

# CalPac

## Lucerne & Pastures

A breakthrough in soluble Calcium to promote plant and animal performance.

CalPac is soluble Calcium bound to beneficial Carbon compounds and was developed to build plant density and production by improving plant uptake of other nutrients and water.

### Benefits of CalPac

- ✔ CalPac is a rich source of Calcium in soluble form.
- ✔ CalPac provides a cost effective immediate plant response where a lime program is lacking\*.
- ✔ CalPac triggers a plant response to increase sugar levels (brix) and so increase plant capacity to respond to stress from grazing, cutting or seasonal conditions.
- ✔ CalPac increases plant tissue density, as Calcium 'draws in' other nutrients to the plant and builds higher mineral density feed for animal performance.
- ✔ CalPac does not contribute to soil acidity, and will actually increase soil pH when soil applied.
- ✔ Unlike other forms of Calcium, CalPac contains more than just Calcium. CalPac is a boosted package with Carbon for energy (plant and microbial), trace elements such as Boron for improved legume performance, as well as added microbial extract to trigger soil and plant response in the field.

\* BioNutrient Solutions does not advocate CalPac in place of lime to raise soil pH. It is intended as a complimentary program to achieve both short and long term results.

### 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.
- ✔ Over 30,000ppm soluble Calcium w/w.



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### Application and Rates

#### Pasture

|               |                                   |        |
|---------------|-----------------------------------|--------|
| <b>Foliar</b> | After hard grazing                | 15L/ha |
|               | Day 7-14 after cutting or Grazing |        |

#### Lucerne Hay

|                                |                                      |                            |
|--------------------------------|--------------------------------------|----------------------------|
| <b>Foliar or Fertiligation</b> | 7 days after hard grazing or cutting | 15L/ha initial application |
|                                | Immediately after cutting            | 8L/ha per irrigation       |

- Apply with minimum 2:1 water to product ratio.
- Applications following plant stress are recommended to initiate a new growth cycle.
- CalPac is compatible with UAN. Recommended mixing order is water plus UAN followed by CalPac.

### 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 may occur during extended periods of storage.
- CalPac is an alkaline product, therefore caution must be taken with regard the pH and mixing order of tank mix partners.
- As CalPac is a viscous product, a centrifugal pump may be an inefficient means of volume transfer, particularly during colder weather. In this situation, a gear pump is preferred.
- 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.

The information in the Product Information Sheet is an indication only and BioNutrient Solutions will not be held liable for any loss, injury or damage caused whatsoever, in relation to the products performance in accordance with the benefits listed.

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### Typical Analysis (w/v)

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