Slow-release Nitrogen Fertilizer Solution
30-0-0

Trisert®-N+

Application Guide for Agriculture Crops

Tessenderlo KERLEY

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.

WARNING: 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-N+ NITROGEN FERTILIZER SOLUTION is a clear solution containing the patented slow-release nitrogen compound TRIAZONE. TRIAZONE nitrogen means increased crop safety, increased nitrogen absorption, translocation and remobilization when used on agricultural crops including vegetable, fruit, nut and field crops.

Of the total nitrogen contained in Trisert-N+, 50% of the N is in the SRN form, the balance is from low biuret urea.

Trisert-N+ may be applied as a foliar spray application on all field crops to enhance growth and quality and to correct nitrogen deficiencies.

Trisert-N+ may be soil applied as a band, sidedress or injected through the irrigation system; sprinkler, drip or center pivot.

Trisert-N+ contains 3.15 pounds of nitrogen per gallon.

Trisert-N+ 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-N+ gives the grower excellent crop safety and helps promote uniform plant growth.

Trisert-N+'s normal nitrogen release pattern is 8 to 10 weeks.

Trisert-N+ is well suited to the custom formulation of fertilizer blends and is compatible with many phosphorus, potassium and micronutrient sources as well as many crop protection chemicals. In the absence of published data, Tessenderlo KERLEY recommends testing for compatibility in all spray combinations by a simple jar test with appropriate concentrations. Care should be taken not to blend Trisert-N+ with highly acidic materials and materials containing a high level of free ammonia.

KEEP OUT OF REACH OF CHILDREN • USE CAUTION WHEN HANDLING

SUGGESTED APPLICATION RATES

VEGETABLES	RATE (QTS/ACRE)	TIME OF APPLICATION
Asparagus	6 - 10	Beginning at mid-fern development, then at 14 to 21 day intervals.
Beans (green, lima)	4 - 6	Early flower and repeat in 7 to 10 days.
Broccoli, Brussel Sprouts, Cabbage and Cauliflower	6 - 10	Prior to head formation and repeat in 10 to 14 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. Melons and Squash	6 - 10	Early flower and repeat at 10 to 14 day intervals.
Kale	6 - 10	When sufficient foliage is present.
Lentils	4 - 6	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 and Garlic	6 - 10	Mid-set development and repeat at 14 to 21 day intervals.
Peas	4 - 6	Early flowering and repeat in 10 to 14 days.
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.
Tomatoes (Process & Fresh)	6 - 10	Apply 10 to 14 days after full bloom.
Other Crops	4 - 6	When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rate is desirable.

SUGGESTED APPLICATION RATES

FRUITS/NUTS	RATE (QTS/ACRE)	TIME OF APPLICATION
Almonds, Filberts, Pecans, Walnuts	6 - 10	Full leaf. Repeat at early nut expansion.
Apples	4 - 6	Begin at first full leaf and apply as needed during the growing season.
Apricots	4 - 6	Prior to fruit set.
Blueberries	4 - 6	Early fruit set and repeat at early fruit color.
Caneberries	4 - 6	Prior to fruit set.
Cherries, Peaches, Pears, Plums	6 - 10	Prior to fruit set.
Citrus	6 - 10	Early bloom and repeat after fruit set.
Winter	12 - 30	Apply in mid-January and repeat as necessary.
Cranberries	4 - 6	Hook stage and repeat after fruit set.
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.
Strawberries	4 - 6	Early flowering and repeat every 14 days through harvest. Initiate fall application when new growth reaches 3 inches in height.
Other Crops	4 - 6	When sufficient foliage is present or at early fruit set. Try on a small area until more experience and trials have been completed to determine if higher rate is desirable.

Trisert-N+ 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 2 to 5 gallons per acre per application 3 to 6 times during the season when roots are actively growing as needed.

