The main reason our chelates are preferred over other forms of fertilizer is the effectiveness, compatibility and stability in mixing with other nutrients and products. They protect the nutrient from falling out (precipitating) and assists in the plant uptake and translocation.

The organic chelates have a high stability constant, are bio-degradable and can be used by the plant as an energy source. Chelates are in the most available form for immediate use for plant growth, translocation and development. Chelates may be combined directly with nitrogen, phosphate and potassium, and will remain in a true solution.

COPPER CHELATE 5.0%
Crucial for photosynthesis, respiration, seed, chlorophyll formation, amino acid conversion and zinc uptake.
1 U.S. Gallon • Net Weight 10.26 lbs.
3.78 Liters • 4.66 Kg. • Specific Gravity 1.23 • pH: 1.3

IRON CHELATE 4.7%
Essential for chlorophyll formation.
Catalyzes many enzymatic reactions essential for respiration and photosynthesis.
1 U.S. Gallon • Net Weight 11.18 lbs.
3.78 Liters • 5.08 Kg. • Specific Gravity 1.34 • pH: 2.7

MAGNESIUM CHELATE 5.0%
Aids phosphorus use in energy transformation, seed germination, nitrogen metabolism, chlorophyll formation and growth.
1 U.S. Gallon • Net Weight 10.26 lbs.
3.78 Liters • 4.66 Kg. • Specific Gravity 1.23 • pH: 0.6

MANGANESE CHELATE 5.0%
Aids nitrogen utilization, phosphorous and magnesium uptake.
Serves as an activator for enzymes.
1 U.S. Gallon • Net Weight 10.43 lbs.
3.78 Liters • 4.74 Kg. • Specific Gravity 1.25 • pH: 1.4
ZINC CHELATE is a soil and foliar fertilizer that helps prevent and relieve zinc deficiencies. It is made with organic and amino acids and selected carbohydrates that facilitate its entry into the plant and utilization when used as a foliar or in the soil. This product is readily absorbed by the plant and translocated to various tissues and metabolized for optimum growth and development.

ZINC CHELATE may be combined directly with other Baicor® fertilizers and will remain in solution. All plants require 13 essential nutrients in addition to carbon dioxide, water, and light. If any one of the nutrients is missing or deficient, the plant will not complete its normal life cycle. Zinc is required in high micro-levels by plants for maintaining enzymatic activity and auxin levels. It is involved in the production and use of growth regulators as well as making enzymes function correctly. A deficiency of zinc greatly reduces plant growth and quality of crops such as potatoes, sugar beets, and wheat. ZINC CHELATE has been tested against other well-known competitor products in independent studies and has been shown to have significantly greater uptake and accumulation.

Benefits of ZINC CHELATE:

- Increases leaf and fruit size & quality
- Helps calcium translocation
- Essential in uniform seed formation
- Enzyme activator
- Essential for transformation of carbohydrates and helps regulate consumption of sugars to promote plant growth

Deficiency Symptoms:

- Zinc deficiency is found in the new growth of the plant.
- Abnormal leaf size (small) and shape occur. Reduced chlorophyll, usually recognized by chlorotic rosette appearance or yellowed areas in new leaves.
- Reduced set, fruit development, and size. Deficiencies will lower crop yield and quality.

GUARANTEED ANALYSIS

<table>
<thead>
<tr>
<th>Zinc (Zn)</th>
<th>5.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0% water soluble zinc (Zn)</td>
<td></td>
</tr>
</tbody>
</table>

Application Rates

**ADD WATER FIRST TO TANK OR SPRAYER BEFORE ADDING PRODUCT!**

**AERIAL APPLICATIONS:** Use at least 20 parts water to 1 part BAICOR® fertilizer. Add at least 20 parts water before introducing product.

**FOLIAR APPLICATIONS:** Use at least 100 parts water to 1 part BAICOR® fertilizer. Add at least 50 parts of water before introducing product.

**FRUIT, NUT & VINE CROPS:** Including (but not limited to) almonds, hazelnuts, grapes, pecans, and walnuts. Apply 0.5 – 1.5 quarts per acre. **NOTE:** Before applying to pome or stone fruit, consult your qualified and licensed consultant for recommendations.

