



## GROW WITH THE POWER OF Prudent 44

### Prudent® 44 Gives you the Power to Grow with Earlier Seed Germination & Enhanced Plant Vigor.

Prudent 44 is a patented phosphite fertilizer (15-0-0) formulated with patented urea phosphite. Urea phosphite is a “eutectic”, which allows a high concentration of phosphite in the Prudent® family of specialty fertilizers.

#### How Prudent 44 Works:

- A phosphite fertilizer, Prudent 44 has a 15-0-0 content with 42%  $P_2O_5$  derived from  $PO_3$
- Economical & effective, it can be used at lower rates per acre than most phosphite fertilizers
- Stimulates key pathways in the plant to defend against environmental stress
- Increases the integrity of plant cell walls which improves plant strength and resistance
- Formulated with very little water, which allows the  $PO_3$  to remain stable in the jug
- Contains one of the highest percentages of  $PO_3$  of any phosphite fertilizer
- Compatible with most fertilizers and pesticides
- Helps keep un-chelated metals stable in solution
- Reduces scale buildup in spray tanks and equipment
- Improves spreading & nutrient uptake with a surfactant formulated right into the product

#### Why fertilizing with Prudent 44 phosphite fertilizer gives you the Power

Phosphite is a form of phosphorus, but it has one less oxygen atom than phosphate. Being “lighter” by one oxygen atom than phosphate makes a tremendous difference. Since the fully oxidized phosphate is the most stable P form in the environment, phosphite undergoes a gradual transformation after addition to the soil. Microorganisms are able to assimilate phosphite and release phosphate, gaining energy and nutrients during biological conversion. Due to its greater solubility, it is more readily available to these microbes and plant roots than phosphate. So, phosphite is less chemically stable, and therefore more agile than its staid cousin. It also has certain benefits that phosphate never dreamed of. Phosphite is highly water soluble, and when applied to plants is quickly absorbed by leaves, roots, and branches. Once in plants, it is extremely mobile and it is uniquely able to move in both xylem and phloem. Years of use in Turf & Ornamental have shown that foliar applications of phosphite improve seedling growth and plant vigor.

References: 1. Understanding Phosphonate Products, prepared by Peter Landschoot, Professor and Joshua Cook, Dept. of Crop and Soil Sciences, The Pennsylvania State University. 2. Phosphite Fertilisers: What Are They? Can You Use Them? What Can They Do?, by C.J. Lovatt and R. L. Mikkelsen. Better Crops, vol. 90 (2006, No. 4)

#### Application Instructions

##### Turfgrass

Apply 0.5 - 2.0 oz. per 1,000 ft<sup>2</sup> (0.7 qt. - 2.7 qt. per acre). Use a minimum of 1 gallon of water per 1,000 ft<sup>2</sup>.

Begin applications in the spring and continue on a 7 - 14 day schedule throughout the growing season.

##### Trees and Ornamentals

Prudent 44 can be applied as needed throughout the year.

Applications should be made at rates of 1.0 – 1.5 gallons of Prudent 44 per 100 gallons of spray solution.

Apply 1 gallon of spray solution per diameter inch. Applications should be made every 7 – 21 days.

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# Nutrol® & PRUDENT 44®

The POWER to Stop Fungi Fast

## When used in combination, Nutrol® & Prudent® 44 Pack a Powerful Punch against Fungi

**Prudent 44** is recommended for use with **Nutrol** EPA registered fungicide to expand Nutrol's efficacy against soil borne and foliar diseases.

E.P.A. registered fungicide Nutrol, when used together with Prudent 44 fertilizer, can control Pythium on Turf, and, Phytophthora, Fusarium, Downy Mildew and Powdery Mildew on Ornamentals.

### Nutrol Works 3 Powerful Ways:

- Controls powdery mildew as a non-toxic and powerful EPA registered biopesticide
- Water soluble fertilizer, (0-50-32), Nutrol is a highly-concentrated, yet very gentle
- Tank buffer and water conditioner to prevent alkaline hydrolysis

## GREAT ALONE, BETTER TOGETHER

**Nutrol & Prudent 44 is the Right Combination for  
performance and value!**

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