SUGGESTED APPLICATION RATES

FIELD CROPS	RATE (QTS/ACRE)	TIME OF APPLICATION
Alfalfa	4 - 12	Apply after each cutting when sufficient foliage is present.
Canola	4 - 8	Apply just prior to bolting.
Corn (Field)	4 - 6	When plants are 12-24 inches high, then at tassel emergence and repeat after pollination.
Corn (Seed)	4 - 6	Before detasseling and repeat after pollination.
Cotton	2 - 4	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)	8 - 12	Seed head elongation.
Hops	4 - 6	Before cone development.
Peanuts	4 - 6	Early bloom and repeat at 14 to 21 day intervals until pods are filled.
Potatoes	6 - 10	Tuber initiation and repeat at 10 to 14 day intervals until maximum tuber development has occurred.
Rice	8 - 12	Panicle initiation. Repeat as required.
Small Grains	6 - 10	Tillering through flag leaf emergence.
Soybeans	6 - 10	Early pod formation and repeat in 14 to 21 days.
Sugar Beets	8 - 12	10 to 12 leaf and repeat at 20 leaf stage.
Sunflower	6 - 10	When outer seeds start to fill, repeat in 10 to 14 days.
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.

SUGGESTED APPLICATION RATES

CHRISTMAS TREES, ORNAMENTAL & NURSERY STOCK	RATE (QTS/ACRE)	TIME OF APPLICATION
	4 - 6	As needed or at 14 to 21 day intervals.

Mixing Procedures When Tank Mixing TRISERT-N+

- Add 1/2 of total water to spray tank
- Start circulating material in tank
- Add recommended amount of TRISERT-N+ or Trisert-N+ based N-P-K- fertilizer blend
- 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.

When additional potassium and sulfur are needed in your fertility program, KTS® (0-0-25+17S), potassium thiosulfate, may be blended with TRISERT-N+. Contact your fertilizer dealer for further information.

KTS is chloride free and contains thiosulfate sulfur. It is the highest analysis of K plus S in a clear liquid fertilizer. KTS and Trisert-N+ mix easily together. Consult the KTS Application Guide for further information on the use of KTS on specific crops.

TECHNICAL DATA INFORMATION
TRISERT-N+ NITROGEN FOLIAR FERTILIZER SOLUTION
(26-0-0+0.5B)

PLANT NUTRIENT CONTENT

Total Nitrogen (N), Wt.%	30.0 Min
Urea Nitrogen (N), Wt.%	15.0 Typical
Slow-Release Nitrogen (N), Wt.%	15.0 Typical

TYPICAL DISTRIBUTION OF NITROGEN FORMS, % OF TOTAL N

Slow-release Nitrogen (SRN)	50.0
From Triazone Compounds	46.0
From Other N Compounds	4.0
Urea N	50.0

TYPICAL PROPERTIES

Specific Gravity, 60˚ /60˚F	1.26
Appearance	Lt. Blue

FORMULATION AND APPLICATIONS FACTORS

Density, Lbs/Gallon (60˚F)	10.5
Volume, Gallons/Ton (60˚F)	190.5
Lbs N/Gallon	3.12
pH	9.5
Salting-Out Temperature, ˚F	<0

The following chart is provided as a guide when additional potassium from KTS® (0-0-25+17S) is needed with TRISERT-N+**.**

APPROXIMATE ANALYSIS OF TANK MIX

KTS 0-0-25+17S	RATIO :	TRISERT-N+ 30-0+0 50% SRN	=	APPROXIMATE ANALYSIS OF TANK MIX
1	:	1	=	14-0-13-9S
1	:	2	=	19-0-9-6S
1	:	3	=	22-0-7-5S
1	:	4	=	23-0-6-4S
5	:	5	=	24-0-5-3S
•	:	•	=	••••••••
1	:	2	=	9-0-17-12S
1	:	3	=	7-0-19-13S
1	:	4	=	5-0-20-14S
1	:	5	=	4-0-21-15S

If a lower amount of slow-release nitrogen is desired, the fertilizer blender has the option of mixing Trisert-N+ and low-biuret urea (46-0-0) together. The following chart provides the correct mixing ratios based on one pound of actual N. Sufficient water must be added to the following to dissolve the urea in the blend .

% SRN BLEND DESIRED	Trisert-N+ 50% SRN FLUID OZ.	LOW-BIURET UREA (46-0-0) Lbs.
25% SRN	20.3	1.08
35% SRN	28.4	.65
40% SRN	32.5	.43

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