



Tessenderlo
KERLEY
The Specialty Liquid Fertilizer People™

TRISERT® KS

15-0-12+8S

**Foliar Fertilizer Solution containing TRIAZONE SRN,
Potassium and Sulfur for Agricultural Crops**

TRISERT-KS NITROGEN, POTASSIUM AND SULFUR FERTILIZER SOLUTION is a clear liquid containing the patented nitrogen compound TRIAZONE and KTS®, the clearly superior potassium and sulfur fertilizer solution.

TRIAZONE nitrogen means increased crop safety, increased nitrogen absorption, translocation and remobilization when used agricultural crops.

KTS is a clear chlorine-free, high analysis safe and efficient source of potassium and sulfur.

TRISERT-KS contains 40% slow-release nitrogen (SRN), potassium and two forms of sulfur all in a clear solution.

TRISERT-KS contains 1.7 pounds of N, 1.4 pounds of K₂O and 0.9 pounds of sulfur per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION — MAY CAUSE IRRITATION

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 0 ° F., as crystallization may occur. 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.

Follow directions carefully, including precautions for safe handling

DIRECTIONS FOR USE

TRISERT-KS may be applied as a foliar spray application on all field and specialty crops to enhance growth and quality, correct nutritional deficiencies and help plants rebound from stressful conditions.

TRISERT-KS may be applied as a concentrate or dilute solution by ground or aerial application. Apply with sufficient water to achieve adequate plant coverage especially during periods of low humidity and high temperature to achieve the maximum benefit of foliar fertilization.

TRISERT-KS is compatible with most crop protection chemicals. In the absence of published data Tessenderlo KERLEY, inc. recommends testing for compatibility in all spray combinations by a simple jar test with appropriate concentrations. Care should be taken not to blend TRISERT-KS with highly acidic materials and materials containing a high level of free ammonia.

<u>VEGETABLES</u>	<u>RATE</u> (QTS/ACRE)	<u>TIME OF APPLICATION</u>
Asparagus	6 - 10	Beginning at mid-fern development, then at 14 to 21 day intervals.
Beans (Dry)		
multiple	2 — 4	Apply late bud and early bloom.
Beans (green, lima)	4 — 6	Early flower and repeat in 7 to 10 days.
Broccoli	6 - 10	First application after thinning, then 3 weeks before head formation and repeat in 7 to 10 days.
Cabbage	6 - 10	First application after thinning, then early head formation and repeat after 14 to 21 days.
Cantaloupes	6 - 10	Early flowering and repeat in 7 to 10 days.
Carrots	4 - 6	When plants are 3 to 6 inches tall, repeat at three week intervals or as required.
Cauliflower	6 - 10	First application after thinning or transplant, other applications at early head set and repeat at 10 to 14 day intervals.
Celery	4 - 6	When plants are 8 to 12 inches tall and repeat at 10 to 14 day intervals.
Corn (Sweet)	4 - 6	When plants are 12 to 24 inches high, then at tassel emergence and repeat after pollination.
Cucumbers		
single application	10 - 16	Early fruit set.
multiple application	4 - 6	Early flower and repeat at 10 to 14 day intervals.
Eggplant	4 - 6	At bud stage and repeat at 10 to 14 day intervals.
Lentils	2 - 4	Early flowering and repeat at 10 to 14 day intervals.
Lettuce	4 - 6	After thinning, then at early head formation and repeat at 10 to 14 day intervals.
Okra	4 - 6	At bud stage and repeat at 10 to 14 day intervals.
Onions	2 - 6	Mid-set development and repeat at 14 to 21 day intervals.
Peas (dry)	2 - 6	Apply late bud stage, early bloom.
Peas (green/fresh)	2 - 6	Apply late bud stage, early bloom. Repeat every 7 days through pod set.
Peppers	4 - 6	Early fruit set and repeat at 10 to 14 day intervals.
Spinach	6 - 10	When sufficient foliage is present and repeat at 14 to 21 days.
Squash	6 - 10	Early fruit set and repeat at 10 to 14 day intervals.

<u>VEGETABLES</u>	<u>RATE</u> (QTS/ACRE)	<u>TIME OF APPLICATION</u>
Tomatoes		
(Process)		
single application	10	Apply 10 to 14 days after full bloom.
multiple application	4 - 6	At full bloom and repeat at 10 to 14 day intervals until 2 weeks before harvest.
Tomatoes		
(Fresh)		
single application	10	Apply 10 to 14 days after full bloom.
multiple application	4 - 6	At full bloom and repeat at 10 to 14 day intervals until harvest is near completion.
Watermelons	6 - 10	Early flowering and repeat in 7 to 10 days.
Other Crops	4 - 6	When sufficient foliage is present, try on a small area until more experience and trials have been completed to determine if higher rate is desirable.

FERTIGATION

SPRINKLER IRRIGATION - Beginning at the 3rd to 4th leaf stage, apply 2 to 5 gallons per acre per application every 10 to 14 days based on crop requirements.

DRIP IRRIGATION - Apply 1 to 5 gallons per acre per application 3 to 6 times during the growing season as needed.

<u>FRUITS & NUTS</u>	<u>RATE</u> (QTS/ACRE)	<u>TIME OF APPLICATION</u>
Almonds	6 - 10	Full leaf. Repeat at early nut expansion.
Apples	2 - 4	Apply in a minimum of 100 gallons of water spray solution. Begin at first full leaf and apply as needed during the growing season.
Apricots	2 - 4	Prior to fruit set.
Blueberries	6 - 10	Early fruit set and repeat at early fruit color.
Caneberries	4 - 6	Prior to fruit set.
Cherries	2 - 4	Apply in a minimum of 100 gallons of water per acre. For best results apply from full bloom to fruit formation.
Citrus	6 - 10	Early bloom and repeat after fruit set.
Winter rate	12 - 30	Apply in mid-January and repeat as necessary.
Cranberries	4 - 6	Hook stage and repeat after fruit set.
Filberts		
single application	10 - 16	Early nut filling.
multiple application	4 - 6	Early leaf expansion and repeat at 14 to 21 day intervals.

<u>FRUITS & NUTS</u>	<u>RATE</u> (QTS/ACRE)	<u>TIME OF APPLICATION</u>
Grapes		
Table	2 - 4	Prior to fruit set.
Raisin	2 - 4	When sufficient foliage is present. Repeat as needed.
Wine	2 - 4	When sufficient foliage is present. Repeat as needed.
Olives	4 - 6	Early fruit development and repeat as needed.
Peaches - Nectarines	6 - 10	Prior to fruit set.
Pears	4 - 6	Prior to fruit set or post-harvest.
Pecans	4 - 6	Full leaf. Repeat at early nut expansion.
Plums	6 - 10	Prior to fruit set.
Prunes	2 - 4	Full leaf. Repeat as needed.
Strawberries	2 - 3	Early flowering and repeat every 14 days through harvest. Initiate fall application when new growth reaches 3 inches in height.

TRISERT-KS may be applied in a concentrate spray (50 to 100 gallons of water) or dilute spray (200 to 400 gallons of water). Contact your local dealer on dilution rates less than 50 gallons per acre.

FERTIGATION

SPRINKLER IRRIGATION - Apply 2 to 5 gallons per acre per application every 10 to 14 days based on crop requirements.

DRIP IRRIGATION - Apply 1 to 5 gallons per acre per application 3 to 6 times during the season when roots are actively growing as needed.

<u>FIELD CROPS</u>	<u>RATE</u> (QTS/ACRE)	<u>TIME OF APPLICATION</u>
Alfalfa	4 - 6	Apply after each cutting when sufficient foliage is present.
Canola	2 - 4	Apply just prior to bolting.
Corn Field	4 - 6	When plants are 12 to 24 inches high, then at tassel emergence and repeat after pollination.
Seed	4 - 6	Before detasseling and repeat after pollination.
Cotton		
Seedling-	3 - 4	After first true leaves appear.
After seedling stage	2 - 4	May be applied in combination with crop protection chemicals and growth regulators.
Boll development	4 - 12	Early boll formation and repeat at 14 to 21 day intervals.
Flax	6 - 10	Early boll development.
Grain Sorghum	4 - 6	After pollination.
Grass (Seed Production)	10 - 16	Seed head elongation.
Hops	4 - 6	Before cone development.
Peanuts		
single application	10 - 16	Early pod development.
multiple application	4 - 6	Early bloom and repeat at 14 to 21 day intervals until pods are filled.

