



CAL-TEC 9% (6-0-0) CALCIUM GLUCOHEPTONATE WITH 9% CHELATED CALCIUM

- FOR TURF, NURSERY & GREENHOUSE
- CORRECTS CALCIUM DEFICIENCY
- HELPS REDUCE SOIL COMPACTION

GUARANTEED ANALYSIS: F106
 Total Nitrogen (N) 6%
 6 % Nitrate Nitrogen
 Calcium (Ca) 9%
 9% Chelated Calcium (Ca)

Derived From: Technical Grade Calcium Nitrate. Chelating Agent: Glucoheptonate.

PRODUCT SPECIFICATIONS:

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
 pH6.5

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

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

- FOR STRESS TOLERANCE & TURGIDITY
- UNIQUE SUGAR-ACID CHELATE
- CRITICAL REGULATOR OF PLANT GROWTH

Turf Applications		
Spray at a rate of 1-5 gallons per 1,000 FT ² (100 m ²)		
Application	Rate Per 1,000 ft ² (100 m 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 run-off. Apply every 2-4 weeks.
Palms	Spray: 1 quarts per 100 gal of water (250 ml in 100 L water)	

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.

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.

Storage: DO NOT FREEZE. Store in heated area to prevent crystallization.

Greenhouse Foliar Spray Recommendation

Application	Rate	Frequency / Notes
For All Types of Greenhouse Crops	Transplanting: Mix 1-2 oz per gallon of water (8-16 ml per liter water)	Soak plug tray or foliar spray after transplanting
	Propagation: ½-1 oz per gallon water (4-8 ml per liter water)	Apply at 2nd leaf stage and then every 10-14 day intervals.
	Maintenance: ½ -2 oz per gallon water (4-16 ml per liter water)	Apply at 10-14 day intervals to supplement nutrient requirements.

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.

FIRST AID	
IF SWALLOWED:	Call a poison center or doctor if you feel unwell: Rinse mouth.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
IF ON SKIN:	Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
IF INHALED:	Call a poison center or doctor if you feel unwell.
You may also contact 1-800-992-5994 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101), Keep out of reach of children (P102), Read label before use (P103).	
STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

The following precautionary statements and pictograms are based on The Globally Harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)



WARNING

H315 Causes Skin Irritation
H319 Causes Serious Eye Irritation
H335 May Cause Respiratory Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

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