



Tessenderlo
KERLEY
The Specialty Liquid Fertilizer People™

KTS[®]

0-0-25+17S

THE ORIGINAL POTASSIUM THIOSULFATE FERTILIZER

GUARANTEED ANALYSIS

Soluble Potash (K ₂ O)	25%
Total Sulfur (S)	17%
17% Combined Sulfur (S)	
0% Free Sulfur (S)	

Derived from potassium thiosulfate.

Plant Nutrient Sources:

Soluble Potash - Potassium Thiosulfate

Sulfur- Potassium Thiosulfate

KEEP OUT OF REACH OF CHILDREN

CAUTION-HANDLING

PRECAUTIONARY STATEMENTS

Avoid prolonged or repeated contact with eyes, skin and clothing. Chemical goggles or a full face shield should be worn. To protect skin wear appropriate protective equipment, such as rubber or plastic aprons, rubber gloves and boots. Avoid breathing mist or vapor. Keep containers closed. Wash thoroughly after handling. May cause gastrointestinal distress if swallowed.

FIRST AID: In case of contact with eyes, immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention if irritation occurs. In case of skin contact, flush skin with water. If irritation occurs, seek immediate medical attention. Remove and wash contaminated clothing before reuse. If swallowed, give large amounts of water and induce vomiting by touching back of throat with finger unless unconscious. Seek immediate medical attention.

HANDLING AND STORAGE: Minimize skin exposure. Store mini-bulks and smaller containers out of the sun in an area of moderate temperature. Do not reuse containers. Avoid containers, piping or fittings made of copper-containing alloys or galvanized metal. Do Not store at temperatures below 15 ° F., as crystallization may occur. KTS may be stored in plastic, fiberglass or stainless steel vessels. Dispose of containers in accordance with local regulations and requirements.

IN CASE OF SPILL: Contain spill and maximize recovery. Keep spill out of water sources. Exercise caution in area of spill for slippery conditions. Dispose of spilled material in accordance with regulatory requirements.

PHYTOTOXICITY: Plant and leaf injury may occur on some crops when certain weather and growing conditions are present. The user assumes all risks of use and handling.

Before handling this product, consult the Material Safety Data Sheet for handling, safety and first aid information.

GENERAL INFORMATION

KTS is a neutral to basic, chlorine-free, clear liquid solution, containing 25% potash and 17% sulfur. Each gallon of KTS contains 3 pounds of potash (K₂O) and 2.1 pounds of sulfur. KTS can be applied by drip, sprinkler, or flood irrigation. It may be blended with other fertilizers or applied as a foliar treatment on selected crops. When used as a foliar fertilizer, KTS should first be diluted with water before applying. Blends of KTS should not be acidified below a pH of 6.0.

KTS is compatible with urea and ammonium polyphosphate solutions in any ratio. When blending with UAN solution, a jar test is recommended before mixing large quantities. Potassium reacts with nitrate to form KNO₃ crystals. If this should happen, the addition of water and/or heat should bring it back to a clear solution.

When blending with micronutrients and pesticides, trial blends should be conducted before beginning large scale mixing.

When mixing other liquid fertilizers and/or pesticides with KTS, the blend sequence should be as follows: water, pesticide, KTS and/or other fertilizer.

GENERAL APPLICATION AND USE RECOMMENDATIONS:

KTS may be applied to a wide variety of ornamental, turf, green house, and other agricultural crops. Potassium requirements for most crops increase dramatically during periods of rapid growth and fruit development. Application of KTS should be made based on soil and/or plant tissue analysis for potassium.

SOIL APPLIED:

STARTER FERTILIZER: Apply 1 to 4 gallons of KTS per acre by itself or with other starter fertilizers, at least 2 inches below and 2 inches to the side of the seed.

POP-UP FERTILIZER: Wheat and other small grains apply 2 to 4 quarts per acre by itself or with other liquid pop-up fertilizers.

Corn and Cotton: Apply 2 to 4 quarts of KTS per acre by itself or with other liquid pop-up fertilizers.

Tomatoes and Other Small Seeded Crops: Apply 2 to 4 quarts of KTS per acre by itself or with other liquid Pop-Up fertilizers.

SIDEDRESS: KTS may be surface banded or knife injected as a source of potassium and sulfur. Rates may vary between 1 and 20 gallons per acre depending on crop requirement and soil analysis .

FOLIAR FERTILIZER APPLICATION

Application rates are only for the crops listed below. For recommendations regarding crops not listed, contact your local fluid fertilizer dealer or your Tessenlerlo KERLEY representative. KTS may be applied by ground or air. It is recommended that the addition of 2 to 4 quarts of either TRISERT®-NB (26-0-0), TRISERT®-CB (26-0-0-0.5B) or N-SURE® (28-0-0) be applied with the KTS. TRISERT-CB, TRISERT-NB and N-SURE are Tessenlerlo KERLEY's *triazole* based slow-release liquid nitrogen fertilizers that improve the foliar absorption of KTS.

By air, apply 2 to 5 quarts of KTS per acre in 3 to 10 gallons of water spray solution. For ground application, apply 2 to 6 quarts of KTS per acre. Unless otherwise specified, apply these rates of KTS along with either TRISERT-CB, TRISERT-NB or N-SURE in enough water to provide adequate coverage.

Corn: Apply KTS just prior to tasseling and second application in 7 to 10 days.

Cotton: Begin treatments the second week of bloom, apply 6 to 8 quarts per acre of KTS by ground applicator every 7 to 10 days for 3 or 4 applications.

