



TURF & ORNAMENTAL

Gro-Pro 12-4-12

- Four chelated micronutrients for optimal plant absorption
- Optimal levels of Manganese, Magnesium and Iron
- Designed to overcome plant nutrient deficiencies

Net Contents: 2.5 gal (10 L)
Net Weight: 27.5 lb (12.47 kg)

Gro-Pro 12-4-12

F002873

Guaranteed Analysis:

Total Nitrogen (N)	12%
5.5% Urea Nitrogen	
1% Ammoniacal Nitrogen	
5.5% Water Soluble Nitrogen*	
Available Phosphate (P ₂ O ₅)	4%
Soluble Potash (K ₂ O)	12%
Magnesium (Mg)	0.5%
0.5% Chelated Magnesium (Mg)	
Iron (Fe)	1%
1% Chelated Iron (Fe)	
Manganese (Mn)	0.2%
0.2% Chelated Manganese (Mn)	
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	
Boron (B)	0.02%
Derived From: Urea, Urea-Triazone Solution, Potassium Carbonate, Ammonium Polyphosphate, Iron EDTA, Manganese EDTA, Magnesium EDTA, Zinc EDTA, Sodium Borate.	
*5.5% slowly available Nitrogen from Urea-Triazone Solution	

Soil Amending Ingredients

Active Ingredients	
Humic Acid (derived from Leonardite)	0.5%
Monosaccharides/Polysaccharides (Microbe food)	2%
Wetting Agent (Yucca schidigera extract)	0.1%
Total Other Inert Ingredients	97.4%
Product Specifications:	
Weight per gallon	11.5 lbs.
Weight per liter	1.38 Kg
pH	11
1 gallon contains	1.3 lbs Nitrogen

Product Description:

Gro-Pro 12-4-12 can be used on all varieties of palms, landscape, trees, grasses. This N-P-K solution is enriched with a blend of supplements not contained in conventional fertilizers. It contains slow release nitrogen and 4 essential micronutrients. Our slow release nitrogen acts as a sticker/spreader ensuring coverage of nutrients and beneficial ingredients.

It is ideal for embankments and bunker surrounds where water run-off is a concern. Gro-Pro has been formulated

Condition of Sale and Warranty: Douglas Plant Health, Inc. 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 Douglas Plant Health 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 DOUGLAS PLANT HEALTH, INC OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

and tested for low salts so that it will not injure young turf or plant materials. It can be used for low water volume spray programs, as recommended for urban plantings, where paved areas make it difficult to apply large volumes of water. This program utilizes less water than a standard program. Be sure to follow all mixing instruction carefully.

DO NOT APPLY NEAR WATER, STORM DRAINS, OR DRAINAGE DITCHES. DO NOT APPLY IF HEAVY RAIN IS EXPECTED. APPLY THIS PRODUCT ONLY TO YOUR LAWN/GARDEN, AND SWEEP ANY PRODUCT THAT LANDS ON THE DRIVEWAY, SIDEWALK, OR STREET, BACK ONTO YOUR LAWN/GARDEN

In Virginia, this lawn fertilizer, which contains phosphate, is intended only for nonagricultural use on (i) turf during its first growing season, (ii) turf areas being repaired or renovated, and (iii) turf where a soil test performed within the last 3 years indicates a phosphate deficiency. This fertilizer is not intended for the routine maintenance of turf.

FIRST AID	
IF SWALLOWED:	Rinse mouth. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a poison center or doctor/physician if you feel unwell.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists. Get medical advice/attention.
IF ON SKIN:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
IF INHALED:	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist.
You may also contact 1-352-323-3500 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101). Keep out of reach of children (P102). Read label before use (P103).	
STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

The following precautionary statements and pictograms are based on the Globally Harmonized System of classification and labeling of chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA).



Warning
H320 Causes Serious Eye Irritation

Douglas Plant Health
1550 E. Old 210 Highway
Liberty, MO 64068
(800) 648-7626
www.DouglasPlantHealth.com



Application Recommendations:

Tees & Greens: Apply to tees at a rate of 1/10 to 1/8 lb. N per 1,000 sq. ft. every 7 to 14 days with a spray unit, using 1/3 - 2 gallon total solution per 1,000 sq.ft. This is the recommended rate for all turfgrass species, including the varieties of bentgrass, such as A-1, A-4 and Seaside II. Applying slow release nitrogen will limit excess growth and reduce the buildup of unwanted thatch.

Fairways: Apply on fairways at a rate of 1/4 to 1/3 lb. N per 1,000 sq. ft., every month with a spray unit, applying no less than 2 gal of tank mix, per 1,000 sq. ft. Gro-Pro can be applied through a fertigation system. The use of a product that contains a high amount of slow release nitrogen has been shown to eliminate surge growth that produces unwanted thatch. It can be tank mixed with most pesticides.

Soil Injection for Trees & Shrubs: Begin root injection approximately 2-4 ft. from trunk. Fertilize under entire canopy in grid pattern. Inject to a depth of 6"-8" for trees. Inject at a rate of 1 qt. of tank mix per injection site.

Soil Injection for Palms: Begin root injection approximately 6"-4 ft. from base of palm.

Soil Drench: 4 oz. in 2 - 5 gal water for smaller trees. Transplant Fertilization: Use as a drench of root ball and soil when planting trees and shrubs. Gro-Pro contains humic acid and yucca (a natural wetting agent) which will help loosen compacted clay soils.

Caution: Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Information about the components of this lot of fertilizer may be obtained by writing to Douglas Plant Health, 1550 E. Old 210 Highway, Liberty, MO 64068 and giving the lot number which is printed on the front of the container.

SOIL APPLIED ONLY

12-4-12 Nitrogen per Liquid Ounce (ml)

Apply at desired Nitrogen rate per 1,000 sq. ft. (100 sq. m.)

12-4-12	Nitrogen Rate	Application Timing
10 oz / 295 ml	1/10 lb N / 46 g N	Apply every 7-14 days.
12 oz / 355 ml	1/8 lb N / 56 g N	Apply every 7-14 days.
25 oz / 740 ml	1/4 lb N / 117 g N	Apply every 21-28 days.
50 oz / 1.5 L	1/2 lb N / 235 g N	Apply every 42-56 days.

Trees, Shrubs and Other Ornamentals in Landscapes, Containers and Field Nurseries

Applications	Rate per acre (Ha)/100 gal	Frequency
Soil Drench	64-128 oz 2.5-5 liter per Ha	Thoroughly drench soil at rate of 4-6 gallons total solution per 1,000 sq. ft. Soil tree injection at 32 gal/1,000 sq. ft.
Soil Injection	64-128 oz per 100 gallons 2.5-5 liters per 387 liters	Inject into soil at a rate of 2 gal per DBH in a pattern of 4 ft. increments. Apply 2-4 times per year.

Nursery Injection Systems - NOT Meant for High Peat Moss Media in Low Sunlight Areas

Injector Ratio	PPM Desired	Rate per gallon stock tank to deliver desired PPM
1:100	100 PPM Nitrogen	8 oz per gallon stock tank 236 ml per 3.75 liters