

**IMPROVED**



# TRIPLE 12+

## 12-12-12 LIQUID FERTILIZER *With* 42% SLOW RELEASE NITROGEN AND SALICYLIC ACID

- **BALANCED NUTRITIONAL SPRAY**
- **ACTIVATE SYSTEMIC ACQUIRED RESISTANCE (SAR)**

**GUARANTEED ANALYSIS:**

Total Nitrogen (N) . . . . . 12%  
 6.9% Urea Nitrogen  
 5.1% Slowly Available Water Soluble Nitrogen\*

Available Phosphate (P<sub>2</sub>O<sub>5</sub>) . . . . . 12%  
 Soluble Potash (K<sub>2</sub>O) . . . . . 12%  
 Derived From: Urea, Methylene Urea, Potassium hydroxide,  
 Phosphoric Acid

\*5.1% slowly available Nitrogen from Methylene Urea.

**ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:**

0.1% . . . . . Salicylic acid  
 Weight per gallon: . . . . . 11.16 lbs  
 Weight per liter . . . . . 1.34 Kg  
 pH . . . . . 7

**PRODUCT DESCRIPTION:**

Growth Products Triple 12+ (12-12-12) with 42% Slow Release Nitrogen is a perfect balance of nitrogen, phosphorus and potassium. Triple 12 is made from only the highest quality technical and food grade sources. Growth Products Triple 12 product contains 42% Slow Release Nitrogen (MDU - methylene urea) exclusively from Nitro-30 SRN. This form of nitrogen provides a continuous, steady source of nitrogen that will eliminate dips in the feeding cycle.

Triple 12 also provides a full 8 oz of Salicylic Acid in every gallon. Salicylic acid, the active ingredient in aspirin triggers the plants systemic acquired resistance (SAR). Research has shown that spraying this naturally occurring compound onto plants triggers natural defenses that keep harmful fungi, bacteria, and viruses at bay.

Since all Growth Products fertilizers are TRUE LIQUID SOLUTIONS they are ideal for spray applications for turf, as well as foliar feeding and root injection of trees and ornamentals. Triple 12 WILL NOT SETTLE OUT OF SOLUTION. No special agitation is needed. Triple 12 is compatible with fungicides, herbicides and insecticides, and can be mixed and sprayed in one application.

**SUGGESTED USES:**

Growth Products Triple 12 Liquid Fertilizer provides you with a safe, reliable and uniform release of nutrients for all special turf applications, including those for bentgrass or rye overseeding. Triple 12 is made specifically for use in fertigation systems. Triple 12 is ideally suited for root injection of trees and shrubs, or for foliar spray applications.

**APPLICATION RECOMMENDATIONS:**

**General Turf Applications:** Growth Products Triple 12 can be applied throughout the growing season on warm, transitional and

- **SAFE! No CHLORIDES & LOW SALT INDEX**
- **CONTAINS 100% SOLUBLE SALICYLIC ACID**
- **FAST FOLIAR UPTAKE**

cool season grasses. Application can be started in early spring and continued through late fall at rates of 1/4 lb. N to 1 lb. N per 1,000 sq. ft. (114 g to 454 g / 100 m<sup>2</sup>). Dilute with water according to desired nitrogen rate per 1,000 sq. ft. (See chart)

Turf Programs		
Application	Rate / 1000 ft <sup>2</sup> (100 m <sup>2</sup> )	Notes
Cool & Warm Season Grasses	10 - 25 oz (318 - 796 ml)	Apply every 7 - 28 days
Newly Established Lawns/ Overseeding	25 oz (796 ml)	Apply just after seeding.
Lawn Care	25 - 30 oz	Apply every 4 - 6 weeks
Pastures	3.3 gal per acre (31 L / Ha)	Apply every 2 months.

Turf Applications: Triple 12 Nitrogen Per Liquid Ounce (ml) Apply at desired Nitrogen Rate per 1,000 FT <sup>2</sup> (100 m <sup>2</sup> )		
12-12-12	Nitrogen Rate	Application Timing
10 oz	1/10 lb. N	Weekly release rate
318 ml	0.05 Kg N	
12 oz	1/8 lb. N	2 weeks release rate
382 ml	0.06 Kg N	
25 oz	1/4 lb. N	4 weeks release rate
796 ml	0.12 Kg N	
30 oz	1/3 lb. N	6 weeks release rate
955 ml	0.14 Kg N	
50 oz	1/2 lb. N	8 weeks release rate
1.5 L	0.24 Kg N	

Turf Applications Triple 12 in 100 Gallons (400 L) of Tank Mix Nitrogen Rate per 1,000 FT <sup>2</sup> (100 m <sup>2</sup> )				
If You Apply	1/10 lb N (.05 Kg N)	1/8 lb. N (.06 Kg N)	1/4 lb. N (.12 Kg N)	1/3 lb. N (.16 Kg N)
4 gal per 1,000 FT <sup>2</sup>	1.9 gal	2.4 gal	4.8 gal	6.4 gal
15 L per 100 m <sup>2</sup>	8.58 L	10.3 L	20.6 L	27.5 L
3 gal per 1,000 FT <sup>2</sup>	2.5 gal	3.3 gal	6.5 gal	8.5 gal
10 L per 100 m <sup>2</sup>	12.9 L	15.5 L	31 L	41.3 L
2 gal per 1,000 FT <sup>2</sup>	3.9 gal	4.8 gal	9.6 gal	12.7 gal
7.5 L per 100 m <sup>2</sup>	17.1 L	18.3 L	36.6 L	48.4 L
1 gal per 1,000 FT <sup>2</sup>	7.7 gal	9.6 gal	19.4 gal	25.5 gal
4 L per 100 m <sup>2</sup>	32.2 L	38.7 L	77.5 L	103 L

### TEES & GREENS:

Apply on greens and tees at desired rate (1/10 lb. N to 1/8 lb. N) with a spray unit applying no less than 1 1/2 gallon of mix per 1,000 sq. ft. Triple 12 is compatible with most technical turf products. When mixing with other products be sure to check their dilution rates. Apply every 7 to 21 days or apply along with a summer disease program.

