

# Fertilizer Fundamentals: Sul-Po-Mag

**W**hen we think of fertilizers, we usually only consider the Big 3 (N-Nitrogen, P-Phosphorus, K-Potassium), but plants require many different nutrients. Plants receive food from air, water, and soil. Sixteen plant nutrients are necessary for optimal growth, development, and food value. Air and water provide oxygen, hydrogen, and carbon. Soil contains macronutrients used in large amounts: nitrogen, phosphorus, potassium, sulfur, calcium, and magnesium.

## Sul-Po-Mag: A Comprehensive Nutrient Source

Sul-Po-Mag is made from a naturally occurring mineral, langbeinite. It contains 22% Sulfur, 22% Potash, and 11% Magnesium, without the salinity of Epsom salt. Sul-Po-Mag breaks down slowly, providing a regular nutrient supply, and is completely water-soluble. It's an excellent addition to container plantings.

## Sulfur

Sulfur is critical to vitamin production, amino acid formation, plant proteins, and enzyme activation. It is a highly mobile nutrient that moves rapidly through soil, especially in sandy layers. Sulfur will lower the pH of alkaline soils.

**Sulfur deficiency symptoms:** Symptoms include small, spindly plants with short, slender stalks, slow growth, light green to yellowish leaves with lighter-colored veins, and leaf spotting. Insufficient sulfur is the #1 cause of gardenia failure.

## Potassium

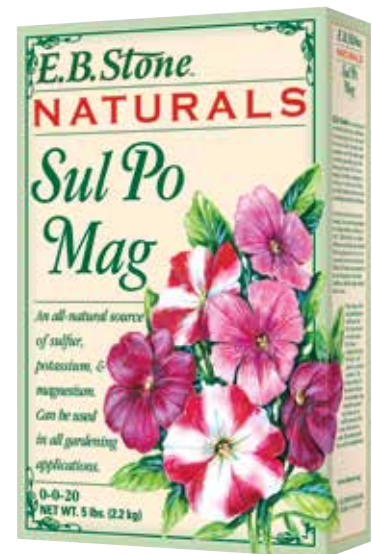
Potassium ensures stronger stems, aids sugar and protein production, and increases plant disease resistance.

**Potassium deficiency symptoms:** Symptoms include squat, bushy growth, bluish-green leaflets, interveinal chlorosis, marginal leaf scorch, and brown leaf undersides

## Magnesium

Magnesium helps strengthen cell walls and improves plants' uptake of nitrogen, phosphorus, and sulfur.

**Magnesium deficiency symptoms:** Symptoms include leaf yellowing between veins, leaf curling, stunted growth, and reduced fruit sweetness.



Epsom salt contains only magnesium and sulfur in sulphate form and is 100% water-soluble. Unused nutrients are washed away by rain or irrigation. Sul-Po-Mag remains water-soluble without altering soil pH, promoting healthier plant growth.

**We'll help you grow the plants you love!**

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