<u>FIELD CROPS</u>	<u>RATE</u> (QTS/ACRE)	<u>TIME OF APPLICATION</u>
Potatoes		
multiple application	2 - 6	Apply at tuber initiation through bulking. Repeat as needed.
Rice	6 - 10	Panicle initiation. Repeat as required.
Small Grains	6 - 10	Tiller to seed head formation.
Soybeans	4 - 6	Early flower and repeat in 14 to 21 days.
Sugar Beets	10	10 to 12 leaf and repeat at 20 leaf stage.
Sunflower	4 - 6	When outer seeds start to fill, repeat in 10 to 14 days.
Sweet Potatoes	4 - 6	Tuber initiation and repeat at 10 to 14 day intervals.
Tobacco	6 - 10	Plant bed stage to near maturity as needed to maintain crop growth and quality.

FERTIGATION

CENTER PIVOT - Apply 3 to 5 gallons per acre per application as needed based on crop requirements

DRIP IRRIGATION - Apply 3 to 5 gallons per acre per application 3 to 6 times during the growing season as needed.

SPRINKLER IRRIGATION - Beginning at the 3rd to 4th leaf stage, apply 3 to 5 gallons per acre per application every 10 to 14 days based on crop requirements.

CHRISTMAS TREES, RATE TIME OF APPLICATION ORNAMENTAL AND (QTS/ACRE) NURSERY STOCK.

FOLIAR	4 - 6	When sufficient foliage is present. Ornamental and nursery stock vary widely in growth habit and leaf texture. Some varieties are more susceptible to leaf or tip burn than others. It is recommended that the user apply a diluted solution to a few plants and observe for a week before general applications are made.
--------	-------	---

TRISERT-KS may be applied in a concentrate spray (50 to 100 gallons of water) or dilute spray (200 to 400 gallons of water) per acre. Contact your local dealer on dilution rates less than 50 gallons per acre.

A rate of 6 qts./acre is equivalent to 4.41 oz./100 square foot.

Mixing Procedures When Tank Mixing TRISERT-KS

- Add 1/2 of total water to spray tank
- Start circulating material in tank
- Add recommended amount of TRISERT-KS
- 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 spray application.
- Flush all spray and nurse equipment after usage.

TECHNICAL DATA INFORMATION

PLANT NUTRIENT CONTENT, Wt. %

Total Nitrogen (N)	15.0 Min
Soluble Potash (K ₂ O)	12.0 Min
Sulfur (S)	8.0 Min

TYPICAL DISTRIBUTION OF NITROGEN FORMS

% OF TOTAL N

Slow-release Nitrogen, Total SRN	60
From Triazone Compounds	54
From Other N Compounds	4
Urea Nitrogen	40

Typical Properties

Specific Gravity 60°/60° F	1.357
pH	10.3
Salting-Out Temperature ° F	<0
Appearance	Clear, lt. blue

FORMULATION AND APPLICATION FACTORS, (60°F)

Density, Lbs/Gallon	11.3
Volume, Gallons/Ton	177.0

	<u>N</u>	<u>K₂O</u>	<u>S</u>
Pounds per gallon	1.7	1.4	0.9
Gallons for One Pound	0.59	0.74	1.11

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.

TRISERT and KTS are registered trademarks of Tessenderlo KERLEY Inc.

Tessenderlo KERLEY, Inc
P.O. Box 15627
Phoenix, Arizona 85060 U.S.A.
602-889-8300
800-525-2803
e-mail: info@tkinet.com
www.tkinet.com

©Tessenderlo KERLEY, inc. 1996

TK0501