



Low Salt Phosphorus Based Liquid Fertilizers

Increased operational efficiency and yield potential continue to top the list of objectives for growers working to improve their bottom line. The J. R. Simplot Company has developed a unique and powerful 6-24-6^{ONE}™ offering to aid in both those efforts.

Agronomic Features

6-24-6^{ONE}™ is a low salt liquid phosphate fertilizer with an ortho/poly formulation, ideally blended for soil application. 6-24-6^{ONE}™ delivers:

- Immediate phosphate availability
- Enhanced root stimulation
- Improved early plant development

Benefits to the Grower

Simplot's 6-24-6^{ONE}™ enables growers to capitalize on more than just enhanced plant yields by increasing everyday operational productivity through:

- In furrow application
- The capability to integrate multiple micro-nutrient packages for a single complete application
- UAN Compatibility
- Safe and sustainable cold weather storage

An Agronomic Bulletin

How is phosphorus utilized for **crop benefits**?

Phosphorus is essential for all plant growth and development, especially in the initial stages of seed development. Phosphorus is taken up and used by the plant in the orthophosphate form, H_2PO_4 . This phosphate ion is critical during seedling development for cell division and new tissue development. Simplot's 6-24-6^{ONE™} is formulated with orthophosphate to provide germinating, young seedlings the phosphorus they need to get a healthy start.



With a high phosphate solution of 6-24-6^{ONE™} what does "low salt" mean?

Fertilizers add salts to the soil and these salts draw moisture away from the seedling and can cause injury. The "Salt Index" is a measure of the ability for a fertilizer to draw moisture out of the soil. The higher the "Salt Index" of a fertilizer the more likely it is to damage the plant. Simplot's 6-24-6^{ONE™} is intentionally formulated with a low salt index to maximize plant safety when used in direct contact with seed placement at labeled rates.



Can micronutrients be used with Simplot 6-24-6^{ONE™}?

Micronutrients are important to plant health and growth. Because such small amounts of these nutrients are needed they are often blended with starter liquid fertilizers to maximize plant uptake. Simplot has created a high quality ortho/poly blend with an increased ability to add micro nutrients. The ortho/poly blend also reduces soil interactions that limit phosphate availability. Simplot 6-24-6^{ONE™} is the product of choice for any of your soil application needs.



How does Simplot's 6-24-6^{ONE™} work in the soil?

Simplot's 6-24-6^{ONE™} is an ortho/poly blend of phosphates which provides both immediate and extended phosphate to the plant. The orthophosphate form is available for immediate plant uptake, giving a germinating seed the boost it needs. This orthophosphate can also be quickly tied up by cations in the soil and therefore unavailable to the plant if not used immediately. The polyphosphate form in Simplot's 6-24-6^{ONE™} is protected from cation tie up. With favorable soil conditions, it is converted to orthophosphate within days to provide longer term availability of phosphate for seedling development.

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Please refer to MSDS for more safety and handling information, available at www.simplot.com or 800-635-9444.
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