



CAL-TEC 9%

CALCIUM GLUCOHEPTONATE

6-0-0 With 9% CHELATED CALCIUM

- FOR TURF, NURSERY & GREENHOUSE
- CORRECTS CALCIUM DEFICIENCY

GUARANTEED ANALYSIS:

Total Nitrogen (N)	6%
6 % Nitrate Nitrogen	
Calcium (Ca)	9%
9% Chelated Calcium (Ca)	
Derived From: Technical Grade Calcium Nitrate. Chelating Agent: Glucoheptonate.	
Weight per gallon	11.3 lbs.
Weight per liter	1.35 kg
Each gallon contains	1.02 lbs Calcium
Each liter contains	0.12 kg Calcium
Freezing temperature	32°F
pH	6.5

PRODUCT DESCRIPTION:

Cal-Tec Calcium Glucoheptonate 9% is a unique sugar acid chelate that forms a 100% soluble calcium / nitrogen. This provides immediate plant uptake to correct deficiencies through both the leaves and root tissue. Calcium is known to be essential for plant membrane integrity, proper cell division and overall plant vigor and stiffness. It is important in cell wall bonding and promotes enzyme activation for starch conversion. Cal-Tec 9% can be used during hot weather to reduce stress during times of high transpiration. Calcium is also important to improve soil structure, reduce salt build up and soil compaction from road salts and urban stress. Calcium is often used to improve the cation exchange capacity of the soil, raise pH of soil and help reduce the build up of toxic salts.

APPLICATION RECOMMENDATIONS:

When determining the application rates of Cal-Tec 9%, it is important to check both tissue and soil sample analysis for calcium levels. Since calcium is the second highest percentage in plant tissue, correct any deficiencies early in the spring and continue to apply throughout the growing season. Cal-Tec 9% provides immediately available calcium along with nitrogen for correction of calcium deficiencies. Hot weather will also aggravate calcium deficiencies. Calcium deficiencies become evident at terminal bud growth, with hooked malformation and finally dying back.

Calcium Per Liquid Ounce (ml)	
Cal-Tec 9%	Calcium Rate
16 oz	1/8 lb. Ca
472 ml	0.06 Kg Ca
31 oz	1/4 lb. Ca
914 L	0.12 Kg Ca
42 oz	1/3 lb. Ca
1.25 L	0.15 Kg Ca
Apply at desired calcium rate per 1,000 FT ² (100 m ²)	

- HELPS REDUCE SOIL COMPACTION
- FOR STRESS TOLERANCE & TURGITUDY

Soil Conditioning: Calcium is often used to improve the cation exchange capacity of the soil, raise pH of the soil, and help reduce the build up of toxic salts. Check soil analysis for calcium requirements. For sand tees and greens monthly applications are required to improve cation exchange capacity.

Turf Applications		
Spray at a rate of 1-5 gallons per 1,000 FT ² (100m ²)		
Application	Rate Per 1,000 SF ² (100m ²)	Frequency
Cool Season Grasses	3 - 4 oz (90-120 ml)	Apply every 30 days
Warm Season Grasses	5 oz (150 ml)	Apply every 30 days
Newly Established Grass	3 - 4 oz (90-120 ml)	Every 14 days
Soil Remediation	5 oz (150 ml)	Apply 4 times per year

Greenhouse & Nursery Injection Ratio		
1:100	38 PPM Nitrogen 50 PPM Calcium	5 oz per gal water (148 ml in 4 L water)

Nursery Applications		
Application	Rate	Notes
Containerized Crops, Woody and Flowering Ornamentals, Foliage, Field-Grown Nursery Stock And Trees	Spray: 1-2 quarts per 100 gal of water (250 - 500 ml in 100 L water)	Thoroughly spray to point of runoff. Apply every 2-4 weeks.
Palms	Spray: 1 quarts per 100 gal of water (250 ml in 100 L water)	

Storage: DO NOT FREEZE.

Dilution: Cal-Tec can be diluted by either adding the concentrate to water or the water to concentrate without any detrimental effects on the final mixed product. Appropriate quantities of water should be added prior to adding potassium and phosphates, or pesticides, fungicides and herbicides.

Mixing: Cal-Tec is amine compatible and can be used with herbicides, insecticides and fungicides. Cal-Tec 9% must first be diluted with water prior to mixing with other nutrients or pesticides. The following mixing procedures should be used after Cal-Tec 9% has been diluted with water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles, 4. surfactants, 5. emulsifiable concentrates. Be sure to agitate during each addition, mix well before adding next product. Apply all of mixture that day. Do not mix with strong acid materials or high phosphate fertilizers.