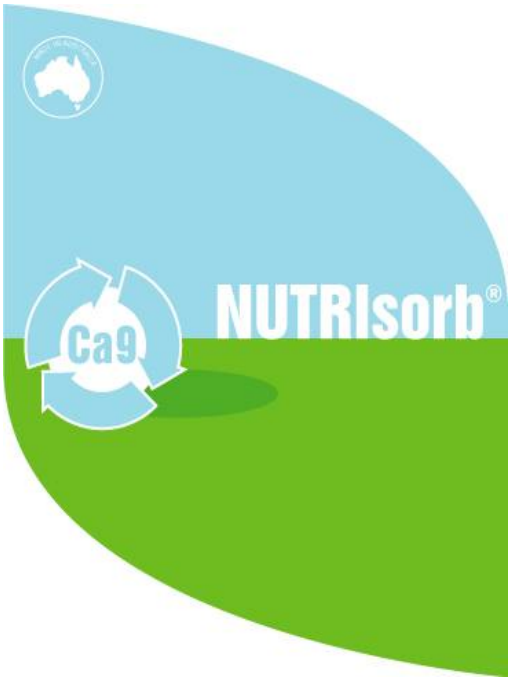
MATCHplay
QUALITY TURF PRODUCTS

NUTRIsorb Ca9 – Chelated liquid calcium

- **A high analysis liquid chelated calcium.**
- **Highly mobile calcium for foliar or soil application.**
- **Unique chelating technology works longer and stronger.**
- **Ideal for treatment of turf in low calcium sands.**
- **Use to treat Calcium deficiency in turf wicket soils**
- **Useful for displacement of sodium salts in turf soils.**
- **Contains a broad major and micro nutrient analysis.**
- **Also serves as a carbo-hydrate based microbial stimulant**
- **Developed and manufactured in Australia**



MATCHplay quality stands alone ...

Foliar use: When applied as a foliar application to turfgrass, Nutrisorb Ca9 quickly restores Calcium to leaf and shoot tissues, treating symptoms of Ca deficiency as well as supplying nitrogen and a suite of trace elements.

Soil application: When applied as a soil drench Nutrisorb Ca9 ensures efficient root uptake of Calcium in order to treat symptoms of deficiency and in turn provide strong tissue growth development.

Because Ca9 supplies calcium in a chelated for it is extremely mobile in the heaviest of clay soils. This means that calcium can be added to these soils without adversely affecting their structure, like a finely ground gypsum of lime product would. As a result Nutrisorb Ca9 is an excellent way of treating calcium deficiency that is often present in turf wicket soils.

Product specifications ...

9.6%	Calcium as organically chelated Ca.
6.6%	Nitrogen as organically chelated N
83.8%	Naturallly derived substances containing Seaweed extracts, low molecular weight humic acid and L-form amino acid.

General Information

Composition:
Liquid chelated fertiliser with carbohydrate based microbial stimulant

Volume:
20 Litres

Nutrient Analysis

Calcium	9.6%
Nitrogen	6.6%
Carbon	5.7%
Potassium	1740 mg/L
Sulphur	1650 mg/L
Manganese	800 mg/L
Zinc	900 mg/L
Iron	1600 mg/L
Copper	300 mg/L
Boron	400 mg/L
Molybdenum	100 mg/L
Magnesium	300 mg/L
Sodium	10 mg/L
Silica	87 mg/L

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General information...

- Calcium plays a major role in the development of plant cell walls, especially during the cell division stage.
- Calcium directly affects osmotic (water) potential of leaf tissue, by ensuring the integrity of cell membranes, enabling more effective retention of plant tissue water.
- Calcium plays a key role in protecting cells from toxins and in slowing the ageing process.
- Ca++ is a dominant soil cation that occupies the majority of cation exchange sites in healthy turf soils and is central to the creation and maintenance of a pedal soil structure.
- Calcium deficiency is common in low pH soils as well as soils high in Magnesium, Phosphorus and potassium.

Calcium deficiency in professional turf occurs most often at the extremes of the soil texture continuum. Constructed sand profiles like golf and bowling greens often display calcium deficiency due to a low cation exchange capacity. Meanwhile the heaviest of turf soils, cricket wickets, also are commonly deficient in calcium due to the reluctance of curators to use calcium products that might influence soil structure.

Our challenge was to find a product that would be efficacious for both ends of the spectrum. A calcium product with heightened availability to provide immediate foliar benefit for deficient turf, yet mobile enough to move deep into clay soils to take residence on cation exchange sites.

In this formulation, an organically chelated calcium is combined with nitrogen (6%), trace elements and organic substances including Fulvic acid (a low molecular weight humic substance). A powerful organic electrolyte, Fulvic acid is credited with the ability to balance and energize plant cells. With a unique capacity to dissolve minerals and trace elements, the fulvic acid in NUTRIsorb Ca9 serves to fast track the plant-availability of calcium while simultaneously enhancing the physical well-being of plants and soil microbes.

'NUTRIsorb Ca9' is a great example of product development the right way round. Find or make a product to meet clients needs – rather than finding a problem to suit a product need.

Directions for use...

SITUATION	RATE	COMMENTS
Foliar application: Greens and fine turf, Fairways, Sportsturf, lawns and landscape.	10-20 Litres / ha	For treatment of Calcium deficiency in tufgrass, apply NUTRIsorb Ca in sufficient volume of water to achieve uniform coverage and leave to dry on foliage. Apply using a minimum dilution rate of 1 part NUTRIsorb to 100 parts water.
Soil application: Greens and fine turf, Fairways, Sportsturf, lawns and landscape.	20-40 Litres / ha	Apply in sufficient volume of water to avoid drying on foliage and schedule irrigation as soon as is practicable to wash the ingredients down into the root zone without excessive flushing.

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