

# CalPac

## A Catalyst to build strength and yield.

CalPac includes soluble Calcium bound to carbohydrates, which provide a rich source of energy for plant and microbial needs. CalPac provides a catalyst for plant growth, thus reducing the energy required for Nitrogen and other nutrient utilisation within the plant.

## Benefits of CalPac

- ✓ CalPac applied by liquid injection improves soil conditions in the immediate root zone.
- ✓ In high soil salt situations CalPac can reduce the impact of Sodium in plant sap and improve Nitrogen and Phosphorus availability to the plant.
- ✓ CalPac acts as a catalyst for nutrient utilisation and can aid Nitrogen and Phosphorus conversion to proteins.
- ✓ Calcium builds plant strength; it is a growth nutrient essential for cell division and new leaf production. It enhances root development and plant strength.
- ✓ In strong healthy plants Calcium may contribute 4-5% of plant biomass making plants more resistant to disease or fungal infection. Particularly when cell wall thickness is increased from the readily available Calcium.
- ✓ CalPac contains the added benefit of Boron, this important trace element is required for plant SAP pressure and assists with the translocation of Calcium into new tissue.
- ✓ Adequate Calcium is essential for grain density and plant weight.
- ✓ Applications of CalPac pre-flowering will assist the crop to maximise yield by ensuring sufficient Calcium is present for grain development.
- ✓ The use of CalPac following stress may encourage new growth by providing an available source of the essential growth nutrient Calcium.

## Features

- ✓ Unique formulation of ionic Calcium held within soluble Carbon.
- ✓ Non salt form of soluble Calcium.
- ✓ 6.0% Calcium.
- ✓ 25.0% Carbon.
- ✓ 0.2% Boron.

## Application and Rates

<b>Liquid Injection</b>	Planting	10-12L/ha
<b>Foliar</b>	Mid tillering cereals or early vegetative cotton crops	6-8L/ha
<b>Foliar</b>	Pre flowering cereal or cotton crops	7-12L/ha

- Apply with a minimum of 5:1 water to product ratio.
- Applications following stress may encourage new growth.

## Properties

<b>pH</b>	10.5-11.5
<b>Solubility</b>	Miscible
<b>Filtration</b>	300µ
<b>Specific Gravity</b>	1.3-1.35

## In-line Filter Recommendation

<b>Micron</b>	<b>US Mesh</b>
300 micron	50

## Handling and Storage

- Do not store in direct sunlight.
- Some settling of product can occur during storage.
- Agitate prior to use to incorporate settled materials.
- Shelf life six months.
- CalPac is an alkaline product, therefore caution must be taken with regard to the pH and mixing order of tank mix partners.
- CalPac is a viscous product, centrifugal pump may be an inefficient means of volume transfer.
- Ensure all equipment is thoroughly cleaned prior to and after using CalPac.
- Refer to product Material Safety Data Sheet (MSDS) prior to use.
- MSDS's available at [www.bionutrient.com.au](http://www.bionutrient.com.au) or by telephoning BioNutrient Solutions on (07) 4671 5811.

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## Typical Analysis (w/v)

Calcium (Ca)	6.00%
Carbon (C)	25.00%
Boron (B)	0.21%