



**PLANT  
FOOD  
COMPANY, INC.**

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#### Guaranteed Analysis

Total Calcium (Ca)..... 6.0%  
Total Sulfur (S) ..... 10.0%  
Derived from Calcium Thiosulfate CAS # 10124-41-1

- Weight Per Gallon: 10.43 pounds
- One gallon of Calcium Thiosulfate contains:  
    .63 lbs. Calcium  
    1.04 lbs. Sulfur from Thiosulfate
- pH: 6.5 – 8

#### General Information

Calcium Thiosulfate is a neutral to basic, chlorine-free, clear solution, containing 6% calcium and 10% thiosulfate sulfur. It is an excellent calcium and sulfate liquid that can be used as "liquid gypsum" in treating calcium and sulfur soil deficiencies.

Calcium Thiosulfate may be applied by a fertigation system or sprayer. It may be blended with other fertilizers for soil applications.

Thiosulfate as a Sulfur Source. The advantage of thiosulfate, in comparison to other sulfur forms, is that the sulfur need for plant growth becomes available over several weeks. When sulfur is applied totally in the sulfate form, some may be lost to leaching; the result of rainfall and/or irrigation water moving this form below the root zone. When elemental sulfur is applied, oxidation to a sulfate form must occur before it becomes available to the plant. Thiosulfate helps supply the plant's sulfur needs quicker than other sulfur forms.

# Calcium Thiosulfate

## 0-0-0 + 10%S 6%Ca

### Fertilizer Solution

#### Ornamentals

Apply one quart of Calcium Thiosulfate per 1000 square feet in the irrigation water to growing plants. Rinse off any contact with foliage immediately.

Soil Spray Application: Apply 6 to 12 oz. per 1,000 sq. feet (2 - 4 gallons per acre) every 14 days in a minimum of 2 gallons of water per 1,000 sq. ft. Irrigate immediately after application to knock concentration off leaf blades to prevent injury and into the soil profile to correct sulfur and calcium deficiencies.

It is not recommended to apply foliar applications of Calcium Thiosulfate on Turf without irrigation due to the possibility of burn after application. (Foliar application is defined as a spray application that is NOT irrigated into the soil) Do not apply to turf when temperatures are above 90°F. Apply Calcium Thiosulfate in the early morning or late evening.

#### Soil Application

Calcium Thiosulfate may be broadcasted or band applied to the soil surface to reduce crusting problems and improve water infiltration. For band application, apply at the rate of one gallon per acre per inch of band width. (An eight inch band would require an 8 gallon per acre rate.) Calcium Thiosulfate may be applied to a wide variety of agriculture crops, turf, ornamentals and greenhouse plants. Calcium Thiosulfate may be broadcast, banded or knife injected as a source of calcium and sulfur. Rates may vary between 10 to 40 gallons per acre (GPA). Broadcast application rates are dependent on soil type, water quality and method of irrigation.

**Preplant treatment-** apply 30 to 40 gallons of Calcium Thiosulfate per acre via the irrigation water.

#### Fertigation:

Calcium Thiosulfate may be applied through most irrigation systems.

#### Overhead Irrigation:

**Apples-** 5 to 10 gallons per acre per application. Repeat as needed to achieve calcium tissue levels desired.

**Young Tree and Vine Crops-Other-** 3 to 8 gallons per acre per application. Repeat as required.

**Mature Tree and Vine Crops-Other-** 5 to 10 gallons per acre per application. Repeat as required.

**Potatoes-** 10 to 25 gallons per acre per application. Repeat as required to maintain adequate calcium tissue levels.

**Other Crops-** 5 to 10 gallons per acre per application. Repeat as required.

#### Drip Irrigation:

**Young Tree and Vine Crops-** 3 to 10 gallons per acre per application during the growing season. Allow 10 to 14 days between applications.

**Mature Trees and Vine Crops-** 3 to 15 gallons per acre per application. Repeat one to two times during the growing season. Allow 10 to 14 days between applications.

**Vegetable and Row Crops-** 1 1/2 to 5 gallons per acre per application. Repeat 2 to 4 times during the growing season as needed. To improve water infiltration and provide soluble calcium and sulfur inject 4 to 6 gallons per acre per application.

#### Foliar Application:

Apply when sufficient canopy is present to intercept spray volume. Apply in sufficient volume to achieve sufficient plant coverage, usually 20 gallons of water per acre.

**Alfalfa-** 2 gallons per acre per application. Apply on stubble of previous cutting.

**Other Crops-** 1/2 to 1 gallon per acre per application. Repeat applications as required.

**SOIL APPLIED:** Calcium Thiosulfate may be broadcast, banded or knife injected as a source of calcium and sulfur. Rates may vary between 10 to 40 gallons per acre (GPA). **Calcium Thiosulfate is not compatible with phosphate fertilizers.** Preplant treatment, apply 30 to 40 gallons of Calcium Thiosulfate per acre via the irrigation water.

When mixing Calcium Thiosulfate or any liquid fertilizer with pesticides always keep agitators running during filling and spraying operations. Failure to maintain agitation may cause separation of products resulting in uneven spray application.

#### Tank Mixing

Prior to any fertilizer or pesticide application, all spray mixing and application equipment must be cleaned. A quality tank cleaner is recommended. Carefully observe all cleaning directions on the pesticide and fertilizer label. Fill the spray or mix tank at least one half full of water and begin agitation. Add pesticides and/or fertilizers as directed by labeling or in the following sequence:

**1. Dry flowables or water dispersible granules 2. Wettable powders 3. Flowables 4. Emulsifiable concentrates 5. Water based solutions 6. Compatibility agents 7. Micronutrients and Fertilizers 8. Spray adjuvants.**

Before mixing multiple chemicals and/or fertilizers in the tank, confirm product compatibility by performing a jar test. Be sure to mix with plenty of water.

#### Caution:

Keep Away from Children and Domestic Animals. Avoid contact with eyes, open cuts, or sores. Harmful if swallowed. External: Flood with water. Internal: Induce vomiting. Contact a physician immediately.

#### Storage and Handling:

Store in a cool, dry place; keep container tightly closed; do not add water or other material to the container. Do not contaminate water, food, or feed by storage or disposal. Do not store near acids or other acidic materials.

**Store above 32° F. Do not allow to freeze.**