

# BUDMATE®

***NPKS 5-0-0-0 + 22% Ca, 4.8% Zn,  
4.8% Mg, 0.14% B***



Bud to fruit – your nutrition mate

## **BENEFITS OF BUDMATE®**

- Highly micronised, controlled released, low salt index calcium, magnesium and zinc. Suitable for all crops.
- Pre and post bud burst nutrition that improves fruit set and quality.
- Safe to use formulation that can be used during flowering.
- Formulated in carefully controlled ratios so the crop receives the essential nutrients specific to its growth stage.
- Activated Zinc and Boron to speed pollen tube formation, pollination & fruit set.
- Highly micronised calcium, magnesium and zinc
- A premium post harvest source of essential nutrients for cell differentiation and bud development

## **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 MAGNESIUM**

Magnesium forms part of the cell walls and is also an essential part of the chlorophyll molecule. 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 IMPORTANCE OF ZINC**

Pollen tubes and shoot tips have a high requirement for zinc at the sites of protein synthesis. Zinc is involved in DNA replication in protein molecules as well as in gene expression within plants. It is not mobile and thus may require re-application in crops with a high zinc requirement. Deficiency shows up in new growth.

## **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: 8.0 – 9.7; Specific Gravity: 1.57 – 1.59**

**AUS Analysis W/W%: 4.8% N, 22.2% Ca, 4.8% Mg, 0.14% B, 4.8% Zn.**

**International Analysis W/W%: 3.0% N, 14.0% Ca, 3.0% Mg, 0.08% B, 3.0% Zn.**

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## APPLICATION

**BROADACRE:** Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 1.5 – 3 L/ha** in a minimum of 30 – 60L final spray volume. Foliar Spray, early tillering to jointing stage.

**DECIDUOUS TREE CROPS:** Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 4 – 7 L/ha** in a minimum of 600 – 1000L final spray volume. **Fertigation: 5 - 10 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.**

**EVERGREEN TREE CROPS:** Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 4 – 7 L/ha** in a minimum of 400 – 700L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply at flower bud break and spring flush with follow-up applications through fruit fill as required. Note: Do Not apply later than 6 weeks prior to harvest as residue may remain.

**FRUITING VEGETABLES:** Such as Capsicum, Cucurbits, Eggplant, Tomatoes (field), Watermelons, Pumpkins. **Foliar: 3 – 6 L/ha** in a minimum of 300 – 600L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply when plants are commencing flowering and repeat at 10 - 14 day intervals, or as required.

**LEAFY VEGETABLES:** Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 3 – 5L L/ha** in a minimum of 300 – 500L final spray volume. **Fertigation: 10 - 20 L/ha.** Foliar spray 10 – 14 days post transplant.

**ROOT VEGETABLES:** Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 3 - 5 L/ha** in a minimum of 300 - 500L final spray volume. **Fertigation: 10 - 20 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: 2 - 4 L/ha** in a minimum of 200 - 400L final spray volume. **Fertigation: 10 - 10 L/ha.** Apply foliar applications 1 week prior to bud formation. Follow up applications as required. Use double rate post harvest before leaf fall to improve nutrient levels prior to dormancy. **NOTE:** Best not applied to Berry fruits or grape near harvest as a foliar due to the possibility of a white stain from application and prevention of colour development.

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.