KTS®
0-0-25+17S

THE ORIGINAL POTASSIUM THIOSULFATE FERTILIZER

GUARANTEED ANALYSIS
Soluble Potash (K₂O) 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 glasses 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.

For further information consult an MSDS sheet or visit our website at: www.tkinet.com

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-bulbs 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 (S). 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, soil release rate test and/or plant tissue analysis for potassium.

CAUTION
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.

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
KTS may be applied as a spray application on all turf grasses; cool, transition, and warm season. KTS should be applied as a dilute solution via hand gun or spray boom application and may be injected through the irrigation system. It is recommended that KTS be mixed with N Sure based slow release nitrogen solutions containing trisodium phosphates and spray boom applications for improved efficiency and safety. Apply with sufficient water to achieve adequate plant coverage especially during periods of low temperature, to achieve the maximum benefit of foliar fertilization.

**APPLICATION:** Initiate application in spring when first green up appears and continue through fruit development. Apply in 1 to 4 gallons of spray solution per 1000 square feet.

### Cool, Transitional, and Warm Season Grasses
Rates may be increased for severe potassium deficiencies or per plant tissue test. 2 to 4 pounds of potassium per 1000 square feet per application rate and 4 to 6 pounds of potassium per 1000 square feet per year. It is recommended that KTS be applied in conjunction with 1 to 4 pounds (10 to 40 fluid ounces) of nitrogen supplied from SURE based slow release nitrogen fertilizers to aid in the absorption of the potassium and sulfur by the plant.

FERTIGATION: KTS may be injected during each irrigation at rates of 11 to 22 fluid ounces (1 to 1/2 pound of K) per thousand square feet. Rates will vary in accordance with the irrigation schedule. Use the lower rate to more frequent waterings.

### Golf Course Program
FAWYAYS: KTS may be used as the sole potassium source in fertilizer programs to aid in the absorption of potassium by the plant. In the absence of specific data when used in conjunction with turf protection chemicals, it is recommended that a simple “jar test” be made to determine compatibility of all ingredients prior to mixing. KTS will help stimulate new growth, aid recovery from insect and disease damage, and control delays.

A suggested rate of application of KTS is one gallon per 100 gallons of spray solution. For concentrated sprays of less than 100 gallons per acre, the possible reduction of the rate to KTS to stay within the recommended solution rate at one gallon per 1000 gallons of spray solution. CAUTION should be taken when applying KTS to turfgrass in conjunction with UAN solution, a “jar test” is recommended to ensure compatibility. Potassium reacts with nitrate to form KNO3 crystals. If this should occur, the addition of water and/or heat should bring the mixture back to a clear solution.

Tee and Green: For the sprout feeding of tees and greens apply one pound of KTS (1 fluid ounces of KTS) to 2 to 4 gallons of total spray solution per application every 14 days. KTS may be mixed with UAN solution, a “jar test” is recommended to ensure compatibility. Irrigation is recommended following application.

FERTIGATION and NPK blends containing KTS may be injected during the irrigation system utilizing the current technology and equipment available to the golf course superintendent. It is recommended that rates be in accordance with soil testing data and with the equipment manufacturer’s recommendations.

KTS may be applied either as a foliar feed or injected through the irrigation system. It may be applied as a source potash and sulfur or blended with SURE, to source Definitive N P K blended with sulfur. Blends with KTS should not be acidified below a pH of 6.0 for proper periods of storage.

KTS is compatible with N Sure based slow release nitrogen solutions, urea and ammonium polyphosphate solution in any ratio. When blending with UAN solution, a “jar test” is recommended to ensure compatibility. Potassium reacts with nitrate to form KNO3 crystals. If this should occur, the addition of water and/or heat should bring the mixture back to a clear solution.

In the absence of specific information concerning the mixing with micro nutrients and/or crop protection chemicals, it is recommended that a “jar test” be made to ensure compatibility.

KTS gives the turf professional a completely soluble potassium and sulfur product that allows immediate plant utilization through both root uptake and foliar feeding. KTS may be applied throughout the growing season to correct potassium deficiencies and aid in increasing drought resistance, winter hardiness and overcoming the stress associated with insect and disease pressures.
solution the following approximate analysis will result

When applying any of the about combinations, use a minimum of

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<tr>
<th>RATIO (v/v)</th>
<th>KTS</th>
<th>N-Sure Pro 30-0-0 = (50% SRN)</th>
<th>APPROXIMATE ANALYSIS</th>
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<td>5 : 1</td>
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(above also contains sulfur)

1 1/2 gallons of spray solution per 1000 ft.² and/or sufficient carrier to achieve adequate coverage for effective plant utilization.

KTS MIXING PROCEDURES:
- Add 1/2 of water to spray tank, begin circulating
- Add recommended amount of KTS or other N and P sources
- Add compatible micronutrients
- Add flowable materials
- Add emulsifiables
- Add any soluble powders and/or water soluble fertilizers. All should be pre dispersed in water before adding to the spray tank solution.
- Complete filling of spray tank to desired volume and continue circulating prior to and during spray application.
- Flush all spray and nurse equipment after usage.

For additional information on N Sure based slow release nitrogen solutions, ask your vendor for a current application guide on these products.

CAUTION (APPLICATION)
- Do not apply KTS to the foliage of plants sensitive (foliar burn) to sulfur
- Do not apply to foliage of any plant when temperatures are above 90º F
- When mixing KTS or any liquid fertilizer with pesticides, always maintain vigorous agitation during filling and spraying operations.

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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