



# CAL-TEC 9% (6-0-0)

## CALCIUM GLUCOHEPTONATE *With* 9% CHELATED CALCIUM

- **100% Chelated Calcium**
- **Quickly Corrects Calcium Deficiencies**

**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.

**TECHNICAL DATA:**

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 9% is a fully chelated micronutrient for the correction of calcium deficiency in field crops, fruit trees and greenhouse crops. This convenient, clear liquid is recommended for foliar spray or soil applications and provides calcium in a soluble, readily available form for plant uptake. Calcium can correct minor deficiencies or can be used in a regular growing program where crops and soils are known to be deficient. It is important to treat calcium deficiency before the symptoms become visual to ensure proper crop yield. Rates of Calcium will vary depending upon the severity of the deficiency, climate, soil conditions and method of application. Soil analysis can determine pH and available calcium. It's compatible and can be used with most fertilizers and technical materials. Calcium promotes early root formation and growth, improves plant vigor and fruit integrity, and helps control cork spot and bitter pit on apples and pears. Calcium influences the uptake of other nutrients and encourages grain and seed production. Use in hot weather to reduce heat stress.

**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, it is important to correct any deficiencies early in the spring and continue to apply throughout the growing season. Hot weather will also aggravate calcium deficiencies. Calcium deficiencies become evident at terminal bud growth, with hooked malformation and finally dying back.

Like all G.P. Solutions, it is ideal for any type of fertigation system, drip irrigation or spray equipment. Use Cal-Tec on all types of bedding plants, perennials, cut flowers, plugs, ornamentals, nursery

- **Soluble & Ready for Immediate Uptake**
- **Use to Raise pH Levels**

crops, trees, foliage, ornamental grasses, and container plants.

**Direct Siphon:** Cal-Tec can be siphoned directly from the original container. This can be done with a variable proportioner that can be set to high ratios. This eliminates the need to mix stock concentrates or stir the mixing barrels. For 100 PPM calcium, set injector to 1:1000; for 200 PPM, set injector to 1:500.

**Soil & Tissue Testing:** Have horticulturists identify micronutrient deficiencies. Whenever possible, run these tests prior to micronutrient applications in order to prescribe the deficient micro.

**Foliar Feeding:** When using overhead irrigation, Cal-Tec gives you dual efficiency as the nutrients will be absorbed by both the leaf and roots of the plant. For tender plants and greenhouse foliar spray applications use one-half the rate (PPM) you would normally use for drip irrigation feeding.

**Hand Watering:** Mix 1/2 to 3/4 teaspoon Cal-Tec per gallon of water. Saturate soil with mix.

**CROP TREATMENT RECOMMENDATION:**

**Foliar Application:** Dilute with water according to label recommendations to apply as a foliar spray. Always spray on leaf until run-off. See chart for crop rates. For conventional sprayers, use a minimum of 20 gallons of water per acre (200 L of water per Ha). For best results spray in early morning or late afternoon. Do not spray in the heat of day. For best results, spray when the crop is in an active growth state, after irrigation or natural rainfall.

**Deficiency Symptoms:** Terminal bud growth will be hooked or distorted. Leaves have a wrinkled appearance.

Nursery Applications		
Application	Rate	Notes
Containerized and Field Grown Crops (including but not limited to): Deciduous and Evergreen Trees, Foliage, Ornamental Grasses, Perennials, Tropicals, Woody Ornamentals	<b>Foliar Spray:</b> 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. Apply after transplanting or when calcium deficiency symptoms appear.
Palms	<b>Spray:</b> 1 - 2 quarts per 100 gal of water (250 - 500 ml in 100 L water)	Apply every 2 - 4 weeks.

### Crop Application Recommendations

Crop	Foliar Application Rate	Notes
Legumes, Leafy Vegetables, Tomatoes, Peppers and Celery	2 - 4 quarts per acre (5 - 7 liters per hectare)	First application between 2 <sup>nd</sup> and 4 <sup>th</sup> trifoliate stage. Do not apply during bloom.
	1 - 2 qts per acre (2 - 5 liters per hectare)	Reapply every 14 - 28 days until 2 weeks before harvest
Citrus Crop and Avocados	2 - 4 quarts per acre (5 - 7 liters per hectare)	Apply during pre-bloom and post-bloom.
Mangos	1 - 4 quarts per acre (2 - 7 liters per hectare)	Apply after tree has leafed out. Repeat at petal fall & at 2 - 4 week intervals
Bananas	1 - 3 quarts per acre (2 - 5 liters per hectare)	Apply at 7 - 14 day intervals. 20 - 30 applications per year
Melons, Cucumbers, Squash and other Cucurbit Crops	1 - 2 quarts per acre (2 - 5 liters per hectare)	Apply with each pesticide application prior to bloom. Repeat same every 21 days.
Pome & Stone Fruit, Papaya, Nut Trees, Soft Fruit, Berries, Grapes	1 - 2 quarts per acre (2 - 5 liters per hectare)	Apply after tree has leafed out. Repeat after petal fall every 2 - 4 weeks.
Field Crops, Small Grain including Rice	1 - 2 quarts per acre (2 - 5 liters per hectare)	Apply 30 days after planting and before flowering. Repeat every 21 days until 2 weeks before harvest.
Visit <a href="http://www.growthproducts.com">www.growthproducts.com</a> for additional rate/crop information.		

### Greenhouse Foliar Spray Recommendation

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

### Greenhouse & Nursery Injection Ratio

1:100	38 PPM Nitrogen 50 PPM Calcium	5 oz per gal water (148 ml in 4 L water)
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### FIRST AID

<b>IF SWALLOWED:</b>	Call a poison center or doctor if you feel unwell: Rinse mouth.
<b>IF IN EYES:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
<b>IF ON SKIN:</b>	Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
<b>IF INHALED:</b>	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

**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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