



# agrichem



## ACTIVIST MAG-FLO®

### 25% Magnesium, 1.7% Nitrogen & Trace Elements

A high analysis, trace element activated source of magnesium for the correction and prevention of magnesium deficiencies



### Benefits of Activist Mag-Flo™

- ✓ Incorporates Agrichem's Activist Technology delivering both a rapid uptake profile as well as a residual effect, whilst maintaining plant safety
- ✓ Contains a range of trace elements that effectively 'activate' the uptake of magnesium
- ✓ enhanced uptake means lower application rates and less wastage
- ✓ Micro-fine particles ensure even coverage and effective plant uptake
- ✓ A high analysis product reduces quantity of product needed and saves on freight costs
- ✓ Free flowing formulation makes it easy to decant into spray equipment, mixing tanks and irrigation
- ✓ Can be applied with a wide range of other agricultural chemicals, reducing the number of spray applications needed

**THE ROLE OF MAGNESIUM:** Magnesium forms an essential part of chlorophyll structure. This is essential for photosynthesis and therefore most other plant functions, particularly the uptake and mobilisation of other plant nutrients, specifically phosphorus. Magnesium is very mobile in the plant and deficiencies are seen in the old leaves with inconsistent chlorosis.

Magnesium is an essential part of the ATP activation process that helps in energy storage in cell catalysing various enzyme systems that regulate metabolic processes. Magnesium deficiencies lead to abnormal growth patterns associated with reduced yield and quality.

**THE ROLE OF TRACE ELEMENT'S, Calcium, Iron, Manganese & Zinc:** The complex interaction between magnesium and these key trace elements, specifically Iron, Manganese and Zinc, are often encountered by growers which commonly find identifying the nutrient deficiency responsible for leaf yellowing and chlorotic symptoms difficult.

Calcium is present in Activist MAG-FLO, as the presence of calcium in a magnesium containing fertiliser significantly improves the uptake of magnesium due to the important calcium to magnesium ratio within plants. Calcium is also important in the integrity of cell walls, and the protection against disease.

**Activist MAG-FLO is a high analysis Magnesium product that contains a range of complementary micronutrients, that have proven to be the precursors for critical enzymes responsible for effectively 'ACTIVATING' Magnesium for effective plant uptake and growth.**

### MAGNESIUM DEFICIENCY

Common signs of magnesium deficiency are:

- Strong yellowing between main leaf veins
- Old leaves are affected first
- Stunted growth
- Clear borders can be seen between yellowing parts of leaf



Magnesium deficiency in grape vines



Magnesium deficiency in tomato



Magnesium deficiency in citrus

## Product Characteristics


**Specific Gravity:** 1.37 **Colour:** Beige suspension

Analysis	Australia (w/v%)	International (w/w%)
Magnesium (Mg)	25.0	18.0
Nitrogen (N)	1.7	1.2
Calcium (Ca)	0.22	0.16
Iron (Fe)	0.21	0.15
Manganese (Mn)	0.15	0.11
Zinc (Zn)	0.15	0.11

## Directions for use

 <b>Foliar Spray</b>	 <b>Fertigation</b>	 <b>Aerial</b>
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CROP	RATE / ha	MIN DILUTION*	COMMENTS
AVOCADOS	3.5 – 4 L	1 : 150	Apply during spring and summer flush
BANANAS	1.5 - 7 L	1 : 25	Repeat applications where magnesium levels are low
CANOLA	1.5 - 3 L	1 : 15	Apply as required from 5 leaf stage
CEREALS	1.5 - 3 L	1 : 20	Early tillering to jointing stage
CITRUS	2 - 3 L	1 : 250	2 applications: spring flush and autumn flush
KIWIFRUIT AND OLIVES	4 - 8 L	1 : 125	Apply during spring and summer flush
PINEAPPLES	3 – 5 L	1 : 125	Apply to correct magnesium deficiency
POME & STONE FRUIT	3 - 4 L 5 L	1 : 150	3 sprays needed: at petal fall & at 14 day intervals thereafter. Post harvest, but before leaf drop
POTATOES	3 L	1 : 50	1 week after 100% emergence & again 14 days later. To improve dry matter, also apply during bulking
SOYA BEANS	2 - 3 L	1 : 20	Apply at 6 true leaf stage
STRAWBERRIES	5 L	1 : 100	Apply 10 – 14 days after transplanting and then 1 – 2 applications during vegetative growth phase depending on crop requirement
TROPICAL FRUIT	3 – 5 L	1 : 150	Apply at least 2 applications during vegetative growth phase and one post-harvest
TURF Fairways	35 - 40 L 350 - 400 ml / 100 m <sup>2</sup>	1 : 10	Where magnesium requirements are high, apply to fairways and irrigate well to eliminate residues. Dry leaf analysis of healthy turf should contain mg levels between 0.1 - 0.5% on couch grass and 0.25 - 0.3% on bent grass.
VEGETABLES	3 - 5 L	1 : 100	10-14 days after transplanting or emergence and then again 7 - 10 day intervals depending on severity of deficiency. On cucurbits minimum spray dilution is 1:30
VINES - foliar Table grapes) Wine grapes) GRAPE STALK NECROSIS (GRAPE SHRIVEL)	2.5 - 4 L  3 – 5 L	1 : 70	3 applications needed: shoots 10cm, flower buds separated and fruit set. For table grapes, last application should be 1 month prior to harvest. Post harvest : apply 4 – 5L/ha For necrosis, apply 3 sprays of 3 – 5L/ha at pea-sized berries, veraison and 1 month prior to harvest.

 **MINIMUM DILUTION : A dilution of 1 : 100 means 1 part product : 100 parts water.**  
In hot weather, use the higher dilution rates.



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