



Reg No #B5169 Act 36 of 1947

**MagTrain** is a water soluble biological fulvic-/amino-acid chelated Magnesium (Mg) product. Both soil and leaf applications of the product is efficiently taken up and metabolized by the plant.

**Composition:**

Magnesium (Mg).....	29.5 g/kg
Nitrogen (N).....	9.75g.kg
Zinc (Zn).....	3.61g/kg
Boron (B).....	0.56 g/kg

*Amino acid chelated product.*

**Product Properties:**

S.G:	1.15 ± 0.02
pH:	3.5 ± 0.1
Appearance:	Light Brown

**Plant Stress Management™ Product**

*A Biological Equilibrium Farming Product*



## Product Characteristics

**MagTrain** is recommended as a biological organic Mg-complex that can be taken up efficiently to rapidly rectify Mg nutrient imbalances and deficiencies and improve chlorophyll formation to optimize photosynthesis and yield. In general photosynthesis and protein synthesis are improved with resulting yield and quality benefits. These are important **Plant Stress Management™** actions.

**MagTrain** is taken up very efficiently as a foliar spray or irrigation applied formulation and should be used on all crops to specifically Magnesium deficiencies and should be applied with **0.2% FulMax** as chelating, wetting and uptake enhancer.

**MagTrain** is compatible with most agrochemical products but it is **recommended that a compatibility drinking glass test be done before mixing with other chemicals.**

**DIRECTIONS FOR USE: Use only as directed. Shake well before use.**

- Do not mix **MagTrain** with highly alkaline products.
- In the case of overhead irrigation, refrain from irrigating the treated crop for at least 12 hours.
- Application concentration should never be lower than **0.5% (500 ml per 100l water) for maintenance applications** up to a maximum spray concentration of **1.5% for rectification of deficiency problems (1.5l per 100l water).**
- Spray solution water should be **buffered between pH 4.5 and 5.5.**
- Use at least **0.2% FulMax** (200ml per 100l water) in the spray mixture to enhance uptake of the nutrient through the leaf surface.
- Note in the case of crops with a thick cuticle or wax layer (Brassica's and onions), use at least 0.5% **FulMax** (500ml per 100l water).
- Preferably apply foliar spray during cool periods of the day.

**Optimal application dosage concentration based on dosage response results.**

Total tank concentration should never be lower than 0.75% (750mℓ / 100ℓ) and preferably 1.5% (1.5ℓ / 100ℓ).

**General Recommendation:**

Crop	Max rate/ha	Rate /100ℓ water	Remarks
<b>Pome Fruit:</b> Apples Pears	0.75% - 1.5% <b>MagTrain</b> When deficient, application should be done at least 2 times during season on leaves.  Add 100 - 200 mℓ/100ℓ <b>FulMax</b> to improve uptake and efficiency.	750mℓ - 1.5ℓ <b>MagTrain</b> plus 100mℓ <b>FulMax</b> /100 ℓ tank solution	Apply as a medium to low volume (500ℓ -1000 ℓ) foliar spray in a regular program commencing during spring (after bud break). First application 2 weeks after first flush with 14 to 21 day intervals up to 3 weeks before harvest. <b>50% wetting sufficient.</b> <b>Note restrictions for use on apples and pears.</b>
<b>Stone Fruit:</b> Apricots, Peaches, Plums	0.75% - 1.5% <b>MagTrain</b> When deficient, application should be done at least 2 times during season  Add 100 - 200 mℓ/100ℓ <b>FulMax</b> to improve uptake and efficiency.	750mℓ - 1.5ℓ <b>MagTrain</b> plus 100mℓ <b>FulMax</b> /100 ℓ tank solution	Apply as a medium to low volume (500ℓ -1000 ℓ) foliar spray. First application between flowering and fruit set. Last application no later than veraison for tablegrapes and during the lag phase (berry is pea size) for wine grapes.
<b>Sub-Tropical Fruit:</b> Mango, Avocado, Macadamia, Pecan, Bananas, Litchis			
<b>Citrus:</b>			
<b>Grapes:</b> Table grapes Wine grapes	0.75% - 1.5% <b>MagTrain</b> When deficient, application should be done at least 2 times during season  Add 100 - 200 mℓ/100ℓ <b>FulMax</b> to improve uptake and efficiency.	750mℓ - 1.5ℓ <b>MagTrain</b> plus 100mℓ <b>FulMax</b> /100 ℓ tank solution	Apply as a medium to low volume (500ℓ -1000 ℓ) foliar spray. First application between flowering and fruit set. Last application no later than veraison for tablegrapes and during the lag phase (berry is pea size) for wine grapes.
<b>Root Vegetable:</b> Potatoes Sweet Potato	0.75% - 1.5% <b>MagTrain</b>  Add 100 - 200 mℓ/100ℓ <b>FulMax</b> to improve uptake and efficiency.	750mℓ - 1.5ℓ <b>MagTrain</b> plus 100mℓ <b>FulMax</b> /100 ℓ tank solution.	Apply as a medium to low volume (100ℓ- 250ℓ) foliar spray in a regular program commencing 2 weeks after germination or from 4 leaf stage onwards. Apply at least once every 14 days during the growing season.
<b>Other Vegetables:</b> Tomatoes, Peppers			
<b>Grain:</b> Wheat Maize Canola Oats Lucerne Beans Soybeans	0.75% - 1.5% <b>MagTrain</b>  Add 100 - 200 mℓ/100ℓ <b>FulMax</b> to improve uptake and efficiency	750mℓ - 1.5ℓ <b>MagTrain</b> plus 100mℓ <b>FulMax</b> /100 ℓ tank solution.	First application 2-3 weeks after germination (4-5 leaf stage). Follow up application at flag leaf stage or 8-10 leave stage (if possible).

- Due to the variation of soil and soil types from area to area, a full recommendation will only be possible once a **soil analysis and 1:2 water extract** analysis has been done.
- Recommendations are also based on requirements for different crop types.

Contact your **Agrilibrum** representative to obtain a crop specific Plant Stress Management™ recommendation.