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SAGREX

LIQUID

NATURAL ORGANIC MICRONUTRIENT CHELATES



CHELATED
CALCIUM.....12%



CHELATED
Calcium6%
Nitrate Nitrogen... 4%

CALCIUM is the single most important nutrient in high-production agriculture. In terms of microbe, plant and animal nutrition, it is needed more, by weight and volume, than any other element. On a cellular level, it is calcium that chiefly determines the strength and resistance of cell walls and membranes.



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THE IMPORTANCE OF CALCIUM IN HIGH PRODUCTION AGRICULTURE

Importance in the Soil

Adequate Calcium and the correct Calcium-Magnesium ratio contribute to good soil structure to create water and Oxygen rich, aerobic soils. This environment is necessary for the soil's decomposing agents, the microorganisms, to flourish and convert crop (and animal) residue into mild organic acids, carbonic acids and CO₂ (the gas needed in plant respiration). Some of these acids are further broken down into soil minerals and some are converted into natural mineral chelates. The rest become part of the Humus Complex, which is the factor in increased retention of moisture and applied nutrients in the soil.

Absence of Calcium means poor soil structure, hence poor aeration. This results in an anaerobic decomposition process of crop (and animal) residue that produces alcohol and formaldehyde instead of the mild acids that form the Humus Complex. Alcohol as we know is microbicide (kills microbes) and formaldehyde is a preservative used in embalming. Presence of both these substances in the soil can be very detrimental to crops.

Importance in Plants

Calcium is required by any organism to form and strengthen its cell walls. Adequate calcium in plants ensures vigorous healthy growth, disease resistance and protection from toxins. Insufficient calcium retards cell division thus affecting growing points of the plants such as root tips, shoots and fruit. With sufficient calcium to strengthen cell walls, fruit have longer shelf life and resist a range of breakdown conditions and rots.



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Gardena, California, USA