

# MagTrain

Plant Stress Management™  
Reg No: K6777 Act 36 of 1947



AFRI COMPLIANCE  
CERTIFICATION NO:  
AC/P/2018/143

We confirm that Agrilibrum's Manufacturing Plant and Product range conforms to the standards as set down by Afri Compliance Agricultural enhancement product protocols and is certified in terms of:

- ✔ Good manufacturing practices
- ✔ Quality assurance and traceability
- ✔ Good corporate governance
- ✔ Risk management and Bio Security

MANUFACTURED IN SOUTH AFRICA

**MagTrain** is recommended as a biological organic Mg-complex that is effectively absorbed by the plant to rectify Mg nutrient imbalances and deficiencies and improve chlorophyll formation to optimize photosynthesis and yield. **MagTrain** contains specific Amino Acids for chelating cat ions for optimal penetration and mobility of the nutrients in the plant.

### Product Characteristics

**MagTrain** contains Boron which is essential in optimizing cell wall and membrane structure and strength as well as cell elongation and growth particularly in association with auxin formation and root growth.

**MagTrain** is taken up very efficiently as a foliar spray or irrigation applied formulation and should be used on all crops specifically with Magnesium deficiencies

### Composition:

<b>Magnesium (Mg)</b>	29.5 g/kg
<b>Nitrogen (N)</b>	9.6 g/kg
<b>Zinc (Zn)</b>	3.6 g/kg
<b>Boron(B)</b>	0.89 g/kg
<b>Amino Acids</b>	6.5%

### Product Properties:

<b>S.G:</b>	1.15 ± 0.02
<b>pH:</b>	3.7 ± 0.1
<b>Appearance:</b>	Light Brown

### Storage

**Storage temperature:** 13°C - 25°C.  
**Store in a cool dry area**  
**Do not store in direct sunlight.**

### DIRECTIONS FOR USE: Shake well before use.

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

Do not mix **MagTrain** with highly alkaline products.

**Application concentration 0.5% to 1.5 % (500mℓ to 1.5ℓ/100 ℓ water).**

Application concentrations should not be lower than 0.5% for maintenance applications and should not exceed the maximum of 1.5% for rectification of deficiency problems.

Spray solution water should be buffered between pH 4.5 and 5.5.

Apply foliar spray during cool periods of the day.  
Do not apply to wilted plants/leaves.  
In the case of overhead irrigation, refrain from irrigating the treated crop for at least 12 hours.

**Use FulMax (0.1%, 100mℓ/100ℓ water)** in the spray mixture as wetter/spreader/re-wetter to ensure efficient uptake of the nutrients through the leaf surface.



Agrilibrum is a member of FERTASA and is certified for compliance in terms of set standards audited by Afri Compliance as stipulated in the FERTASA code of conduct.

**Certificate Number: FERT-2018-08**

Whilst every care is taken during the manufacturing of this product no responsibility can be taken by the manufacturer for any damage, loss or any other result due to the use of this product.

**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	
<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.



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