



# 15-8-4 + Micronutrients 40% SRN

## A Slow-Release Fertilizer Solution with Nitrogen, Phosphorus, Potassium, and Chelated Micronutrients for Trees and Shrubs

15-8-4 fertilizer solution provides nitrogen, potassium and sulfur for a wide variety of trees, shrubs and landscape plantings. 15-8-4 was formulated for the deep root feeding of trees and landscape plantings where an N: P: K ratio of 6:1:2 is desired.

18-3-6 nitrogen is from low-biuret urea and the unique slow-release nitrogen, triazone (40% SRN), known for its safety, superior absorption and efficient translocation, slow release and remobilization within the plant.

18-3-6 phosphorus and potassium are derived from Mono Potassium Phosphate), a high quality, soluble source of P and K ideally suited for foliar application. Potassium is also provided by potassium carbonate, a high quality, chloride-free potassium source.

The slow-release triazone nitrogen in 15-8-4 aids in the absorption of potassium needed to enable your turf to reach the desired color and quality demanded by the turf professional.

15-8-4 was developed for the supplemental foliar feeding and or the deep root feeding of all trees and landscape shrub plantings.

15-8-4 may be either sprayed and/or applied through the golf course irrigation system.

### **KEEP OUT OF REACH OF CHILDREN** **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.

**HANDLING AND STORAGE:** Minimize skin exposure. Store mini-bulks and smaller containers, out of the sun, in areas of moderate temperature. Do not re-use containers. Avoid containers, piping or fittings made of copper-containing alloys or galvanized metal. Dispose of containers in accordance with local regulations and requirements.

**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 the back of the throat with finger unless unconscious. Seek immediate medical attention.

**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.

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:** 15-8-4 may be applied as a foliar spray application on to enhance growth and quality, or be deep root injected to correct nutritional deficiencies and help plants rebound from stressful conditions.

15-8-4 may be applied as a concentrate or dilute solution by ground application or through the irrigation system. Apply with sufficient water to achieve adequate plant coverage especially during periods of low humidity and high temperature to achieve the maximum benefit of foliar fertilization.

15-8-4 is physically compatible with most crop protection chemicals. However, Quest recommends testing for compatibility in all spray combinations by a simple jar test with appropriate concentrations. Care should be taken not to blend 15-8-4 with highly acidic materials and materials containing a high level of free ammonia.

**APPLICATION:** Initiate applications in spring when first green-up appears and repeat as needed during the active growing season. Apply in 2-4 gallons of spray solution per 1000ft<sup>2</sup>.

### **TURF APPLICATIONS**

**TURFGRASSES:** Apply 0.25 Lb. to 0.50 lb. of Nitrogen per to 1000ft<sup>2</sup> in 4 to 5 applications at 6 to 8 week intervals.

### **TREES and ORNAMENTALS:**

To Apply - 1/8 lb. Nitrogen per DBH inch mix 91 fl.oz. of 15-8-4 into 100 gallons of water and apply 5 gallons of solution per inch DBH

To Apply - 1/2 lb Nitrogen per DBH inch mix 136 fl.oz. of 15-8-4 into 100 gallons of water and apply 5 gallons per inch DBH

To Apply - 1/6 lb. Nitrogen per inch DBH mix 272 fl.oz. of 15-8-4 into 100 gallons of water and apply 5 gallons per DBH inch

### **MIXING PROCEDURES FOR 15-8-4+ Micro 50% SRN**

1. Add 1/2 of total water to spray tank
2. Start circulating material in tank
3. Add recommended amount of 18-3-6
4. Add compatible micronutrients
5. Add flowable materials
6. Add emulsifiables
7. Add any soluble powders and/or water-soluble fertilizers. All should be pre-dispersed in water before adding to the spray tank solutions.
8. Complete filling of spray tank to desired volume and continue circulating prior to spray application.
9. Flush all spray and nurse equipment after usage.

### **TECHNICAL DATA INFORMATION**

<u>PLANT NUTRIENT CONTENT</u>	<u>% by Wt.</u>
Total Nitrogen (N)	15.0
9.0% Urea Nitrogen	
6.0% Other Water-soluble Nitrogen*	
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> )	3.0
Soluble Potash (K <sub>2</sub> O)	6.0
Copper (Cu)	0.05
0.05% Chelated Copper	
Iron (Fe)	0.10
0.1% Chelated Iron (Fe)	
Manganese (Mn)	0.05
0.05% Chelated Manganese	
Zinc (Zn)	0.05
0.05% Chelated Zinc	

\* 6.0% Slowly Available Nitrogen derived from Urea-triazone solution

<u>TYPICAL DISTRIBUTION OF NITROGEN,</u>	<u>%TOTAL N</u>
Slow-release Nitrogen (SRN)	40
From Triazone Compounds	
Urea N	60

### TYPICAL PROPERTIES

pH	8-9
Appearance	clear, green liquid

**CONDITIONS OF SALE:** This product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with directions under normal use conditions. Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks given herewith. In no case shall the seller be liable for consequential, special or indirect damages such as loss of profits or values resulting from the use or handling of this product.

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