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**Organic Calcium/Magnesium/Boron/Silicon complex for the prevention or correction of nutrient deficiencies**

**GENERAL INFORMATION**

- **Nutricore Cal•Force** is a completely chelated foliar fertilizer using organic complexes derived from natural plant sources.
- **Cal•Force** is designed to address calcium (Ca) and magnesium (Mg) deficiencies in turf that often occur at the same time. This formulation is an ideal balance of these two essential nutrients.
- Boron is added in the ideal ratio to improve the mobility of calcium in the plant and improves the uptake of potassium. Silicon stiffens the turf blade for a cleaner cut, truer ball roll and improved stress tolerance.

**CALCIUM:**

Calcium is essential to maintaining the structural integrity of membranes and cell walls. Environmental factors such as cold soils, irrigation water quality, and antagonistic nutrient interactions can cause calcium deficiencies in soils with adequate levels. In most cases, a foliar application is necessary when levels decline. Calcium levels in plant tissue should contain between .25% and 1.0% in the dried tissue depending on the turf grass variety. Plants with adequate levels of calcium have improved tolerance to many stress conditions including fungal attack. Calcium deficiency symptoms include irregular leaf margins and chlorotic foliage but are difficult to detect visually in turf grass.

**MAGNESIUM:**

Magnesium is found in the highest levels as the central atom in the chlorophyll molecule and is essential for photosynthesis. Magnesium is involved as an activator for numerous critical enzymes. Magnesium deficiencies are common in strongly acid soils and calcareous sand media. Magnesium levels in plant tissue should contain between .15 % and .50 % in the dried tissue depending on turf grass varieties. Plants with good levels of Magnesium are metabolically active and increase the uptake of phosphorous , potassium and nitrogen. Magnesium is very mobile in the plant and deficiency symptoms include chlorosis in the older leaves as chlorophyll breaks down to provide nutrients to the younger leaves.

**GUARANTEED ANALYSIS**

Calcium (Ca) .....	5.5%
Magnesium (Mg) .....	2.0%
Boron (B) .....	0.5%
Silicon (Si) .....	0.5%

**DERIVED FROM:**

Calcium hydroxide, magnesium oxide, boric acid: Organically chelated with natural plant derivatives.

Product contains non-plant food ingredients: Silica 0.50%

**APPLICATION RATES:**

Warm and Cool Season Turf:  
 Apply product at a rate of 2-4 oz per 1000 sq. ft.  
 (26-52 ml per 100 sq. m) every 21 days or as needed.

Packaged in 2 x 10 Litres, 2 x 2.64 Gallons.  
 Net wt: 25.6 kg, 56.3 lbs.



**For more information contact us at 1-866-499-0659**

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**FEATURES:**

**BENEFITS:**

**Calcium/Magnesium/Boron**

Contains an ideal ratio of calcium to magnesium and boron for sound plant growth at critical stages.

**Boron**

Essential element for cell wall synthesis and the formation of carbohydrates from glucose sugar. In Boron deficient plants, glucose is converted to phenols increasing pressure from insects and disease.

**Silicon**

Beneficial element to grasses where it accumulates in the cell wall. Silicon "stiffens" the turf blade for a cleaner cut.

**Plant-based Organic Complex**

Nutrients are 100% chelated with plant based complexes which are quickly absorbed and translocated in the plant tissue.

**Natural and Built-In Humectants**

Humectants keep the nutrient complex wetter for a longer period of time allowing for greater absorption from the leaf.

**High Level of Safety**

**Cal • Force** does **not** contain nitrates, chlorides, sulphates or sodium. Natural derivatives are compatible with plants normal biological processes.

**Tank Mix Compatibility**

Compatible with most pesticides, water soluble fertilizers and with all Nutricore products.

**DIRECTIONS FOR USE:**

- **Cal • Force** is recommended in conjunction with a **Precision Nutrient Program™** that includes an assessment of need from analytical data
- **Cal • Force** is compatible with all Nutricore foliar fertilizers and most commonly used pesticides. A jar test is recommended when mixing with other chemicals.
- Apply product with a minimum of 40 gallons of water per acre (5 litres per 100 sq. m) using recommended nozzles.
- Product requires gentle agitation before use.
- Store product in a cool dry place out of direct sunlight.



**Fertilizer with a Purpose™**

Cal•Force™ is a trademark of Plant Science Inc.