### LANDSCAPED BEDS:

**Annuals, Perennials and Ornamentals:** Triple 12 provides an ideal 1:1:1 ratio for a broad variety of bedding plants. Apply Triple 12 in early spring, or at the time of planting, and repeat application every month. For small areas, mix 3 fluid oz. (6 table-spoons) in a gallon of water and drench soil around plants until runoff. For larger areas, use a reel sprayer at a rate of 1 qt (32 oz.) plus 11 gallons of water. Triple 12 can be applied using a hose-end sprayer, backpack sprayer, or watering can. Triple 12 does not contain chlorides or salts, which often cause leaf and root burn to delicate annuals.

### ROOT & GROUND APPLICATION RATES:

**Trees & Ornamentals:** Triple 12 is a true solution, does not need agitation, is non-abrasive, and can be used in IPM units. Inject no lower than 8" to 10" of soil where feeder roots extend. Start appli-

#### Application Rate at 75 Gallons per 1,000 FT<sup>2</sup>

Tank Size in Gallons	Quantity 12-12-12		
	1/2 lb N	1 lb N	2 lb N
75	48 oz	96 oz	1.45 gal
100	63 oz	116 oz	1.9 gal
150	96 oz	1.45 gal	2.9 gal
200	1.45 gal	2.9 gal	5.8 gal
300	2.2 gal	4.5 gal	9.1 gal
600	2.9 gal	5.8 gal	11.6 gal
1000	5 gal	10 gal	20 gal

For ground area method, measure below drip line of tree. Rates of 1/2 - 2 lbs of nitrogen are recommended. Evergreens usually require slightly higher nitrogen than deciduous trees

#### Tree Care DBH Method

Lb. Nitrogen per Inch DBH	12-12-12 per 100 Gal of Water
1/18	106 fl oz
1/12	1.25 gallons
1/6	2.5 gallons

Apply 5 gallons of tank mix per inch diameter. Always measure diameter at 4 1/2 feet above ground level

cation of fertilizer approximately 2 1/2 ft. from tree trunk and extend two feet beyond drip line. A grid pattern should be laid out, and spacing should be every 2 1/2 ft. Inject approximately 1/2 gal. of fertilizer solution at each point. Use with correctly calibrated fertilizer injector equipment. A minimum of 5 gallons of tank mix should be applied per inch of tree diameter.

**Foliar Applications:** Triple 12 has a low salt index formulation and a neutral pH. It can be used as a foliar applied N-P-K source.

**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.

Mix 1 gallon Triple 12 in 100 gallons of water and spray to run off.

**DBH Method:** 1/18 lb. per inch will apply 1.1 lbs. of nitrogen to an average DBH of 20 inches, 1/6 lb. per inch will apply 3.3 lbs. of nitrogen to the same diameter tree.

#### Greenhouse & Outdoor Plant Care

Plant Type	Rate	Notes
Annuals, Perennials	2.5 oz. per 1 gal of water (20 ml per Liter water)	1 gal of mix will treat 10 sq. ft. Drench soil area around planted area. Repeat every 30 days.
Herbs & Vegetables	0.83 oz. per 1 gal water (6 ml per Liter water)	1 gal of mix will treat 10 sq ft.
Greenhouse Bench, Bed, Trays or Containerized Plants	0.6 oz per 1 gal of water (5 ml per Liter water)	Drench until soil is saturated.

#### Greenhouse & Nursery Injection Ratio

1:100	100 PPM Nitrogen	Mix 8.3 oz in 1 gal water & set injector. (65 ml in 1 L water)
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#### Nursery / Landscape Applications

Application	Rate	Notes
Containerized Crops, Woody & Flowering Ornamentals, Foliage, Field-Grown Nursery Stock And Trees	Foliar Spray: 3 Quarts per 100 gal of water (750 ml in 100 L water)	Thoroughly spray to point of run-off. Apply every 2-4 weeks.
Hand Watering	0.8-1.6 oz per gal water	Saturate Soil - Apply Every 2-4 weeks

### STORAGE & HANDLING:

**Storage:** All Growth Products professional liquid fertilizers can be stored in normal warehouse areas and are not affected by freezing temperatures. Triple 12 has a neutral pH and is not corrosive.

**Mixing:** Triple 12 must be diluted with water prior to mixing with other nutrients or pesticides. High quality buffers allow Triple 12 to be blended with acidic or alkaline materials without detrimental effects. The following mixing procedures should be used after Triple 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. Be sure each product is mixed well before adding the next technical material. It is recommended to apply all of mixture in one day. Always use a jar test before mixing pesticides in your tank.

Manufactured in the USA By:

