

# Quantum TRIO

## LIQUID EDTA CHELATED MICRONUTRIENT

### GUARANTEED ANALYSIS:

Total Nitrogen (N) .....	7.5%
Sulfur (S) .....	1.95%
Copper (Cu) .....	1.5%
1.5% Chelated Copper (Cu)	
Manganese (Mn).....	2.25%
2.25% Chelated Manganese (Mn)	
Zinc (Zn) .....	2.25%
2.25% Chelated Zinc (Zn)	

**Derived from:** zinc EDTA, copper sulphate, manganese sulphate, ethanolamine, EDTA (ethylenediamine tetraacetic acid).

#### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Amino acids (lysine), succinic acid..... 1.5 %



**NET CONTENTS:**  
2.5 gallons (9.46 liters)



**NET WEIGHT:**  
27.8 lbs / 12.6 kgs



**DENSITY/ WEIGHT PER GALLON:**  
11.2 Lbs (5.08 kg) at 68°F (20° C)



**DO NOT STORE BELOW**  
40°F (5°C)

### Quantum TRIO Advantages

Complex of EDTA chelated micronutrients (Zinc, Manganese, Copper) for the prevention and/or correction of zinc deficiency in all crops when used as a part of a balanced fertility program. Fully compatible in a tank mix due to the Extra-Chelate technology.

The fully chelation shields and protects the nutrients, which prevents them from reacting and binding with other elements in the soil and other fertilizers. This protection helps ensure that nutrients remain available to the plant in a wide range of tank mixes, as well as pH and soil conditions.

- ◆ 100% chelated form of trace elements for maximum stability and effectiveness.
- ◆ Excellent compatibility in tank mix compatible with liquid starters (orthophosphates) and other highly concentrated fertilizers, biostimulants and plant protection products.
- ◆ More efficient than other forms of nutrients; up to 6x more availability vs non chelated nutrients.
- ◆ Bioactive components of RX Technology regulate a wide range of cellular processes, stimulate the natural mechanisms of plant resistance to abiotic stresses (drought, heat and salt) and pathogens.
- ◆ Manganese is critical to photosynthesis, nitrogen metabolism and carbohydrate utilization. It also strengthens the plant's immune system and natural defenses, aids in herbicide metabolism.
- ◆ Zinc plays a role in the growth and development of the plant's tissue, roots and vascular system. It is also critical to protein synthesis and structural integrity.
- ◆ Copper aids in cell wall formation, protein synthesis, pollination and tube formation, as well carbohydrate and nitrogen metabolism, also involved in the formation of lignin in plant cell walls.
- ◆ Sulfur and Nitrogen involved in the synthesis of proteins and enzymes.



Advanced technologies require complex tank mixes for preparing a foliar feeding solution, seed treatment, IN-FURROW™ application or fertigation. **Extra chelate Technology** protects trace elements from interaction with other fertilizers, biostimulants and plant protection agents in tank mixes or soil in a wide pH range.

**RX Technology** is the innovative technology to Improve plant stress tolerance. Resistance eXtreme Technology is based on the action of a number of organic compounds with high biostimulation activity and anti-stress action.

## RATE RECOMMENDATIONS

**Soil applications:** Quantum TRIO is recommended for use on all types of soils. Quantum TRIO can be applied alone or in combination with dry or liquid fertilizer for band, in-furrow, side-dress or broadcast 1 pt. to 8 qts. per acre pre-plant, at planting or within 2 weeks after emergence, or when deficiency symptoms first appear. Detailed recommendations for the In-furrow application are below.

**Aerial application:** Apply 0.5 to 1 pt. of Quantum TRIO per acre in at least 10 gal. of water.

**Seed treatment application:** Apply 1 to 4 fl. oz. per cwt of seed.

**Foliar Application:** Quantum TRIO may be applied as a foliar application to crops at rates ranging from 1 to 3 pints per acre.

CROPS	IN-FURROW APPLICATION RATES	FOLIAR APPLICATION RATES
<b>FIELD CROPS</b>		
<b>Corn</b>	1–3 pt/acre in starter fertilizer. Rate will depend on extent of deficiency and soil conditions.	1–2.5 pt/acre between V4 and V8, 2nd application between V10-VT. Can be used in conjunction with herbicide.
<b>Soybeans, beans</b>	1-2 pt/acre in starter fertilizer. Rate will depend on extent of deficiency and soil conditions.	Apply 1 to 2 pt/acre between V3 to R1 at 2 to 3 week intervals as needed. Then when soybeans are in the earlier reproductive stage (R1 to R3).
<b>Sugar beet</b>		Apply 1 to 2 pt/acre during leaf development.
<b>Cereal grains</b>		Apply 1 to 2 pt/acre during leaf development.
<b>Other field crops</b>		Apply 1-2 pt/acre in sufficient water for thorough coverage. Every 2-3 weeks, starting 2 weeks during growth.

CROPS	FOLIAR APPLICATION RATES
<b>Fruit, tree &amp; vine crops</b>	Apply at 1–3 pt/acre starting at bud break or when deficiency symptoms appear. Repeat the application in about 4 weeks if necessary.
<b>Vegetable crops</b>	Apply at 1–2 pt/acre about 2-4 weeks after emergence, or when deficiency symptoms appear in sufficient spray volume for thorough coverage. Repeat the application in 1-3 weeks if necessary.

Quantum TRIO is compatible with herbicides, insecticides and most agricultural chemicals that may be utilized in combination with liquid fertilizer. However, if the desired combination has not been previously used, a compatibility test is recommended (jar test).

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