



15-0-0

## GROW WITH THE POWER OF Prudent 44

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

Prudent 44 is a patented phosphite fertilizer, (15-0-0 NPK). When used as a foliar application, Prudent 44 improves seedling growth and bud formation, encourages blossoming and fruit set, and enhances overall plant vigor.

#### How Prudent 44 Works:

- A phosphite fertilizer, Prudent 44 has a 15-0-0 NPK 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, 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 agricultural and horticultural settings have shown that foliar applications of phosphite improve seedling growth, bud formation, blossoming, fruit set, 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)



#### Agriculture Applications

**CROPS:** Almonds • Walnuts and other Nut Crops Plums, Nectarines and other Stone Fruit • Apples, Pears and other Pome Fruit • Kiwi, Citrus and Avocados • Olives • Grapes • Raspberries, Blackberries and other Caneberries • Hops, etc.

Apply 1 to 4 pints per acre (1 to 5 liters/ hectare) per application.

Apply the first application with first irrigation in the spring with subsequent applications as needed to supplement nutritional requirements.

Do not exceed 1 ounce of product per gallon of solution.

**CROPS:** Tomatoes and Peppers • Lettuce, Spinach & other Leafy Vegetables • Broccoli, Cauliflower & other Brassica Varieties • Melons, Cucumbers & other Cucurbits • Beans and Peas • Strawberries • Potatoes, Onions & other Vegetable Root, Bulb or Tuber Crops

Apply 1 to 4 pints per acre (1 to 5 liters/ hectare) per application.

Apply the first application after transplanting or thinning.

Apply one to two sub-sequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

Do not exceed 1 ounce of product per gallon of solution.

**PERFORMANCE**  
NUTRITION™

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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 such as Phytophthora, Rhizoctonia, Fusarium, Downy Mildew, Powdery Mildew, and more.

E.P.A. registered fungicide Nutrol, when used together with Prudent 44 fertilizer, can control foliar and soil-borne diseases on:

**Stone Fruit, Commodity Crops, Pome Fruits, Root and Tuber Crops, Cucurbits, Vegetables, Tree & Vine Crops and Roses.**

*Please see Nutrol label for full list of crops and diseases along with application instructions.*

## 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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