Rates and Timing - Grapes

All the Benefits of Nutrients Maximized

Nutrients enhance plant growth and stress tolerance - if they're absorbed into the plant and transported where they can do their job. Better uptake yields better results. QMIN technology delivers proven results.

- Carbohydrates protect the micronutrients
- Micronutrients translocate to where they are needed
- Plants utilize carbohydrate energy to help them thrive

Key Advantages of QMIN Technology:

Effective. Across a wide variety of crops, QMIN technology has shown consistent nutrient uptake.

Translocates. Because plants naturally store polysaccharides for energy, they readily absorb QMIN's polysaccharide protected nutrients then move them to new growth areas.

Compatible. In fertilizers and pesticides, QMIN's unique chemistry and polysaccharide protection are effective in diverse applications.

Safe. Plant derived polysaccharide complexation helps to eliminate phytotoxicity.

Suggested Rates & Timing

When	Product	Rate
Leaf Out	QMIN Zinc	2 qt/acre
Fruit Bloom	QMIN Calcium QMIN Boron	2 qt/acre 1 qt/acre
Veraison	Carbo-Boost 2-15-15	2 gal/acre
Post Harvest*	QMIN Zinc QMIN Boron	2 qt/acre 1 qt/acre

Zinc is critical to auxin production and is a co-factor in many important plant enzymes.

Calcium is an important component of the cell wall and will have positive effects on fruit set and fruit quality.

Boron is critical to pollen tube elongation, and will have ameliorate fruit-set deficiency symptoms.

Potassium enhances carbohydrate production, transport, and storage. Potassium is also key to the plant's water stress management.

Phosphate is important in plant metabolic processes and carbohydrate production.

*In 2005, Dr. Peter Christensen, UC Davis, found that fall applied boron was more effective at reducing fruit-set deficiency symptoms in grape than a bloom spray.

Christensen, L., Beede, R., & Peacock, W. (2006). Fall foliar sprays prevent boron-deficiency symptoms in grapes. California Agriculture, 60(2), 100-103.

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Contact Information.

For more information, contact your Nutrien Ag Solutions Representative.

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qualitechco.com | 318 Lake Hazeltine Drive | Chaska, MN 55318-1093 | o. 952.448.5151 | f. 952.448.3603