

# Nutri-Key Calcium Shuttle™

Calcium plays a major role in the development of plant and fruit cell walls, especially during the cell division stage.

Calcium plays a key role in protecting the cell from toxins and in slowing the ageing process. Adequate fruit calcium assists longer storage life and helps stored fruit resist a range of breakdown conditions and rots. The Shuttle™ system delivers calcium in a highly plant available chelated form. Calcium Shuttle™ offers calcium in a balanced formulation which covers the full spectrum of “background nutrition”.

## Benefits

- Sequesters chelates and delivers more nutrition than previously possible.
- Small molecular size increases chelation speed.
- Also serves as a carbohydrate-based microbial promotant.
- All of the Shuttle™ range contains “background nutrients” to avoid the problems which can occur when the correction of one shortage triggers another shortage due to the antagonistic effect of certain elements.



## PACKAGING

1 L, 5 L, 20 L, 200 L, 1000 L  
Product Code: NKCAS



# Nutri-Key Calcium Shuttle™

## Application Rates

Foliar: (Minimum Dilution 1:100):  
 Small Crops, Turf & Vines  
 3 - 5 L per ha  
 Orchard Crops  
 5 L per ha  
 Soil Application:  
 5 - 10 L per ha

## Functions of Calcium

- The "trucker of all minerals" - adequate calcium supply helps increase the uptake of all nutrients.
- Calcium is a main constituent of cell walls and membranes.
- It is essential for cell elongation; therefore it is required throughout every step of plant growth.
- Problems like Bitter Pit in apples, Blackheart in celery and Blossom End Rot in peppers are classic examples of a calcium shortage.
- Because of calcium's role in cell structure and strength and its ability to regulate other plant nutrients, it has a huge impact on fruit quality, shelf life, and pest and disease resistance.
- Calcium also plays a large role in building brix levels.

## Storage & Handling

- Compatibility and/or performance cannot be guaranteed when combined with other products. Jar test for compatibility and spray test on small area before wide-spread use. When combining with other chemicals, add this product to the tank last.
- Store in cool dry area out of direct sunlight. This product has been tested to store safely down to 5°C. Crystallisation or sedimentation may occur below 5°C.
- Shake concentrate thoroughly before adding to partially filled tank.
- Shake or stir before use, especially when near empty to dissolve the residue on the bottom of the drum/bottle
- Do not pre-mix or store in diluted form, and use promptly once opened.
- All foliar sprays perform best when applied early morning or late afternoon.
- **WARNING:** Avoid spraying close to harvest if fruit/vegetables are susceptible to staining.

## Typical Analysis w/v

Calcium	9.6 %
Nitrogen (as organic N)	0.55%
Nitrogen (as nitrate)	6.74 %
Total Nitrogen	7.29%
Potassium (as fulvate)	0.20%
Potassium (as silicate)	0.02%
Total Potassium	0.22%
Iron	2870 mg/L
Zinc	955 mg/L
Manganese	820 mg/L
Boron	375 mg/L
Molybdenum	60 mg/L
Cobalt	30 mg/L
Sulphur	2610 mg/L
Copper	230 mg/L
Magnesium	320 mg/L
Sodium	3730 mg/L
Silicon	210 mg/L
Carbon (as shuttle chelate)	5.29 %
pH	5 - 7
Conductivity	56 - 81 mS/cm
Solubility	100 %
Specific gravity	1.34
Appearance:	Brown liquid

## Note

- Note: Use Nutri-Tech Plant Therapy™ to determine calcium requirements or apply when soil or weather conditions dictate the potential for deficiency.
- Note: Product in 1000 L tanks may weigh over 1 tonne. Forklift with 2 tonne lifting capacity is recommended.

## Warning

- **Warning** - Nutri-Key Calcium Shuttle™ does not promote vegetative growth in some plants and in such cases, if this feature is not desired, then it should only be used once the plant has entered the fruiting cycle when no further vegetative growth is sought.

Disclaimer: Any recommendations provided by Nutri-Tech Solutions Pty Ltd (NTS) or its Distributors are advice only. As no control can be exercised over storage, handling, mixing application or use, or weather, plant or soil conditions before, during or after application (all of which may affect the performance of our program), no responsibility for, or liability for any failure in performance, losses, damages, or injuries (consequential or otherwise), arising from such storage, mixing, application, or use will be accepted under any circumstances whatsoever. NTS recommend you contact an Agronomist prior to product application. The buyer assumes all responsibility for the use of any NTS products.



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