

SUPA CAL[®] MAG

NPKS 11-0-0-0, 12% Calcium, 2.5% Magnesium



Readily available calcium and magnesium solution.

BENEFITS OF SUPA CAL[®] MAG

- Calcium and magnesium blend in nitrate form for effective foliar treatment and through fertigation in a number of horticultural crops.
- Free of chlorides, sulphate and urea with an ideal Ca/Mg ratio.
- Ideal for soil amendments to open soil structure and displace sodium.
- Can replace hydroponic Tank A solution.
- Improves chlorophyll and fruit set.

THE IMPORTANCE OF CALCIUM AND MAGNESIUM

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 in apples, cell collapse and tissue death.

Magnesium plays the most crucial role in chlorophyll synthesis, the green pigment that captures sun light and converts it into plant food. Magnesium mobilizes sugars and is an essential part of energy activation process that helps in the energy storage in cells catalysing various enzyme systems that regulate metabolic processes.

Magnesium deficiency results in chlorotic bands on older leaves coupled with their earlier defoliation. The leaf blade turns yellow from the margin inwards and assumes bronze colour.

THE IMPORTANCE OF NITROGEN

Nitrogen forms protein and increases the yield of all crops. It is the essential building block of plant structure and is vital to plant growth, however it does need to be in balance with the other plant elements. Nitrogen is often leached from the soil therefore regular small applications will ensure efficient uptake without excessive losses.

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CHARACTERISTICS: pH: 3.5 – 4.8 ; Specific Gravity: 1.42 – 1.44

AUS Analysis W/W%: 11.0% N, 12.0% Ca, 2.5% Mg.

International Analysis W/W%: 7.7% N, 8.4% Ca, 1.7% Mg.

APPLICATION

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar at 2 – 4 L/ha** in a minimum of 40 - 80 L final spray volume. * Canola: best applied at late cabbage stage, may be use at other stages. Other crops: Apply at 3 – 4 leaf stage. Cotton: Apply from first flowering until 14 days pre harvest.

DECIDUOUS TREE CROPS: Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. Foliar at 5 – 7 L/ha in a minimum of 500 - 700L final spray volume. **Fertigation at 10 – 15 L/ha.** Apply to newly hardened spring flush or during active growing period and post-harvest. Stone fruit: **DO NOT apply to foliage.** Best applied via soil.

EVERGREEN TREE CROPS: Such as Avocado, Citrus, Macadamia, Lychee. **Foliar at 4 – 8 L/ha** in a minimum of 600 - 1200L final spray volume. **Fertigation at 10 – 15 L/ha.** Apply to newly hardened spring flush or during active growing period and post-harvest.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins. **Foliar at 4 – 8 L/ha** in a minimum of 400 - 800L final spray volume. **Fertigation at 10 – 15 L/ha.** Apply from early vegetative stage until 14 days pre harvest.

LEAFY VEGETABLES: Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar at 3 – 5 L/ha** in a minimum of 300 - 500L final spray volume. **Fertigation at 8 – 15 L/ha.** Apply from early vegetative stage until 14 days pre harvest.

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar at 4 – 8 L/ha** in a minimum of 400 - 800L final spray volume. **Fertigation at 10 – 20 L/ha.** Foliar spray, early season or when leaf area is sufficient to intercept spray. Apply with compatible crop protection sprays.

VINE and BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar at 3 – 5 L/ha** in a minimum of 300 - 500L final spray volume. **Fertigation at 10 – 15 L/ha.** First application: shoots 10cm long. Second application: 5% flowering. Bunch finish for table grapes. **DO NOT exceed label rates or solution concentration. DO NOT spray if fruit to be harvested within one week.**

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.