VERDESIAN
THE NUTRIENT USE EFFICIENCY PEOPLE®

POLYAMINE

A **VERDESIAN** NUE SOLUTION®

REGION
West

CROP
Vegetables, Field, Permanent Crops, Landscaping

TIMING
Broadcast, Foiliar

RATE
See label

PACKAGE
2.5 Gal., 265 Gal. tote

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VLSCI.COM
800-868-6446

Natural amino acid complexed micronutrients for protection and "on-demand" availability of crucial micronutrients.

HOW AND WHY POLYAMINES WORK

BIO-BASED AMINO ACID: Polyamines utilizes the same carrier molecule the plant normally uses to intentionally transport metallic cations

NEUTRAL CHARGE: Neutrally-charged ions for energy efficient leaf and root absorption and plant utilization

HYDROPHILIC ADJUVANT: Enables repeated wetting for optimum polyamine solution uptake

SMALL MOLECULE: Results in optimal uptake and leaf penetration

FOLIAR-APPLIED NUTRIENT PATHWAY

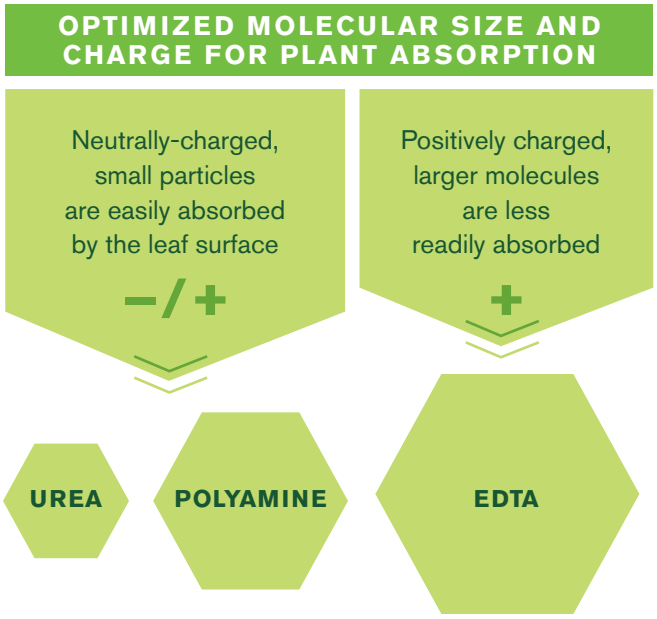
In order for the applied nutrient to be plant available it must be in solution on the plant surface.

Plant entry and assimilation via stomata and other micro-channels is enhanced due to the neutral charge of the polyamine complexed micronutrients.

Early-season application further enables immature "sink" leaves to develop into mature "sources" of readily available and required micronutrients.

OPTIMIZE ACCESSIBILITY, ASSIMILATION AND UTILIZATION WITH FOLIAR APPLICATION

- Foliar application is most effective for nutrients with low mobility in phloem (Fe, Mn, Zn and Cu)
- Nutrients with high mobility in plants are easily translocated with foliar application
- Soil pH can restrict nutrient availability with soil application
  - pH < 6.0 Phosphate and Boron can be leached
  - pH > 7.5 Zn, Cu, Mn, Fe become fixed in the soil



FORMULATION	Crucial Plant Process Influenced by Micronutrients	Ca CALCIUM	B BORON	Cu COPPER	Fe IRON	Mg MAGNESIUM	Mn MANGANESE	Zn ZINC	pH	lbs/ Gal
Polyamine Calcium	Cell wall structure strength	5.00%							2.08	9.70
Polyamine Boron	Bloom set, pollination, bud set, fruit set		5.00%						8.10	9.57
Polyamine Copper	Reduce fruit drop key in photosynthetic enzymes			2.00%					2.70	9.19
Polyamine Iron	Chlorophyll synthesis and multiple enzyme functions				5.50%				2.40	10.08
Polyamine Magnesium	Central molecule in chlorophyll, phosphate metabolism					2.00%			3.10	9.48
Polyamine Manganese	Photosynthesis, respiration, Nitrogen assimilation, pollen germination						5.60%		2.82	10.09
Polyamine Zinc	New blooms, shoots, leaves. Synthesis of auxins and enzymes for protein synthesis							5.80%	8.10	9.57
Polyamine Micro-Pak	Broad combination of micronutrients to correct deficiencies			0.30%	0.30%	0.50%	1.00%	1.20%	2.74	9.68
Polyamine MultiMineral	Photosynthesis and growth enhancement with added Sulfur				0.20%	2.50%	1.20%	1.20%	1.7	10.51
Polyamine Tree Nut Mix	Combination of micronutrients to address unique needs of nut trees		0.29%	1.45%		1.60%		2.15%	2.00	10.53

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Organic formulations available for all formulations except Tree Nut Mix.

APPLICATION RATES			
	MILD DEFICIENCY	MODERATE DEFICIENCY	SEVERE DEFICIENCY
WATER / IRRIGATION	10-16 oz/acre	16-24 oz/acre	24-42 oz/acre
FOLIAR	6-12 oz/acre	12-24 oz/acre	24-38 oz/acre

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