

BALANCE MCB

NPKS 11-0-0-0 + Magnesium, Calcium & Boron



Ideal for fertigation for crops requiring Calcium & magnesium with boron

BENEFITS OF BALANCE MCB

- Calcium, boron & magnesium blend in a nitrate form for enhanced foliar & fertigation treatments in horticultural crops.
- Free of chlorides, sulphate & urea. Calcium to magnesium ratio of 6:1, excellent for soils requiring more calcium.
- Boron aids in fixing of calcium in & around cell walls promoting greater plant strength.
- Provides metabolically active nitrogen in nitrate form.
- Hydroponic Tank A replacement.

THE IMPORTANCE OF NITROGEN

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 IMPORTANCE 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.

THE IMPORTANCE OF CALCIUM

Calcium is required for the cellulose precursors for 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 and is important for fruit quality and shelf life. It is also known that when plants are threatened by infection, calcium binds to a protein called calmodulin that prompts plants to manufacture salicylic acid (SA), a close chemical relative of aspirin. SA acts as a signal molecule that kicks off a series of reactions that help defend against external threats (SAR response).

THE IMPORTANCE OF BORON

Boron is needed for sugar movement within the plant, as well as formation of new cells at growing points. Boron also affects pollination and seed development.

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CHARACTERISTICS: pH: 2 – 4; Specific Gravity: 1.42 – 1.44

AUS Analysis W/W%: 11% N, 2% Mg, 12% Ca, 0.12% B.

International Analysis W/W%: 7.7% N, 1.4% Mg, 8.4% Ca, 0.08% B.

APPLICATION

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 2 – 3 L/ha** in a minimum of 60 – 90L final spray volume. **Fertigation: 7 – 15 L/ha.** Apply at 3 – 4 leaf stage, but may be used at other growth stages.

DECIDUOUS TREE CROPS: Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 2 – 5L/ha** in a minimum of 200 – 500L final spray volume. **Fertigation: 10 – 20 L/ha.** Apply at early spur burst, complete petal fall and post blossom as required. **DO NOT apply as foliar on high chill stone fruit varieties.** Dormancy spray only. Best applied through soil during growth period.

EVERGREEN TREE CROPS: Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 2 – 5L/ha** in a minimum of 200 – 500L final spray volume. **Fertigation: 15 – 30 L/ha.** Apply to recently hardened spring flush or during active growing period and post harvest.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes (field), Watermelons, Pumpkins. **Foliar: 3 – 5L/ha** in a minimum of 150 – 250L final spray volume. **Fertigation: 15 – 25 L/ha.** Apply as required to supply calcium and magnesium and overcome element deficiencies.

LEAFY VEGETABLES: Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 2 – 5L/ha** in a minimum of 200 – 500L final spray volume. **Fertigation: 15 – 25 L/ha.** Apply as required to supply calcium and magnesium and overcome element deficiencies.

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 2 – 5L/ha** in a minimum of 200 – 500L final spray volume. **Fertigation: 15 – 25 L/ha.** Apply as required to supply calcium and magnesium and overcome element deficiencies.

VINE and BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 3 – 6L/ha** in a minimum of 300 – 600L final spray volume. **Fertigation: 15 – 25 L/ha.** First application: shoots 10cm. Second application: 5% flowering. **DO NOT use foliar concentrations less than 1 : 50.**

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.