



NITRO+K 22-0-16

WITH 82% SMART NITROGEN PLUS POTASSIUM CARBONATE

- **No Nitrates - Environmentally Friendly**
- **Low Salt Index - No Burn**
- **Potassium Carbonate for Added K**

GUARANTEED ANALYSIS:

Total Nitrogen (N)22%
 3.3% Urea Nitrogen
 18.7% Slowly Available Nitrogen*
 Soluble Potash (K2O) 16%
 Sources: Low Biuret Urea, Methylene Urea, Potassium Carbonate
 *18.7% Slowly Available Nitrogen from Methylene Urea.
 Weight per gallon12.1 lbs.
 Salt Index60
 1 gallon contains2.66 lbs. N
 1 gallon contains1.9 lbs. K
 1 Ton (2,000 lbs.) = 166 gallons

PRODUCT DESCRIPTION:

Nitro+K (22-0-16) is a crystal clear liquid nitrogen / potassium solution that can be applied by ground or by air. Because of the sticker benefit of the slow release nitrogen, there is improved K uptake. Nitro+K does not contain any chlorides or sulfates. The low salt formulation was developed to supplement standard soil fertility practices as a foliar feed on crops. Because Nitro+K can be used as a foliar applied nitrogen / potassium source the amount of soil applied nitrogen can be reduced, thus decreasing losses from nitrate leaching and volatilization. Each gallon of Nitro+K contains 2.66 lbs. nitrogen and 1.9 lbs. potassium. Nitro+K can also be used as a sticker to enhance chemical pesticide uptake.

CAUTION:

The following conditions must be observed in order to apply Nitro+K successfully. Failure to follow these instructions may result in damage to the plant.

- DO use Nitro+K under conditions of optimum plant growth including highest humidity, moderate temperatures and adequate soil moisture.
- DO add, as a minimum, equal amount of water. Do use sufficient water to provide thorough coverage.
- DO add wettable or soluble powders, emulsifiables or flowables to water in the mix and wet, dissolve or disperse before adding Nitro+K.
- DO use the correct label spray rates of any pesticide used with Nitro+K.
- DO consult your local distributor for rate and application instructions.
- DO NOT use when crop is under heavy stress from pests, heat

- **Stress reduction**
- **Induced Potassium Uptake**
- **For Extended Feeding**

Foliar Spray Recommendation		
Application	Rate	Frequency / Notes
Outside Nursery & Tree Farm, Field Grown Applications	Foliar Spray: 2.5 pints per 100 gallons water or 2 pints per acre (500 ml per 100 liters water)	Apply after transplanting. Repeat the applications every 30 days or as needed.
	Continuous Feed: 6 oz per 100 gallons water (50 ml per 100 liters water)	
	Soil Applications: 3-4 pints per 100 gallons water (375 - 500 ml per 100 liters water)	
Greenhouse Foliar Spray	Transplanting: Mix 1 oz per gallon of water (8 ml per liter water)	Soak plug tray or foliar spray after transplanting
	Propagation: 1/2 oz per gallon water (4 ml per liter water)	Apply at 2nd leaf stage and then every 10-14 day intervals.
	Maintenance: 2 tsp - 1/2 oz per gallon water (3-4 ml per liter water)	Apply at 10-14 day intervals to supplement nutrient requirements.

Greenhouse & Nursery Injection Ratio		
1:100	100 PPM Nitrogen	120 ml in 4 L of stock tank mix

Transplant Solutions		
Application	Rate	Frequency / Notes
Young Trees for Growth Response	2-3 quarts in 100 gallons of water (Drench roots at time of transplant with 1-2 gallons of mix (4 -8 liters)
Vegetables	1-2 Quarts in 100 gallons of water (250-500 ml in 100 liters of water)	Drench plug and plant immediately. Do not allow plants to dry or wilt.
Important: The total amount of Nitro+K used should not exceed 3 gallons per acre (28 liters per hectare)		

or inadequate moisture levels.

- DO NOT apply by aircraft if surface wind is greater than 5 miles per hour to assure adequate crop coverage and droplet deposition.
- DO NOT spray to run off. Do not spray to visible droplet coalescence. Do not allow concentrated spray mist to run on fruit or leaves.
- DO NOT apply during the heat of the day.

CROP TREATMENT RECOMMENDATIONS:

All recommendations are based on broadcast spray application. When band or directed sprays are used, calculate the rate for the "sprayed acre" only. For the most field and horticultural crops the early season applications are directed sprays.

For treatment of individual trees and vines, divide rate per acre by number of trees or vines per acre.

STORAGE & DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Triple rinse container; empty rinsate into spray tank. Dispose of the empty container according to approved local practices; contact county agricultural commissioner for disposal information.

Foliar Turf Applications	
Application	Rate
Fairways, Roughs, Sports Turf, Sod and Lawns	Apply 3 – 5 gallons per acre (9 – 15 oz. per 1,000 sq. ft.) every 14 to 28 days during active growth period. Apply in a minimum of 87 gallons of water per acre (minimum of 2 gallons of water per 1,000 sq. ft).
Pastures	Apply 3 – 5 gallons per acre (9 – 15 oz. per 1,000 sq. ft.) every 14 to 28 days during active growth period. Apply in a minimum of 87 gallons of water per acre (minimum of 2 gallons of water per 1,000 sq. ft).
Fertigation	Apply 3 – 5 gallons per acre (9 – 15 oz. per 1,000 sq. ft.) with the irrigation water. Repeat as needed every 14 days during active growth period.

