



GROCAL[®] MGB TURF

17% Calcium, 10% Nitrogen, 4% Magnesium, 0.1% Boron plus trace elements

High analysis calcium and highly soluble sulphate-free solution with added magnesium, boron and nitrogen for correction of deficiencies within turfgrass to maintain healthy growth.



Benefits of Grocal MGB[®] Turf

- ✓ Enhanced turfgrass health and firmness through improved cell strength and structure
- ✓ Added Magnesium to improve green colour
- ✓ Premixed in carefully controlled ratios so the turfgrass receives key plant tissue elements for health, strength, colour and growth
- ✓ Reduces the negative effects of sodium
- ✓ Completely soluble and plant available delivering the required amount of nutrient with low application rates
- ✓ Can be applied with a wide range of other products, reducing the number of spray applications needed

THE ROLE OF CALCIUM: Calcium is critical for the strength and integrity of cell walls. It plays an important role in cell division and growth development, especially of root systems. Without available calcium, a healthy and abundant rootmass cannot develop. Calcium also protects plant cells from toxins, strengthening tissue to reduce the negative effects of accumulating sodium. Trace amounts of Boron within the formulation aid in calcium uptake and utilisation within the plant.

CALCIUM DEFICIENCY: Calcium has poor mobility. Poor unthrifty root systems often result. Turfgrass is significantly weakened, potentially allowing cells to be infected by disease pathogens. Growth and response from nitrogen applications will be limited.

THE ROLE OF MAGNESIUM: Magnesium forms an essential part of the chlorophyll cell. This is essential for photosynthesis and therefore most other plant functions. Magnesium is very mobile in the plant and deficiencies are seen in the old leaves with inconsistent chlorosis.

THE ROLE OF NITROGEN: Nitrogen is the essential building block of plant structure and is vital to turfgrass growth but can be a limiting factor in uptake of other nutrients. Nitrogen is the major building block in protein and chlorophyll. It is also essential for lipid and cytoplasm formation. Highly mobile in the plant, it is translocated and utilised in the growing tips.

The unique combination of calcium and magnesium in conjunction with added nitrogen and trace amounts of Boron, is an ideal formulation for regular application on turfgrass to ensure plant tissue levels of these key nutrients are maintained promoting turfgrass health, vigour and colour, along with increased disease resistance.

Sodium Fighter Strengthen Your Turf's Ability to Fight Sodium

Grocal MGB Turf is a high analysis and highly soluble sulphate free calcium solution that can be used in conjunction with granular calcium programs to fight the effects of the detrimental salt sodium. Sodium is often a significant component of non-potable irrigation water sources, and can build up in the soil and plant tissue over time. Sodium will weaken the turfgrass reducing its ability to withstand other pressures such as wear and disease. Calcium is the main nutritional weapon to deal with the negative effects of sodium both in the soil and plant. Significantly greater resistance to the weakening effects of applied sodium will result from using Grocal MGB Turfgrass as a regular foliar or soil drench application in conjunction with an appropriate granular calcium amendment program.

The high analysis of 17% Calcium provides more 'bang for your buck' compared to other liquid calcium products on the market.

Its high solubility means the calcium is available to fight the negative effects of irrigation applied sodium.

Product Characteristics

Specific Gravity: 1.51 **Colour:** Clear emerald


Analysis	Australia (w/v%)	International (w/w%)
Calcium (Ca)	17.0	11.3
Nitrogen (N)	10.0	6.6
Magnesium (Mg)	4.0	2.6
Boron (B)	0.1	0.07
Trace Elements		

Directions for use

Agitate contents well before dilution. Suitable for application by:

 Foliar Spray	 Fertigation
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CROP	RATE / ha	MIN DILUTION*	COMMENTS
TURF Maintenance	20L	1:10	Apply as a foliar fortnightly or as required. For bent grass under hot conditions, use 1 : 40
For sodium mitigation	40L		Apply as a soil drench to reduce the negative effects of sodium. Apply fortnightly or monthly depending on the severity of sodium problem. For soil drench applications, use a high volume of water or irrigate immediately following the application

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



agrichem®



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