

Liquid Calcium

Micronised Lime Suspension



MICROBE FRIENDLY

Liquid Calcium is a liquid suspension of micronised lime:

- Provides a microbe friendly source of calcium for improved soil and plant health
- 10 litres of Liquid Calcium provides 4.5kg of available calcium which is the same amount as is immediately available in 1 tonne of lime
- For use via irrigation or as a soil drench

Liquid Calcium is a free flowing energised liquid suspension of micronised calcium.

It provides a microbe friendly source of calcium.

Liquid Calcium is based on natural lime which is not normally available as a liquid.

Calcium

Calcium plays the leadership role in the soil, is essential for cell wall development in plants and must be present for the formation of new cells. Plants frequently struggle to access sufficient calcium to keep up with the extra cell division needed at growing points and root tips, even when soil levels appear adequate.

Calcium helps create a healthy soil environment for plants and it improves uptake of other nutrients to the plant. As the calcium content in the plant decreases, so can the protein, energy level and minerals of the plant. Calcium stimulates growth of

“soil life”, including nitrogen-fixing bacteria.

- Calcium is essential for proper cell wall development in plants.
- Calcium solubility must be maintained for crop demand.
- A soil with balanced calcium is friable and easily worked.
- When calcium and other cations are balanced, root health, nutrient availability and up- take is increased.
- Calcium reduces the toxicity effect of magnesium and soil born fungi such as root rot and phytophthora.

Many fertilisers remove calcium from the soil. This can be expensive and dangerous to soil health.

The following remove Ca (per kilogram of N applied):

Fertilisers	Calcium Removal/ kg N applied
Anhydrous ammonia (NH ₃)	removes 0.7kg of Ca
DAP (di-ammonium phosphate)	removes 0.2kg of Ca
Ammonium sulphate	removes 0.7kg of Ca
Calcium Nitrate	removes 0.4kg of Ca
UAN	removes 0.7kg of Ca
Urea	removes 0.7kg of Ca
MAP	removes 1.4kg of Ca

Supplying in-crop Ca

PACK SIZES:

20L, 200L, 1,000L

DIRECTIONS FOR USE:

Add to full fertigation tank under agitation. Ensure tank is under constant agitation during use.

This product contains solid material and may leave residue on leaves or in irrigation systems. If this is a concern then apply via soil drench.

Always agitate drum contents before use.

TYPICAL ANALYSIS:

Calcium - 32%

APPLICATION RATES:

Horticulture:

Pre-plant (injection) : 5 - 10L/ha

Via irrigation : 5 - 10L/ha

Minimum dilution rate:

1 : 50 Liquid Calcium to water

CLEAN UP PROCEDURE:

Use all mixture in spray and irrigation tanks; purge tanks and lines with clean water; flush irrigation lines. Do not return mix to original drums.

STORAGE:

Store in original container away from direct sunlight. Do not store in diluted form.

PRECAUTIONS:

Physically compatible with a wide range of commonly used products. Always mix a small quantity (jar test) and check for physical compatibility before combining with other ingredients.

Add active carbon to improve nutrient availability ...

We recommend adding active carbon in the form of humic/fulvic acid when applying nutrients to improve nutrient availability. Humates provide a charged surface for nutrients to hook onto (multiple studies world-wide).

Humates are the most active component of soil organic matter and cost-effectively provide the benefits of soil organic matter.

OFS has humic/fulvic liquids, soluble powders and pellets which are used extensively throughout Australia to improve soil health.

Humates have a complex differentiated nature which contribute to their numerous benefits. They feed soil microbes, improving soil structure and effectively hold onto nutrients and reduce leaching.

Humates have a low molecular mass and are taken up by the plant. They actively modify plant metabolism, with their effects mainly being exerted on cell membrane functions which promote nutrient uptake (Nardi 2002).



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