



JHBiotech
Innovation for a Greener Earth

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PHOSGARD® PLUS

Phosphorous Acid with Polyphosphate Fertilizer



PHOSGARD PLUS 0-32-25

29% P₂O₅ as PO₃ & 3% P₂O₅ as PO₄

Phosphorus is one of the key essential elements in agriculture. Phosphorus has many important functions in plants, the primary one being the storage and transfer of energy through the plant. ADP and ATP are high energy phosphate compounds that control most processes in plants including photosynthesis, respiration, protein and nucleic acid synthesis, and nutrient transport through the plant's cells.



PHOSPHITE FERTILIZATION

The benefits of Phosphite (PO₃) fertilization have been well documented and observed for more than two decades. Phosphite based fertilizers have grown very popular and are now part of many standard nutrition programs. Phosphite fertilizers have several advantages over phosphate base fertilizers. Phosphite is not tied up in the soil as phosphates are. The phosphite ion is able to remain in the soil solution and is easily taken up by both plant roots and foliage. Phosphite are ideal for foliar application because they pass readily through the cuticle of the leaf and are transported through both the phloem and xylem. Phosphite is slowly converted inside the plant and in the soil to phosphate, making **PHOSGARD PLUS** act as a slow release phosphorus source. Phosphite also helps to boost the immune system of plants and can have positive effect on plant vigor and growth. Phosphite also stimulates root development which can lead to healthier, more productive top growth.

PHOSGARD PLUS FILLS THE GAPS WITH POLYPHOSPHATE

Often during times of rapid growth the available phosphorus in the soil is not sufficient to supply the needs of the growing plant. Side dressing phosphate during this time is common, but only has a short term effect on curbing the phosphorus deficiency. Polyphosphate provides an immediately available phosphate source. Applications of Phosgard Plus can quickly supply the necessary amount of phosphorus to the plant in both the readily available phosphate (PO₄) form as well as the time released phosphite form (PO₃).

During Times of rapid growth the available phosphorus in the soil may not be sufficient to supply the need of the growing plant.

Advantages of Phosgard Plus

- Immediately available phosphate
- Slow release phosphorus
- Boosts vigor and growth
- Can help increase root growth
- Absorbed by roots and leaves
- Higher analysis, higher availability equals more phosphorus for your money
- A complete phosphorus source
- Increased micro nutrient availability
- Activates the plant immune system

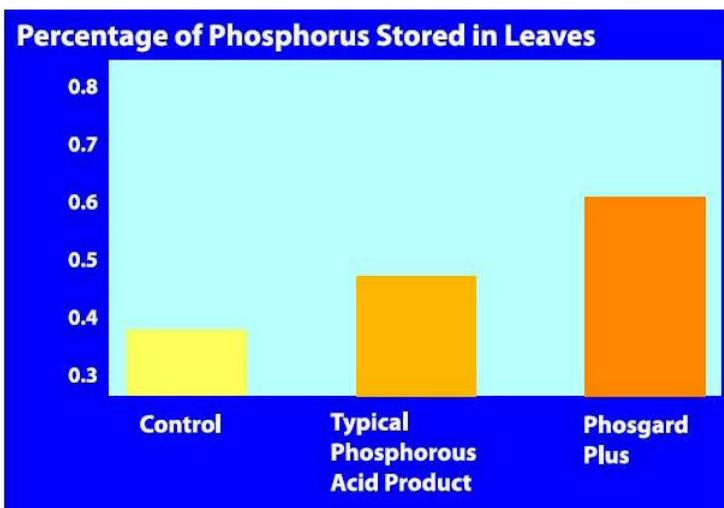
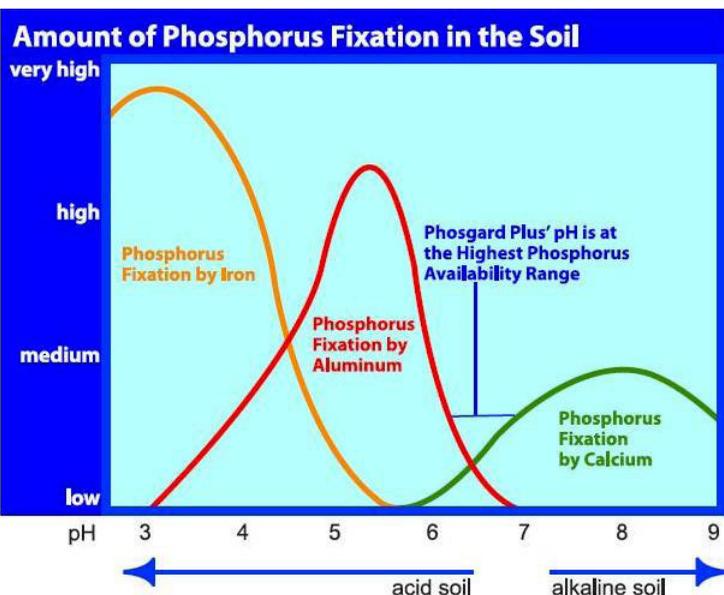
* This flyer is not valid in Oregon.

Soil & Foliar Application

Phosgard Plus is effective through both foliar and soil applications.

Phosgard Plus can be applied to an absorbed by the leaves and translocated to the root system or applied to the soil where it will be absorbed by the root system and translocated to the leaves.

Having both readily available and slow release forms of phosphorus nutrient for your plants nutritional needs.



PHOSGARD PLUS' phosphite move in both directions from roots toward the leaves and from leaves down to the roots. Research has shown application of phosphite can replace phosphate as a source of phosphorus for normal metabolism in crops such as citrus and avocado.

By supplying both immediate and slow release forms of phosphorus, **PHOSGARD PLUS** is an ideal fertilizer for any crop. Additionally, **PHOSGARD PLUS** supplies large amounts of potassium to increase yield and quality of crops, increase root growth and resistance to disease.

PHOSGARD PLUS is a unique fertilizer that utilizes JH Biotech's patented technology. **PHOSGARD PLUS** combines both PO_3 and PO_4 together in one product. No other fertilizer can offer as many benefits as Phosgard Plus. **PHOSGARD PLUS** contains 29% PO_3 and 3% PO_4 . This combination of phosphorus is ideal for fast growing crops like lettuce and spinach. It also helps increase the quality of fruit bearing crops like strawberry, apples and peaches.

Use **PHOSGARD PLUS** in nutrient programs and reap the rewards of a superior phosphorus fertilizer. Phosgard Plus can be applied as a soil drench, a foliar spray and trunk treatment and as a plant or root dip. All of these application methods will provide maximum uptake of phosphorus due to the buffer composition and specific pH of **PHOSGARD PLUS**.



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