



Turf and Ornamental Application Recommendations

CALCIUM THIOSULFATE

Liquid Fertilizer

CaTs®

Soluble Calcium (Ca)	6%
Combined Sulfur (S)	10%
Density: pound per gallon at 68°F	10.4
Volume: gallons per ton	192

General Information

CaTs is a neutral to basic, chloride-free, clear solution, containing 6% calcium and 10% thiosulfate sulfur. Each gallon of CaTs contains 0.63 pound of calcium (Ca) and 1.0 pound of thiosulfate sulfur (S). CaTs may be applied as a foliar treatment, through fertigation via drip, sprinkler, flood irrigation, or as a surface broadcast, banded or watered in. CaTs may be blended with other fertilizers or pesticides, however, compatibility and safety should be verified before mixing and application.

CaTs may be used as a fertilizer for the correction of calcium and sulfur deficiency and as a soil amendment. As a soil amendment, CaTs may be used to improve water infiltration and aid in leaching of harmful salts from the soil. The calcium in CaTs is 100% soluble making it a efficient soil amendment at displacing sodium.

Application & Use Recommendations

Fertigation:

Before injecting CaTs into an irrigation system, make sure that the irrigation system is in good condition and provides uniform distribution. Application of CaTs should be made in the middle of an irrigation event with water applied before and after the product. Rapid injection of CaTs may lead to uneven distribution of fertilizer and may cause damage to the plants.

Fertigation Injection (sprinkler, drip, etc.):

Ornamentals: Apply 1 quart of CaTs per 1000 square feet in irrigation water to established plants. Rinse off any contact with foliage immediately.

Turf: Apply CaTs in irrigation water at 30 to 40 ounces per 1000 square feet (10 to 13.5 gallons per acre). Allow at least 7 Days between Injections. Apply as needed during the growing season as indicated by soil and tissue testing.

Foliar Application:

Apply CaTs in sufficient spray volume to achieve good plant coverage.

Ornamentals: Apply 1 to 2 ounces per 1000 square feet. Repeat applications as required.

Turf: Apply 6 to 12 ounces per 1000 square feet in 1.5 to 2 gallons of water (2 to 4 gallons of CaTs per acre in 65 to 85 gallons of water). Allow 14 days between applications. Irrigate immediately after application to prevent injury to the leaf blades, and to allow the product to move into the soil profile.

Preplant Soil Application:

For pre-plant treatment (on bare soil) to improve soil tilth and water infiltration, apply 20 to 40 gallons per acre (0.5 to 1 gallon per 1000 square feet) in irrigation water or via broadcast spray and watered in. For additional application information contact a Crop Vitality Specialist.



SOIL AMENDMENT AND FERTILIZER

CaTs Delivers Maximum Efficiency

Application & Blending Precautions

For information on safety and handling, consult a Safety Data Sheet (SDS) or visit our website at: www.cropvitality.com

CAUTION: Plant and leaf injury may result from unusual weather conditions (intense heat, drought, hot drying wind), or from improper application practices such as injecting fertilizer too quickly. All of which are out of control of the manufacturer or seller. The user assumes all risks of use and handling.

- Use caution when applying fertilizer when plants are experiencing extreme heat or moisture stress. The total rate of fertilizer applied should be split among several irrigations and/or at lower rates per application as temperatures increase.
- DO NOT use high-pressure sprayers (greater than 60 psi) when applying CaTs
- Avoid injecting acids into irrigation water while injecting CaTs. If the water pH is below 6.0 or the injection points are too close, the product could decompose and potentially plug the irrigation system.
- Recommendations in this guide are for CaTs only; the addition of other fertilizers or pesticides at or near the same time could increase the chance of phytotoxicity to the plant.

- When mixing CaTs 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.
- Do NOT mix CaTs with acid or acidic fertilizers below a pH of 6.0.
- DO NOT apply CaTs foliar with crop oil sprays. Allow at least 14 days before and/or after an application of crop oil before applying CaTs as a foliar.
- Combination of other fertilizers and pesticides with CaTs may increase the chances of foliar burn. The applicator should conduct a test plot when applying with multiple products before beginning large scale applications.
- CaTs is not compatible with phosphate, sulfate and ammonium thiosulfate fertilizers. In absence of specific recommendations and data, do a jar test before mixing large quantities. The addition of water to the mixture may be helpful to maintain blend stability. When mixing other liquid fertilizers and/or pesticides with CaTs, the blend sequence should be as follows: water, pesticide, CaTs and/or other fertilizer.

Technical Data

Plant Nutrient Content Weight %

Calcium (Ca)	6
Total Sulfur (S)	10

Typical Properties

Specific Gravity	1.25
pH	6.5 - 8.0
Appearance	Colorless
Salt-Out Temperature	32°F

Formulation And Application Factors, 68°F

Density: pounds per gallon	10.4
Volume: gallons per ton	192
Pounds of Calcium per gallon	0.63
Pounds of Sulfur per gallon	1.0

The manufacturing process of CaTs is patent protected.

Warranty and Limitation of Damages

Tessengerlo Kerley, Inc. (TKI) warrants only that this product conforms to the product description in the Application Guide. Except as warranted by this description, TKI makes no representation or warranty or guarantee, whether expressed or implied, of fitness for a particular purpose of merchantability, or of product performance. TKI does not authorize any agent or representative to make any such representation, warranty or guarantee. To the extent consistent with applicable law, TKI's maximum liability for breach of its warranty or for use of this product, regardless of the form of action, shall be limited to the purchase price of this product. To the extent consistent with applicable law, buyer and user acknowledge and assume all risks and disposal liability resulting from handling, storage, use and disposal of this product. If buyer does not agree with or accept these warranty and liability limitations, buyer may return the unopened container to the place of purchase for full refund. Buyer's use of this product shall constitute conclusive evidence of buyer's acknowledgment and acceptance of the forgoing limitations. Some jurisdictions do not allow the exclusion of implied warranties or the limitation of certain damages, so the above may not apply. The purchase, delivery, acceptance and use of this product by the buyer are subject to the terms and conditions of seller's sales invoice for this product.

START A CONVERSATION TODAY WITH YOUR CROP VITALITY SPECIALIST

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