BiOSiNC CAL

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A HIGHLY CONCENTRATED FULLY WATER SOLUBLE LIQUID SUSPENSION FERTILISER CONTAINING OPTIMALLY SYNERGISTIC RATIOS OF *CALCIUM*, *BORON*, *MAGNESIUM* AND TRACE ELEMENTS TO ENSURE STRONG EARLY PLANT DEVELOPMENT AND POSITIVE GROWTH WHILST MAXIMISING CROP YIELD AND QUALITY.

MAJOR BENEFITS OF USING CALFUSION

- Easy to use free-flowing formulation compatible with a wide range of agricultural products. Versatile use for foliar, soil drench or fertigation applications.
- Readily available Calcium source essential to positive growth, vigour and crop yield, and storage enhancement available in the correct balance with the other elements in order to achieve the maximum calcium uptake by the plant.
- Accelerates seedling development through increased availability of essential nutrients from germination.
- Unique formulation designed to support the vegetative cycle ensuring strong growth and improved plant health.
- Improved plant health fungal and disease resistance.

CALCIUM DEFICIENCY IN TOMATOES

THE ROLE OF CALCIUM

Calcium is the primary building block of the cell walls and membranes without which cell division will be adversely affected, and structural stability and permeability of the cell walls will suffer. Calcium is the main transport mechanism for nutrients and boron is the placement of these nutrients in the plant.

Results show that increasing available Calcium to the crop promotes longer shelf life, and reduced bruising. Problems such as cracking, splitting, water core, bitterpit, internal browning, blossom-end rot in tomatoes and soft-bottom in melons are avoided.

CALCIUM DEFICIENCY

Many crops display deficiencies in Calcium due to a general lack of mobility of the nutrient and also following periods of leaf growth or during hot, dry spells when the plant has experienced high levels of stress.

SYMPTOMS OF CALCIUM DEFICIENCY

- Crinkle, Cracking and Splitting
- Lenticel Rupture
- Blossom-end rot in tomatoes
- Internal Browning and internal Rust Spot
- Bitterpit
- Tip Burn

NOTE

- All suggested application rates are for typical Australian conditions, and should be used as guidelines only. Individual conditions; climate, water quality, soil type and application practices may differ necessitating corrections to ensure optimum results.
- Ideally, brix or leaf tests should be conducted on a regular basis to determine plant nutrient levels at each growth stage. It is highly recommended to conduct soil tests at least once a year.
- Avoid application under extreme weather conditions; temperatures over 28oC, high humidity, frost or rain. - Apply using a minimum of at least the labelled dilution rate to avoid potential leaf burn.
- It is advisable, when applying for the first time or in conjunction with other products, to spray an initial small test area for observation before general application

PRODUCT CHARACTERISTICS

Specific Gravity: ~1.50 Colour: Green

AUSTRALIA

Analysis	Weight/Volume Percent (w/v)%
Calcium (Ca)	17
Nitrogen (N)	15.6
Magnesium (Mg)	1.8
Boron (B)	0.08
Zinc (Zn)	0.5
Iron (Fe)	0.2
Manganese (Mn)	0.1
Copper (Cu)	0.08
Molybdenum (Mo)	0.0001

INTERNATIONAL

Analysis	Weight/Volume Percent (w/v)%
Calcium (CaO)	23.5
Nitrogen (N)	15.6
Magnesium (MgO)	3
Boron (B)	0.08
Zinc (Zn)	0.5
Iron (Fe)	0.2
Manganese (Mn)	0.1
Copper (Cu)	0.08
Molybdenum (Mo)	0.0001

DIRECTIONS FOR USE

CROP	RATE / ha	MIN DILUTION	CONDITION CONTROLLED	COMMENTS
APPLES	3.5 - 5.0	1 : 150	Bitter Pit	5 Applications starting at petal fall. Combine with cover sprays.
AVOCADOS	4.0 – 8.5	1: 150	Pulp Spot	Multiple applications.
CABBAGE, CAULIFLOWER, LETTUCE, ENDIVE	3.5 – 5.0	1: 150	Tip Burn	4 – 6 applications starting shortly before head formation.
CHINESE CABBAGE	2.5 – 5.0	1: 150	Tip Burn	2 - 4 applications per season.
BROCCOLI	3.5 – 5.0	1: 150	Brown Head	4 – 6 applications starting shortly before bead formation.
BRUSSELS SPROUTS	4.0 – 8.5	1: 150	Internal Browning	Multiple applications.
CELERY, CHICORY	3.5 – 5.0	1: 150	Black Heart	Weekly applications starting before black heart symptoms arise.
CHERRIES, PLUMS	3.5 – 6.0	1: 150	Cracking	3 – 4 applications starting 6 – 8 weeks before harvest.
COTTON	6.0	1: 100	Square Shedding	3 applications between 5 – 7 leaf stage and flowering.
CUCUMBERS, MELONS, PEPPERS, TOMATOES	1.5 – 3.5	1: 300	Blossom End Rot	6 – 12 applications during periods of heat stress.
POTATOES	2.5 – 5.0	1: 200	Internal Brown Spot	Multiple applications during periods of heat stress.
STRAWBERRIES AND OTHER BERRIES	6.0	1: 100	Increased fruit firmness	3 applications in conjunction with last pre-harvest pesticide sprays.
GRAPES	5.0 - 10	1: 100	Reduction of stem dieback and shot berry	3 – 4 applications from beginning of berry softening to maturity.
TABLE GRAPES	5.0 - 6.0	1: 100	Improved fruit finish and storability	3 – 4 applications from beginning of berry softening to maturity.
KIWI FRUIT	4.0 - 8.5	1: 100	Blossom End Rot	Multiple applications.
PASSIONFRUIT	3.5 - 6.0	1 : 50	Improved Pollination Giving Heavier Fruit	Apply as advised by your agronomist.
PEARS	4.0 - 8.5	1: 100	Superficial Scald	Multiple applications.
PEACHES, NECTARINES	3.5 - 5.0	1: 150	Improved fruit firmness	4 – 5 treatments beginning from fruit set.
ORNAMENTALS, POINSETTIA	2.5 – 4.0 equivalent	1: 50	Marginal bract necrosis	2 - 4 applications weekly, stopping at the stage of bract colourations.
ONIONS	3.0 – 5.0	1 : 80	Stunted growth	Multiple applications.
CARROTS	3.0 – 5.0	1 : 50	Prevent cracking	Apply twice at 14 day intervals, when sufficient leaf area is present.
CITRUS	3.5 – 5.0	1 : 150	Fruit cracking, creasing and dryness	5 Applications starting at petal fall. Combine with cover spray.

Fertigation rates 5 - 20L/ha for the first 4 weeks.

See label for information on Storage and Handling.

MIXING

To ensure even mixing, half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly then add the remainder of the water. Agitate thoroughly while carrying out spray operations. Reseal part-used containers immediately after use.

COMPATIBILITY

BiOSiNC CAL is compatible with a wide range of agricultural products. If unsure of tank mixes always conduct a jar test and test spray a small area of the target crop. For the latest results of compatibility please contact the retailer.