**FIELD AND VEGETABLE CROPS:** Apply 0.5 – 1.5 quarts per acre.

**GRAIN CROPS:** Apply 0.5 – 1.5 quarts per acre at 3-4 leaf stage.

**TURF GRASSES:** Apply 0.5 – 1.5 quarts per acre.

**SPRINKLER IRRIGATION:** Apply 1-3 quarts per acre with irrigation water. Use check valve to prevent back flow into water system.

**SOIL APPLICATION RATES:** Use at least 20 parts water to 1 part BAICOR® fertilizer. Do not apply directly to seeds unless it has been determined tested by the consultant or grower that it is not harmful or injurious to the seed.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Rate per Acre</th>
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</thead>
<tbody>
<tr>
<td>Maintenance</td>
<td>1 qts/acre</td>
</tr>
<tr>
<td>Beginning Deficiency</td>
<td>2 qts/acre</td>
</tr>
<tr>
<td>Severe Deficiency</td>
<td>3 qts/acre</td>
</tr>
</tbody>
</table>
**Calcium Chelate 5%**

**CALCIUM CHELATE 5.0%** is chelated with organic and amino acids. It has a stability constant high enough to be mixed with phosphorus and remain in true solution. The mixture of organic and amino acids, and selected carbohydrates facilitate its entry into the plant and utilization when used as a foliar or in the soil. This product is readily absorbed by the plant, translocated to various tissues and metabolized for optimum plant growth and development.

Calcium is taken up through the root tips in the soil. In times of calcium demand the plant may not be able to satisfy its needs by root uptake. This results in internal brown spot for potatoes, blossom end rot in tomatoes, etc. Foliar addition of calcium assures adequate nutrients for membranes, cell wall development and plant structure.

**Benefits of CALCIUM CHELATE 5.0%**

- Essential for cell wall formation, structure, and development, necessary for development of firm fruit and vegetables.
- Regulates nutrient uptake by roots throughout the entire plant. Helps grain and seed development.
- Essential for early root growth, new root growth and enhances pollen germination.
- Necessary for protein and sugar transfer throughout the plant.
- Essential for stronger cell walls - helps resist disease and stress conditions.

**Deficiency Symptoms:**

- Death of growing parts (terminal buds & root tips), poor root development, yellowing of tissue, brittleness of leaf and stem tissue, fruit and vegetable disorders, premature shedding of blossoms and buds.
- The apical (new growth) of plants (roots, leaves and buds) is stunted and even die back of new growth. Abnormalities such as blossom end rot of tomato fruit, loss of cellular structure in apples (bitter-pit) and hollow heart of potatoes may occur.

**Application Rates**

**ADD WATER FIRST TO TANK OR SPRAYER BEFORE ADDING PRODUCT!**

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- **Maintenance Concentration** 1 qts/acre
- **Beginning Deficiency** 2 qts/acre
- **Severe Deficiency** 3 qts/acre

1 U.S. Gallon • Net Weight 10.26 lbs. • 3.78 Liters • 4.66 Kg. • Specific Gravity 1.23 • pH: 0.5

**GUARANTEED ANALYSIS**

Calcium (Ca) .................................................................. 5.0%

5.0% water soluble calcium (Ca)
Calcium + Boron

A blend of Calcium and Boron complexed with organic acids, amino acids and carbohydrates designed to provide these nutrients to the plant by foliar, soil, and banding. Calcium and Boron often work together in preventing blossom end rot, potato tuber problems etc. Readily taken up by the plant and utilized.

Calcium is essential for the structural strength of plants and assists in the uptake of nutrients into sites where they are required.

GUARANTEED ANALYSIS

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Analysis</th>
<th>%</th>
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<tbody>
<tr>
<td>Calcium (Ca)</td>
<td>5.0% water soluble calcium (Ca)</td>
<td>5.0%</td>
</tr>
<tr>
<td>Boron (B)</td>
<td>1.0% water soluble boron (B)</td>
<td>1.0%</td>
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Maintenance Concentration  1 qts/acre
Beginning Deficiency       2 qts/acre
Severe Deficiency          3 qts/acre