

GROCAL[®] MGB

NPKS 9-0-0-0 + 16% Ca, 3% Mg
+Molybdenum + Zinc + Boron



High analysis Calcium with added Magnesium & Nitrogen for strengthening cell walls in fruit & vegetables

BENEFITS OF GROCAL[®] MGB

- Improved quality & firmness via improved cell strength.
- Added Magnesium to improve chlorophyll production and plant colour
- Premixed in balanced ratios, delivering essential nutrients at specific growth stages.
- Designed to extend the period of leaf wetness for sustained uptake of nutrients.
- Optimised Calcium to Nitrogen ration of 1.7:1.

THE IMPORTANCE OF CALCIUM

Calcium is required for the cellulose precursors in cell wall formation. It also stabilises cell membranes and protects them, an important attribute under stress conditions. In fruit crops it is required in high quantities as it is important for fruit quality and shelf life. When plants are threatened by infection, calcium combines with a protein stimulate salicylic acid (SA) production. Calcium deficiency leads to poor fruit set, blossom-end-rot, bitter pit, cell collapse and tissue death.

THE IMPORTANCE OF NITROGEN

Nitrogen forms proteins and amino acids to increase growth and crop yield. It is the essential building block of plant structure and is vital to plant growth. Nitrogen is often lost from the soil through leaching, volatilisation and microbial action. Regular, small applications help ensure efficient uptake without excessive losses.

THE IMPORTANCE OF MAGNESIUM

Magnesium forms an essential part of the chlorophyll molecule structure, crucial for photosynthesis and subsequent plant functions. Magnesium also plays a key role in the energy system of plant cells. It is highly mobile in the plant and deficiencies are seen in the old leaves with inconsistent chlorosis (yellowing).

GROCAL® MGB

CHARACTERISTICS: pH: 2.0 – 3.0; Specific Gravity: 1.50 – 1.52

AUS Analysis W/V%: 9.1% N, 15.7% Ca, 3.5% Mg, 0.00075% Mo, 0.09% Zn, 0.03% B

International Analysis W/W%: 6.1% N, 10.5% Ca, 2.3% Mg, 0.0005% Mo, 0.06% Zn, 0.02% B

APPLICATION

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 3 – 5 L/ha** in a minimum of 150 - 250 L final spray volume. Best applied at 3 – 4 true leaf, may be used at other growth stages. For maintenance, use the higher rate. Aerial application: use maximum practicable water rates.

CUT FLOWERS & ORNAMENTALS OPEN FIELD: Such as Carnations, Gypsophilla, Roses & Statice. **Foliar: 3 – 5 ml/L**, spray volume 1000L/ha. Note foliar applications may leave a coloured residue. **Fertigation: 5 – 10 L/ha**. Apply when young plants are 3- 4 true leaf, repeat across the growing season as required to maintain nutrient level.

DECIDUOUS TREE CROPS: Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 5 – 7 L/ha** in a minimum of 500 - 700L final spray volume. **Fertigation: 5 – 7 L/ha**. With first post blossom spray, continue with every second cover spray (up to 40L/ha season). Note: Avoid applications during flowering. **DO NOT apply as a foliar to stonefruits particularly apricots, nectarines and some varieties of peaches during leaf growth.** Can be applied foliar at post harvest but before leaf drop.

EVERGREEN TREE CROPS: Such as Avocado, Banana, Citrus, Macadamia, Mangoes, Lychee. **Foliar: 4 – 8 L/ha** in a minimum of 400 - 800L final spray volume. **Fertigation: 10 – 20 L/ha**. Apply monthly from flowering to end of fruit development.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins, Zucchini. **Foliar: 4 – 8 L/ha** in a minimum of 400 - 800L final spray volume. **Fertigation: 5 – 7 L/ha**. Apply at regular intervals from flowering until harvest. Fertigate regularly to replenish nutrients.

LEAFY VEGETABLES: Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 3 – 5 L/ha** in a minimum of 300 - 500L final spray volume. **Fertigation: 5 – 7 L/ha**. Apply prior to flowering with further application's at regular intervals.

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 4 – 8 L/ha** in a minimum of 400 - 800L final spray volume. **Fertigation: 5 – 7 L/ha**. Apply when sufficient leaf area present, repeat every 3 - 4 weeks. Potatoes: After emergence and during canopy closure, fertigate at bulking.

VINE and BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 3 – 5 L/ha** in a minimum of 300 - 500L final spray volume. **Fertigation: 5 – 7 L/ha**. Apply pre flower; further applications at regular intervals. **DO NOT exceed label rates or solution concentration.**

Fertigation rates are dependent on seasonal nutrient demand.

Agitate contents well prior to application.

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NOTE: The suggested rates of application of the Product are designed for typical Australian conditions and should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28°C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.