Citrus	
Application	Rate
Mature Trees	Apply as a foliar spray at 1-2 gallons per acre on mature trees 3-4 times a year
Trees 6 months - 3 years of age	Apply as a foliar spray or ground injection at a rate of 1-2 gallons per acre in 100 gallons of water 5-6 times per year. Also can be applied through irrigation system at 2 gallon per acre.

BERRIES	Foliar Rates / Acre (Hectare)	Application Timing / Intervals
Strawberries	2 - 4 qts. 5 - 9 Liters	Apply 4 weeks prior to bloom. Apply at fruit set. Repeat every 14-21 days.
Blueberries	4 - 6 qts. 9 - 14 Liters	Apply at fruit set. Repeat at early fruit color.
Raspberries, Black berries and other Caneberries	3 - 5 qts. 7 - 12 Liters	Apply prior to fruit set.
Cranberries	3 - 5 qts. 7 - 12 Liters	Apply at hook set. Repeat after fruit set.

VEGETABLE CROPS	Foliar Rates / Acre (Hectare)	Application Timing / Intervals
Tomatoes, Peppers, Celery	4 - 8 qts. 9 - 18 Liters	First application - Apply at early bloom. Repeat at fruit set and again 15 to 30 days later
Lettuce, Spinach, and Other Leafy Vegetables	4 - 10 qts. 9 - 23 Liters	Apply 3 to 4 weeks prior to harvest to strengthen canopy to reduce sunburn.
Cole Crops Broccoli, Brussel Sprouts, Cabbage & Cauliflower	4 - 6 qts. 9 - 14 Liters	Apply after transplanting or thinning, when adequate foliage. Apply again 7 to 10 days prior to harvest if double cropping. Use as needed to supplement nutritional requirements
Cucurbits, Melons, Cucumbers, Pumpkins, Watermelons and Squash and other Cucurbit Crops	2 - 5 qts. 6 - 12 Liters	Apply at early head, transplanting, thinning or at 2nd true leaf stage. Apply every 7 to 10 days.
Beans & Peas (Snap, Green, Lima)	3 - 8 qts. 7 - 18 Liters	For single application apply at early bloom.
Potatoes, Onions, and Other Vegetable Root, Bulb, or Tuber Crops	3 - 4 qts. 7 - 9 Liters	For multiple applications apply during early flower. Repeat every 10 - 14 days.
	3 - 6 qts. 7 - 14 Liters	Apply shortly after first flower appears. Repeat 10 to 14 days later.
	5 - 8 qts. 16 - 19 Liters	Apply after transplanting, thinning or at 2nd true leaf stage Apply 1-2 subsequent applications at 10-15 day intervals. Use as needed to supplement nutritional requirements

PERMANENT CROPS	Rate per Acre (Hectare)	Application Timing / Intervals
Almonds, Walnuts, and Other Nut Crops	3 - 5 qts. 7 - 12 Liters	Apply first application at full leaf.
	6 - 10 qts. 14 - 23 Liters	Repeat in 30 days or at early nut expansion to maintain set.
	7 - 10 qts. 16 - 23 Liters	Apply post harvest in 1 or 2 applications.
Plums, Nectarines, and Other Stone Fruit	4 - 6 qts. 9 - 14 Liters	Apply at bud swell to early bloom when increased fruit set is desired. Repeat in 30 days to maintain increased set.
	8 - 12 qts. 18 - 28 Liters	Apply 4 to 6 weeks prior to harvest to improve fruit sizing. Apply post harvest in 1 or 2 applications
	3 - 5 qts. 7 - 12 Liters	Apply first application in bud swell to king bloom. Apply again 30 to 40 days prior to harvest for sizing.
Apples, Pears, and Other Pome Fruit including Papaya	5 - 10 qts. 12 - 23 Liters	Apply post harvest in 1 or 2 applications.
	3 - 5 qts. 7 - 12 Liters	Apply first application at early bloom.
	7 - 9 qts. 16 - 21 Liters	Apply at petal fall to 30 days after bloom.
Citrus Crop (Bearing and Non-Bearing)	8 qts 18 Liters	Apply early spring and on flush growth. Apply at pre-bloom to increase fruit set. Apply at post bloom to 3rd petal fall to increase fruit size and cell elongation. Repeat in 30 days and when nitrogen needs are evident. Can be applied with crop protection sprays.
Olives	4 - 6 qts. 9 - 14 Liters	Apply 3 times per season starting at pre-bloom, early fruit set and 3 - 4 weeks prior to harvest.
Table Grapes, Wine Grapes	2 - 4 qts. 5 - 10 Liters	Apply prior to fruit set. Repeat as needed or at 14 - 21 day
Hops	2 - 3 qts. 5 - 7 Liters	Apply when vines are halfway to wire. Repeat in two weeks. Apply before cone development.
Mangos and Avocados	3 - 8 qts 6 - 18 Liters	Apply early spring and on flush growth to promote healthy growth and flower production. Regular applications of nitrogen are required. Do not fertilize after midsummer.
Bananas	1 - 3 gal. 10 - 30 Liters	Apply as plantation develops or as a supplemental feeding when signs of deficiencies appear.

CAUTION: Keep out of reach of children. In case of contact with eyes, flush immediately with copious amounts of water. Contact a physician. Do not take internally.

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

Manufactured By:

