the range of all chelated minerals.

Biomin™ Magnesium is a readily bio-available plant single mineral product. The highlights of such a product include almost total absorption within a few hours after application. The chelating agent Glycine prevents the precipitation of the product and enables all the minerals to move freely inside the plant making the product highly systemic.

Biomin™ Magnesium is ideal for all crops.

ADVANTAGES + BENEFITS

Biomin™ Magnesium is a bio-available organic plant nutrient that is systemic, readily available and non-phytotoxic.

Biomin™ Magnesium is very stable in formulation and can be used on all horticultural crops at almost any stage of growth.

Biomin™ Magnesium:

1. Delivers Magnesium before flowering to reduce the incidence of early bunch stem necrosis (EBSN)
2. Reduces the incidence of bunch stem necrosis (BSN) in table and wine grapes throughout the growing season
3. Improves photosynthesis which improves plant performance in general
4. Corrects Magnesium deficiencies promptly

Biomin™ Magnesium plays an important role in increasing the Chlorophyll content of the leaves hence increasing crop performance.

Biomin™ Magnesium is wax soluble, therefore can be applied at any stage in the season.

Guaranteed Analysis:	
Dry Weight Basis %	w/w
Magnesium (Mg)	12.0
As amino acid Chelate	
Dry Weight Basis %	w/w
Nitrogen (N)	5.5
As amino acid	

Biomin™ Magnesium aids in preventing plant and fruit susceptibility to disease by increasing the overall health and mineral balance of the crop.

COMPATIBILITY

Always run a compatibility test before spraying Biomin™ Magnesium with other chemicals.

Biomin™ Magnesium is compatible with almost all fungicides and insecticides.

Biomin™ Magnesium is **INCOMPATIBLE** with Phosphorus, Calcium and Potassium foliar nutrients.

PLANT + ENVIRONMENTAL SAFETY

Biomin™ Magnesium is totally harmless to plants. Exceeding recommended rates is not recommended and unnecessary.

Biomin™ Magnesium is totally harmless to both humans and wildlife and is environmentally friendly.

CERTIFIED INPUT FOR ORGANICS bio gro NZ CERT

APPLICATION GUIDELINES

CROP	TIME OF APPLICATION		RATE OF APPLICATION
APPLES AND PEARS	1st application	1-2 weeks after fruit set	0.5 — 2.0 kg/ha
	2nd application	Onset of ripening (optional)	0.5 — 2.0 kg/ha
	3rd application	6 weeks before dormancy (post harvest)	0.5 — 2.0 kg/ha
FIELD CROPS (FLOWERS, PASTURES, GRAIN CROPS ETC.)	1st application	2-3 weeks before flowering	1.0 — 2.0 kg/ha
	2nd application	Repeat monthly or based on leaf analysis	0.5 — 2.0 kg/ha
WINE GRAPES	1st application	2-3 weeks before flowering	0.5 — 2.0 kg/ha
	2nd application	1-2 weeks before veraison (optional)	1.0 — 2.0 kg/ha
	3rd application	6 weeks before dormancy (post harvest)	1.0 — 2.0 kg/ha
KIWIFRUIT	1st application	2-3 weeks before flowering **Do not apply Magnesium after fruit set	1.0 — 2.0 kg/ha
	2nd application	6 weeks before post-harvest dormancy	1.0 — 2.0 kg/ha
STONE FRUIT AND CHERRIES	1st application	1-2 weeks after fruit set	0.5 — 1.5 kg/ha
	2nd application	6 weeks before dormancy (post harvest)	0.5 — 1.0 kg/ha
STRAWBERRY AND ALL BERRY CROPS	2-3 applications	Beginning before flowering and repeat every month or as needed	0.5 — 2.0 kg/ha
TOMATOES, CAPSICUM AND OTHER VEGETABLE CROPS	2-3 applications	Beginning before flowering and repeat every month or as needed	0.5 — 2.0 kg/ha

For information on application rates and timing for crops not listed on this brochure, please contact your local distributor or visit the RSF website at www.rd2.co.nz.

It is always advisable that a leaf sample be taken before applying fertilisers to best ascertain the levels of elements and the nutrient requirements of the crop.

FUNCTIONS OF MAGNESIUM IN PLANT NUTRITION

Magnesium is part of the chlorophyll in all green plants and essential for photosynthesis. It also helps activate many plant enzymes needed for growth. Soil minerals, organic material, fertilisers, and dolomitic limestone are sources of Magnesium for plants. However these sources can be too slow in delivering the required amounts of Magnesium to plants. Therefore foliar application of this critical element becomes paramount.

A Magnesium deficiency will exhibit itself through yellowing and interveinal chlorosis beginning in the older leaves. Plant growth becomes slow and potentially abortion of fruit can occur. This is not to be confused with a Nitrogen deficiency. Magnesium deficiency has a characterised V-shaped yellowing of the top end of the leaf. Extremely high levels of Magnesium will antagonise other ions such as Potassium and Calcium. Therefore it is important to conduct leaf analyses throughout the season to overcome such imbalances in the plant and improve overall productivity and performance of the crop.

BIOMIN®