Potatoes: Begin at tuber initiation, apply second application in 2 to 3 weeks and third application at tuber bulking.

Small Grains: Apply KTS at tillering to early boot stage.

Alfalfa: Apply at crown green up or on regrowth after cutting.

Peas and Lentils: Apply during late bud to 10% bloom.

Tomatoes: Begin at fruit set, apply every 7 to 14 days.

Apples, Apricots, Almonds, Citrus, Pecans: Apply KTS at 2 to 6 quarts per acre in a minimum of 100 gallons of water spray solution. Begin application at first full leaf and apply as needed during the growing season. For concentrated sprays of less than 100 gallons per acre, reduce the rate of KTS to stay within the recommended solution ratio (i.e., 50 gallons of water per acre equals 1 to 3 quarts of KTS per acre).

Vines: Begin 2 weeks after bloom. Apply 2 to 4 quarts of KTS per acre in a minimum of 50 gallons of water. Repeat treatment in 7 to 10 days.

FERTIGATION

FLOOD AND FURROW IRRIGATION - Trees and Vines: Apply 10 to 15 gallons of KTS per acre per application beginning at full leaf, schedule as needed.

Vegetable and Row Crops: Apply 10 to 15 gallons of KTS per acre per application, make second application based on crop requirements.

SPRINKLER IRRIGATION - Trees (Under): Apply 5 to 15 gallons per acre per application every 10 to 14 days based on crop requirements.

Trees (Overhead): Apply 3 to 5 gallons per acre per application every 10 to 14 days based on crop requirements.

Vines: Apply 3 to 5 gallons per acre per application every 10 to 14 days based on crop requirements.

Vegetable and Row Crops: Beginning at the 3rd to 4th leaf stage, apply 3 to 10 gallons per acre per application every 10 to 14 days based on crop requirements. After injection, allow enough irrigation time to rinse the plants of any residual fertilizer.

CENTER PIVOT - Vegetable and Row Crops: Apply 3 to 5 gallons of KTS per acre per application as needed based on crop requirements.

DRIP IRRIGATION - Young Trees and Vines: 3 to 10 gallons per acre during the season when roots are actively growing.

Mature Trees and Vines: 5 to 15 gallons per acre per application 1 to 2 times during the season when roots are actively growing.

Vegetable and Row Crops: 3 to 5 gallons per acre per application 2 to 4 times during the growing season.

CAUTION (Application)

Do Not apply KTS to foliage of crops sensitive (foliar burn) to sulfur.

WARNING: When blending with TRISERT-CB fertilizer solution, containing boron, boron (B) may cause injury to crops other than those listed on the TRISERT-CB application guide. Consult the TRISERT-CB application guide for further information.

When applying KTS with a spray oil application, be sure to check the manufacturer's label concerning spray oil treatment guidelines and foliar nutrient applications with products containing sulfur. KTS contains thiouslfate sulfur.

Do Not apply to foliage of any crop when temperatures are above 90° F. Apply KTS early morning or late evening.

When mixing KTS 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.

Pop-Up Fertilizers - Many crops are sensitive to salts during germination. When soil moisture is low, delayed crop emergence and/or phytotoxicity may occur when fertilizer is placed too close to the seed. Do Not use KTS in pop-up fertilizer when soil moisture is limited, soil salinity is above an electrical conductivity of 2 or when irrigation is delayed such that germination may be affected.

Do Not apply KTS with knife injectors or other types of fertilizer injecting equipment that may cause root pruning.

Sprinkler application of KTS and other liquid fertilizers over an established crop may cause foliar injury to a crop if: injection period is short enough to cause an excessive amount of fertilizer to accumulate on the leaves, temperatures are above 90° F and humidity less than 30%, fertilizer rates are higher than recommended, irrigation pump breaks down during or immediately after injecting fertilizer, and /or any combination of these conditions.

Crop injury may result from unusual weather conditions, failure to follow label directions, or improper application practices all of which are out of control of the manufacturer or seller. The directions on this label are believed to be reliable and should be followed carefully.

TECHNICAL DATA INFORMATION

KTS 0-0-25+17S

Plant Nutrient Content Wt. %

Soluble Potash (K ₂ O)	25.0
Total Sulfur (S)	17.0
17% Combined Sulfur	
0% Free Sulfur	

Typical Properties

Specific Gravity	1.46
pH	7.0 to 8.2
Appearance	Clear, Colorless
Salting-Out Temperature, °F	<15

Formulation and Application Factors, 60° F.

Density, lbs/gallon	12.2
Volume, gallons/ton	164.0
Pounds K ₂ O per gallon	3.0
Pounds S per gallon	2.1

Plant Nutrient Source

Potassium Thiosulfate	K ₂ S ₂ O ₃
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WARRANTY AND LIMITATION OF DAMAGES

Tessenderlo Kerley, Inc. warrants only that this product conforms to the product description on the label. Tessenderlo Kerley, Inc. makes no representation or warranty or guarantee, whether expressed or implied, disclaims any warranty of fitness for a particular purpose of merchantability, or of product performance. Tessenderlo Kerley, Inc. does not authorize any agent or representative to make any such representation, warranty or guarantee. Tessenderlo Kerley, Inc.'s maximum liability for breach of its warranty or for use of this product, regardless of the form of action, shall not exceed the purchase price of this product. Buyer and user acknowledge and assume all risks and disposal liability resulting from handling, storage, use and disposal of this product, whether in accordance with directions or not. 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. Some states 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 is subject to the terms and conditions of seller's sales invoice for this product.

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