

# PanCal

**PanCal** is a ready to use liquid formulation containing calcium nitrate with additional nutrients. It is specifically designed for use as a foliar spray and contains advanced surfactants to improve adhesion and to maximise the uptake of nutrients by the plant.

**CONTAINS** Calcium with other micronutrients.

**USE** To correct calcium deficiency and to prevent disorders related to calcium shortages.

<b>ANALYSIS</b>	Calcium (Ca)	16% w/v
	Magnesium (Mg)	1.8 % w/v
	Total Nitrogen (N)	14.9% w/v
	Nitrate nitrogen	14.1% w/v
	Ammoniacal nitrogen	0.8% w/v
	Zinc (Zn)	300 ppm w/v
	Boron (B)	750 ppm w/v

## PRECAUTIONS

Avoid spraying in very strong sunlight and/or very high temperatures. If possible, apply during the evening or early morning especially if the day temperature is above 28°C. Very young foliage and crops under stress may be more susceptible to scorch. Lower doses should be applied in these circumstances and the application interval reduced accordingly.

**NOTE: Do not use outside the recommendations of this label unless advised in written form by the manufacturer. All other uses are at the risk of the user.**

## COMPATIBILITY

**PanCal** is physically compatible with many of the pesticides, growth regulators and micronutrients that are in current usage, so is available to be tank mixed when timings coincide. Unfortunately, due to formulation difference, some tank mix combinations may be found to be physically incompatible – so consult De Sangosse for the latest tank mixing recommendations.

Biological compatibility may vary depending on seasonal factors, crop conditions and growth stage as well as the tank mix partner, so no guarantees can be given. Always read the product labels and follow manufacturers instructions for all products at all times, and if there is any doubt at all, consult the manufacturers concerned

## CROP RECOMMENDATIONS

Plant tissue analysis is recommended to establish deficiencies. Please refer to individual **Crop Programs for further nutritional information. Contact your local De Sangosse Territory Manager in that regard.**

### Apples and Pears

**For reduction in bitter pit, russeting, skin splitting, cracking, rupture and bruising and to improve fruit firmness and storage potential.**

Application Rate: 5 - 10 L/ha to give a minimum of 60 litres over the season

Water Volume: High volume 500 L/ha (to incipient run-off) on small trees and increase *pro rata* for larger trees as necessary.

Concentrate spraying: do not exceed 10 L/ha.

Timing: Commence immediately post-blossom and repeat every 10-14 days up to 10-14 days before harvest. The continuity of the spray programme through the season is important, but exact rates and timings can be manipulated to suit local spraying practice and variety requirements. Avoid spraying in very high temperatures; young foliage and crops under stress are more susceptible to scorch; spray in the late morning or early evening for best results. If spraying cannot be deferred and temperatures exceed 28°C use the lower dose and a 7-day interval to give the same total amount over the season.

Adjuvants: When **PanCal** is applied by itself the use of sticker adjuvant **Union** is strongly recommended.

- Brassicas:** **For prevention of calcium and other deficiency-induced foliar disorders.**  
 Application Rate: 5.0 L/ha  
 Water Volume: At least 200 L/ha  
 Timing: Apply early in the season when the plants are growing actively and once there is sufficient foliage present to absorb the spray.
- Carrots and Root Crops (excluding potatoes): For the prevention of deficiency-induced disorders.**  
 Application Rate: 5.0 L/ha  
 Water Volume: At least 500 L/ha  
 Timing: Apply once there is sufficient foliage present to intercept the spray.  
 Repeat at 7-14 day intervals as required.
- Celery:** **To prevent Blackheart.**  
 Application Rate: 2.5 - 5.0 L/ha  
 Water Volume: 200 L/ha minimum  
 Timing: Apply at young stage and repeat at 7-14 day intervals as required.
- Citrus:** **For the prevention of calcium deficiency and other deficiency related disorders.**  
 Application rate: 5.0 – 7.5 L/ha from fruit set, up to 4 applications per season.  
 Water volume: At least 500 litres of water per hectare.  
 Use **Union** adjuvant for improved coverage and uptake at 100 ml/100 litres water.
- Grapes:** **To reduce stem die-back and premature fruit drop.**  
 Application rate: 2.5 - 5.0 L/ha  
 Water volume: At least 500 L/ha (to incipient run-off)  
 Timing: Apply at suitable intervals at 2.5 L/ha from the end of flowering.  
 Increase the rate to 5.0 L/ha and the interval to 14 days once the fruit begins to soften.
- Lettuce( Outdoor): For prevention of *tip-burn* and *heart-rot*.**  
 Application Rate: 5.0 L/ha  
 Water Volume: 200 L/ha minimum  
 Timing: Commence applications a minimum of 14 days after emergence or transplanting.  
 Apply directly onto susceptible tissue. Repeat at 7-10 day intervals as required.
- Melons and Cucurbits: For prevention of calcium and other deficiency-induced disorders.**  
 Application Rate: 5.0 L/ha  
 Water Volume: At least 500 L/ha  
 Timing: Apply up to 3 sprays after flowering, at 10-14 day intervals.
- Potatoes:** **For prevention of internal *Rust Spot* and to improve storage potential.**  
 Application Rate: 3.0 - 5.0 L/ha  
 Water: At least 500 L/ha  
 Timing: Apply at tuber initiation, with 2 further treatments at 10-14 day intervals.
- Stonefruit:** **To prevent surface deformities and improve storage potential.**  
 Application Rate: 2.5 L/ha (maintenance)  
 5.0 L/ha (deficiency)  
 Water Volume: At least 500 L/ha or *pro rata* for larger trees, to incipient run-off.  
 Do not exceed a total of 10% concentration of **Pancal** in the spray mix.  
 Timing: Apply one month prior to harvest and repeat 10-14 days later or follow the programme recommended for apples and pears.
- Strawberries:** **To improve fruit firmness and shelf life.**  
 Application rate: 2.5 L/ha (maintenance)  
 5.0 L/ha (deficiency)  
 Water Volume: 500 - 1000 L/ha  
 Timing: Apply from the start of flowering and repeat at 7-14 day intervals through to harvest, or as required.
- Tomatoes/Peppers/Tamarillos and Capsicums: To prevent *Blossom End Rot* and other deficiency-induced disorders.**  
 Application Rate: 5.0 - 10.0 L/ha  
 Water Volume: 500 L/ha (to incipient run-off)  
 Timing: Apply from fruit set, directly onto the growing fruit and continue at 7-10 day intervals during fruit development.