



# 18-6-12 NURSERY STAR

## LIQUID FERTILIZER SOLUTION *With* 60% TIME-RELEASED NITROGEN

- **No Nitrates**
- **Tank Mix Compatible**

**GUARANTEED ANALYSIS:**

Total Nitrogen (N) . . . . . 18%  
 6.2% Urea Nitrogen  
 1.0% Ammoniacal Nitrogen  
 10.8% Slowly Available Water Soluble Nitrogen\*

Available Phosphate (P<sub>2</sub>O<sub>5</sub>) . . . . . 6%  
 Soluble Potash (K<sub>2</sub>O) . . . . . 12%  
 Derived From: Urea, Methylene Urea, Potassium Carbonate,  
 Monoammonium Phosphate, Phosphoric Acid,  
 \*60% slowly available Nitrogen from Methylene Urea

Weight per gallon . . . . . 10.8 lbs.  
 Weight per litre . . . . . 1.29 kg  
 1 gallon contains . . . . . 1.9 lbs nitrogen  
 pH . . . . . 9  
 1 litre contains 0.22 kg nitrogen  
 Potential acidity equivalent to 573 lbs. Calcium Carbonate  
 per ton.

**PRODUCT DESCRIPTION:**

Nursery Star 18-6-12 with 60% Time-Released Nitrogen is a professional liquid fertilizer solution made from only the highest quality N-P-K raw materials to assure a safe, reliable and efficient product. 18-6-12 provides a balance of quick release nitrogen for initial green up and 60% Time-Released nitrogen for a continuous steady feeding. 18-6-12 contains methylene polymer nitrogen from Nitro-30 (MDU), which resists leaching and provides a release over 8-12 weeks. The phosphorus and potassium are readily available for both foliar and root uptake. The K is a non-chloride source. 18-6-12 provides fast green up without producing flush growth. Since all Growth Products are TRUE CLEAR SOLUTIONS, they are ideal for spray applications nursery applications, foliar feeding of trees, container crops and woody ornamentals.

- **Non Leaching**
- **Low Salt Index / Reduce Salt Build-Up**

Growth Products solutions are non-clogging and non-abrasive to equipment. No special agitation is needed. 18-6-12 does not contain any nitrates, and avoids nitrate leaching. 18-6-12 is compatible with fungicides, herbicides and insecticides and can be mixed and sprayed in one application.

**NURSERY APPLICATIONS:**

Nursery Star (18-6-12) is a high quality, concentrated slow release nitrogen/ potassium solution. It is ideal for both supplement feeding and constant feed of nursery stock for both foliar and root uptake. This clear liquid can be injected through fertigation, drip irrigation or overhead sprinkler systems.

**For Supplemental Feeding:** Use between applications of granular coated fertilizer to level off nutrients that are often not available or depleted because of adverse weather conditions. This will extend nutrient availability at the end of feeding cycle to avoid costly hand topdressing. Apply at the end of growing cycle prior to shipment, as a final feed to avoid labor, waste and spillage.

**For Constant Feed:** Use on all nursery stock, potted and containerized plants as both foliar or root feeding.

**TREE CARE RECOMMENDATIONS:**

Root Application Rates: For determining tree fertilization rates, measure the trunk diameter of the tree (DBH) 4½ feet above ground. Growth Products liquid fertilizers should be injected into the top 4 to 8 inches of soil where feeder roots extend. Start application of fertilizer approximately 2 - 3 feet from tree trunk and extend the same distance from the drip line. A grid pattern should be laid out, and spacing should be every 2½ ft. A minimum of 5 gallons of tank mix should be applied per inch of tree diameter. Inject approximately ½ gal. of fertilizer

18-6-12 NURSERY STAR							
Fluid Ounces of 18-6-12 Nursery Star per Gallon of Stock Tank Water							
PPM Nitrogen	25	50	75	100	150	200	300
PPM Potassium	17	33	50	67	100	133	200
1:500	7	14	21	27	41	55	82
1:300	4	8	12	16	25	33	49
1:200	3	6	8	11	16	22	33
1:100	2	3	4	5	8	11	16
1:50	1	1.5	2	3	4	5	8
1:15 Ratio for Hozon Proportioner							
1:15	0.21	0.41	0.62	0.82	1.23	1.65	2.47

solution at each point.

**Foliar Feeding:** Apply this product through overhead, micro-jet, center pivot sprinkler irrigation. Nursery Star gives you dual efficiency since the nutrients will be absorbed by both the leaves and roots. See ppm chart for rates. For tender plants and greenhouse foliar spray applications use one-half the rate (PPM) you would normally use for drip irrigation feeding. For Hand spray use 1¼ oz to 2½ oz per gallon of water Spray to full coverage.

### NURSERY FOLIAR SPRAY APPLICATIONS

Application	Rate	Notes
Containerized Crops, Woody Ornamentals, Flowering Ornamentals in Shadehouse or Greenhouse, Foliage, Field-Grown Nursery Stock And Trees	Foliar Spray: 1 gallon per 100 gal of water (1 L in 100 L water) Rate Per Gallon: 1¼ - 2½ oz per gal water or 2½ - 5 tbs. per gal water	Thoroughly spray to point of run-off. Apply every 2-4 weeks.
Palms, Deciduous and Evergreen Trees	1.5 gallons per 100 gal of water (1.4 L per 100 L water) Rate Per Gallon: 2 oz per gal or 4 tbs per gal water	Apply Monthly as a foliar spray

**Trees & Ornamentals:** Growth Products liquid fertilizers contain methylene polymer nitrogen, which has an extremely low salt index and resists leaching. 18-6-12 is a true solution and is ideal for root injection and for use through IPM units. Inject no lower than 8" below ground with correctly calibrated fertilizer injector equipment. See Injection Application Rate Chart.

### DAILY DRIP RATE

1:100	50 PPM N	100 PPM N
Ounces 18-6-12 per gal (4 L) of water	1.6 oz (50 ml)	3.2 oz (100ml)

### MONTHLY DRENCH RATES OUNCES 18-6-12 PER 100 CONTAINERS

Container Size	Low Feeding & Sensitive Crops	Medium Feeding Crops
5" Standard	2.5 oz	4 oz
6" Standard	5 oz	8 oz
1 gallon	7.5 oz	12 oz
2 gallon	16 oz	24 oz
3 gallon	28 oz	42 oz
5 gallon	42 oz	63 oz
7 gallon	63 oz	97 oz

**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.

### APPLICATION RATE AT 75 GALLONS PER 1,000 FT<sup>2</sup>

Tank Size in Gallons	Quantity 18-6-12		
	1/2 lb N	1 lb N	2 lb N
75	.25 gal	.5 gal	1 gal
100	.3 gal	.6 gal	1.3 gal
150	.5 gal	1 gal	2 gal
200	.6 gal	1.3 gal	2.6 gal
300	1 gal	2 gal	4 gal
600	2 gal	4 gal	8 gal
1000	3.5 gal	7 gal	14 gal

For ground area method, measure below drip line of tree. Rates of ½-2 lbs of nitrogen are recommended. Evergreens usually require slightly higher nitrogen than deciduous trees

### TREE CARE DBH METHOD\*

Lb. Nitrogen per Inch DBH	18-6-12 per 100 Gal of Water
1/18	73 ounces
1/12	110 ounces
1/6	1.75 gallon

Apply 5 gallons of tank mix per inch diameter. Always measure diameter at 4 ½ feet above ground level  
\*DBH - Diameter at Breast Height

### STORAGE & HANDLING:

**Storage:** All Growth Products professional liquid fertilizers can be stored in normal warehouse areas and are not affected by heat or freezing temperatures. 18-6-12 has a neutral pH and is neither corrosive or abrasive.

**Dilution:** 18-6-12 can be diluted by either adding the concentrate to water or the water to concentrate without any detrimental effects on the final product. Appropriate quantities of water should be added to the tank prior to adding pesticides, fungicides or herbicides. Never mix concentrated materials together without first diluting with water.

**Mixing:** The following mixing procedures should be used after 18-6-12 has been diluted with water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles, 4. surfactants, 5. emulsifiable concentrates. Be sure to agitate during each addition before adding next. When mixing technical materials, check each product's mixing instructions. Apply all of mixture the same day.

Manufactured in the USA By:

