



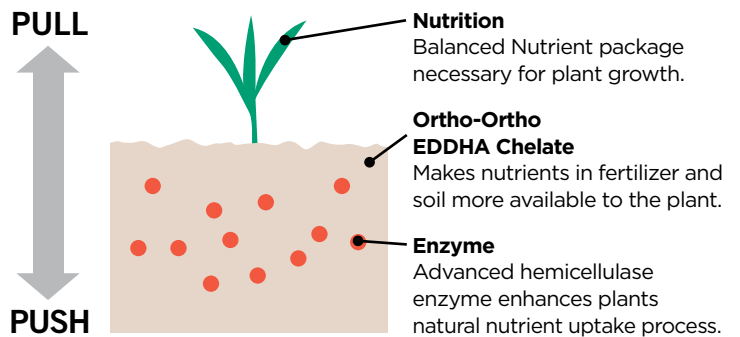
# LUMEN™

## Nutrient Shuttle Effect

CHS Lumen is the most advanced starter fertilizer that contains key plant nutrients, patent pending Ortho-Ortho EDDHA chelate, and an advanced enzyme that enhances the plants natural nutrient uptake process. CHS Lumen is formulated for use with cropping systems that have shown benefits with the addition of a nitrogen or phosphorus starter fertilizer application or have exhibited deficiencies in zinc or iron. When used with sound agronomic practices, CHS Lumen has been shown to enhance plant growth, increase root development and correct nutrient deficiencies to maximize yield potential.

## Push Pull Nutrition

This combination creates a Push <-> Pull nutrition package by providing nutrition to the plant, making the nutrients more available, and enhancing the plants ability to take up nutrients.



### Principal Functioning Agents

Total Nitrogen (N) . . . . .	5.00%
3.00% Ammoniacal Nitrogen	
2.00% Urea Nitrogen	

Available Phosphate (P2O5) . . . . .	15.00%
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Soluble Potash (K2O) . . . . .	3.00%
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Iron (Fe) . . . . .	0.10%
0.10% Chelated Iron (Fe)	

Zinc (Zn) . . . . .	0.80%
0.80% Chelated Zinc (Zn)	

Derived from urea, anhydrous ammonia, monoammonium phosphate, Diammonium phosphate, monopotassium phosphate, dipotassium phosphate, Iron EDDHA, and zinc EDTA.

Enzyme  
Hemicellulase . . . . . 2,000 uU/mL  
Based on activity on Locust Bean as a substrate.

### Application Directions

- **Soil**  
Apply 1-5 gal/A as a starter fertilizer or as a soil applied broadcast application in a balanced fertility program. Water may be added to increase application rate. *Corn and Sugarbeet:* The most common use rate is 3 gal/A. Apply 2-3 gal/A as an in-furrow pop-up fertilizer or 3-5 gal in a 2x2" band at planting alone or in combination with other liquid

fertilizers as prescribed by state recommendations. Apply 3-5 gal as a broadcast application. *Potato:* Apply 3-5 gal/A as a starter or broadcast fertilizer program often tankmixed with other phosphate fertilizers.

- **Postemergence**  
Apply 1-3 gal/A to an actively growing crop to prevent the occurrence of a nutrient deficiency or as remediation to an existing nutrient deficiency. Postemergence applications should be made in a minimum of 10 gal/A of water.

**Package Size**  
2x2.5 gal case, Bulk, Tote

**Always read and follow label directions.**