



CROP

Vegetables, field crops,
permanent crops,
and landscaping

TIMING

Broadcast and foliar

RATE

See label

PACKAGE

2.5 gal, 265 gal tote

CERTIFIED FOR ORGANIC USE



Organic only
formulations available
for Calcium, Copper,
Iron, Magnesium,
Manganese,
Zinc, and Micro-Pak.

Data on file. Results may vary based
on local environmental conditions.
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VLSCI.COM
919-825-1901

Polyamine is a natural amino acid-complexed micronutrient solution designed to ensure the on-demand availability of crucial nutrients.

With a focus on plant absorption efficiency and stress mitigation, the **Polyamine** product line addresses nutrient deficiencies while supporting robust crop growth.

FEATURES AND BENEFITS

BIO-BASED AMINO ACID TECHNOLOGY

- Uses the plant's natural carrier molecules to enhance the transport of metallic cations
- Optimized molecular size and neutral charge which ensures efficient leaf and root absorption

ENHANCED FOLIAR UPTAKE

- Small, neutrally charged molecules penetrate leaf surfaces for superior assimilation
- Formulated with hydropolic adjuvant. properties to ensure repeated wetting and uptake during foliar applications

SOIL AND pH COMPATIBILITY

Effective even in challenging pH conditions where nutrient availability is limited:

- pH < 6.0: Phosphate and boron can be leached
- pH > 7.5: Zn, Cu, Mn, Fe become fixed in the soil

SUPPORTS GROWTH AND DEVELOPMENT

- Promotes early-season development, enabling new leaves to become nutrient-rich sources for the plant
- Enhances photosynthesis, nutrient assimilation, and overall plant metabolism

ORGANIC OPTIONS AVAILABLE: OMRI-certified formulations meet the needs of organic farming systems (excluding Polyamine Boron, Polyamine MultiMineral, and Polyamine BMZ).

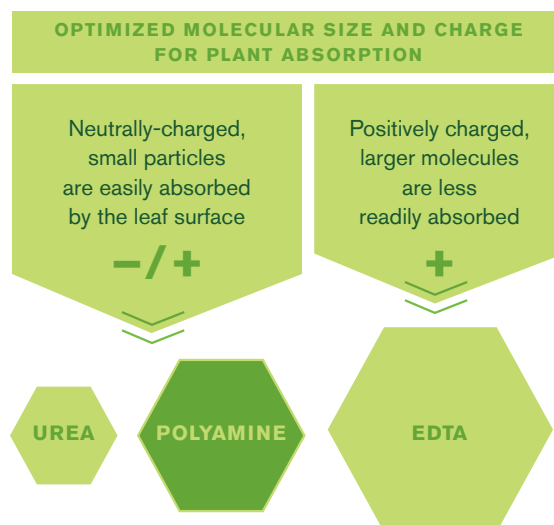
APPLICATION

FOLIAR APPLICATION

- Ideal for nutrients with low phloem mobility (Fe, Mn, Zn, Cu)
- Enhances translocation of mobile nutrients within the plant

SOIL APPLICATION VIA IRRIGATION

- Combats nutrient fixation in high-pH soils and ensures root-zone availability



FORMULATIONS

Crucial
Plant Process
Influenced by
Micronutrients



CALCIUM



BORON



COPPER



IRON



MANGANESE



MAGNESIUM



ZINC



lb/Gal

Polyamine Calcium*	Cell wall structure strength	5.00%							2.08	9.73
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%				2.46	10.28
Polyamine Magnesium*	Central molecule in chlorophyll, phosphate metabolism					2.00%			2.69	9.67
Polyamine Manganese*	Photosynthesis, respiration, nitrogen assimilation, pollen germination						5.60%		2.44	10.16
Polyamine Zinc*	New blooms, shoots, leaves, synthesis of auxins and enzymes for protein synthesis							5.80%	2.00	10.28
Polyamine BMZ	Provides plants with critical, yet often deficient micronutrients via the leaves		0.90%			2.35%			2.35%	10.24
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%	1.70	10.51



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APPLICATION RATES

	MILD DEFICIENCY	MODERATE DEFICIENCY	SEVERE DEFICIENCY
WATER / IRRIGATION	10-16 oz/A	16-24 oz/A	24-42 oz/A
FOLIAR	6-12 oz/A	12-24 oz/A	24-32 oz/A