

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.

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-NB is a revolutionary foliar fertilizer that contains *triazone*, a patented, slow-release nitrogen compound.

TRISERT-NB may be applied either undiluted or diluted (with water) for aerial or ground application. Use sufficient carrier to adequately cover crop foliage.

General recommendations are listed below.

VEGETABLES	RATE (QTS/ACRE)	TIME OF APPLICATION
Asparagus	6 - 10	Beginning at mid-fern development, then at 14 to 21 day intervals.
Beans (Dry) single application	10	Early pod formation.
multiple application	4 - 6	Early flower and repeat in 10 to 14 days.
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.

KEEP OUT OF REACH OF CHILDREN • USE CAUTION WHEN HANDLING

VEGETABLES	RATE (QTS/ACRE)	TIME OF APPLICATION
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	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	4 - 6	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.
Squash	6 - 10	Early fruit set and repeat at 10 to 14 day intervals.
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.

VEGETABLES	RATE (QTS/ACRE)	TIME OF APPLICATION
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.

FRUITS/NUTS	RATE (QTS/ACRE)	TIME OF APPLICATION
Almonds	6 - 10	Full leaf. Repeat at early nut expansion.
Apples	4 - 6	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	4 - 6	Prior to fruit set.
Blueberries	6 - 10	Early fruit set and repeat at early fruit color.
Caneberries	4 - 6	Prior to fruit set.
Cherries	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.
Filberts single application	10 - 16	Early nut filling.
multiple application	4 - 6	Early leaf expansion and repeat at 14 to 21 day intervals.
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.
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.

FRUITS/NUTS	RATE (QTS/ACRE)	TIME OF APPLICATION
Plums	6 - 10	Prior to fruit set.
Prunes	2 - 4	Full leaf. Repeat as needed.
Olives	4 - 6	Early fruit development and 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.

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.

FIELD CROPS	RATE (QTS/ACRE)	TIME OF APPLICATION
Alfalfa	4 - 6	Apply after each cutting when sufficient foliage is present.
Canola	4 - 8	Pre-bloom.
Corn	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		
Seedling-	3 - 4	After first true leaves appear.
After seedling	2 - 4	May be applied in combination stage with crop protection chemicals and growth regulators.
Boll	2 - 4	Early boll formation and repeat development 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.
Potatoes		
single application	10 - 16	Mid-tuber development.
multiple application	4 - 6	Tuber initiation and repeat at 10 to 14 day intervals until maximum tuber development has occurred.

FIELD CROPS	RATE (QTS/ACRE)	TIME OF APPLICATION
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, ORNAMENTAL & NURSERY STOCK	RATE (QTS/ACRE)	TIME OF APPLICATION
	4 - 10*	When sufficient foliage is present. TRISERT-NB, has been applied undiluted to some types of ornamental and nursery stock. Since these plants vary widely in growth habit and leaf texture, some types are more susceptible to leaf or tip burn than others. It is recommended that the user try only a few plants at undiluted or concentrated rates and observe for a week before general applications are made.

*A rate of 10 qts./acre is equivalent to 7.35 oz./1000 square ft.

Mixing Procedures When Tank Mixing TRISERT-NB

- Add 1/2 of total water to spray tank
- Start circulating material in tank
- Add recommended amount of TRISERT-NB
- 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-NB. Contact your fertilizer dealer for further information.

TRISERT-NB may be applied with pesticide applications. In absence of specific information regarding compatibility, it is recommended that a jar test be utilized to determine specific compatibilities with pesticides and other nutrient sources.

GOOD NITROGEN MANAGEMENT IS THE KEY

Successful nitrogen application rates are dependent upon a number of factors, such as soil type, organic matter content, soil nitrate level, previous crop, irrigation or non-irrigation, variety, planting date, etc. Unexpected weather variations make preplant and /or early season nitrogen application rates difficult to recommend. To achieve efficiency, nitrogen fertilizer use should be considered as a dependent production variable. Total nitrogen applied will depend upon the needs of the developing plant and those environmental factors responsible for the production system in each field.

Soil test recommendations and specific nitrogen rates are usually for average conditions only. For efficient nitrogen use, use starter fertilizer, band applications during cultivation, and foliar applications of TRISERT-NB as the plant's needs dictate.

TRISERT-NB contains *triazone*, a new, patented, highly-concentrated form of nitrogen in which three carbon atoms are joined by three nitrogen atoms to form a strong chemical bond. This bond provides for a slow nitrogen release, which results in less burn and better leaf absorption. Better absorption means better fertilizer performance and better crop yields.

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TECHNICAL DATA INFORMATION TRISERT-NB NITROGEN FOLIAR FERTILIZER SOLUTION (26-0-0)

PLANT NUTRIENT CONTENT

Total Nitrogen (N), Wt. % 26.0 Min

TYPICAL DISTRIBUTION OF NITROGEN FORMS, % OF TOTAL N

Slow-release Nitrogen (SRN) 33.0
From Triazone Compounds 31.0
From Other N Compounds 2.0
Urea N 67.0

TYPICAL PROPERTIES

Specific Gravity, 60° /60°F 1.21
pH 8.7
Salting-Out Temperature, °F <0
Appearance Clear, Green

FORMULATION AND APPLICATIONS FACTORS

Density, Lbs/Gallon (60°F) 10.1
Volume, Gallons/Ton (60°F) 198.0

Pounds N Per Gallon TRISERT-NB 2.63
Gallons TRISERT-NB For One Pound N 0.38

The following chart is provided when additional potassium from KTS® (0-0-25+17S) is needed with TRISERT-NB.

APPROXIMATE ANALYSIS OF TANK MIX

KTS 0-0-25+17S	RATIO :	TRISERT-NB 26-0-0	=	APPROXIMATE ANALYSIS OF TANK MIX
1	:	1		12-0-13-9S
2	:	1		8-0-17-12S
3	:	1		6-0-19-13S
4	:	1		5-0-20-14S
5	:	1		4-0-21-15S

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