



LUMEN™

Grade 5-15-3

GUARANTEED ANALYSIS

Total Nitrogen (N)	5.00%
3.00% Ammoniacal Nitrogen	
2.00% Urea Nitrogen	
Available Phosphate (P₂O₅)	15.00%
Soluble Potash (K₂O)	3.00%
Zinc (Zn)	0.80%
0.80% Chelated Zinc (Zn)	

Derived from Urea, Anhydrous ammonia, Monoammonium phosphate, Diammonium phosphate, Monopotassium phosphate, Dipotassium phosphate, Zinc EDDHA and Zinc EDTA.

CONTAINS NON-PLANT FOOD INGREDIENT(S):

Soil Amending Ingredient

Enzyme

Hemicellulase	0.0011%	0.002 U/mL
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*based on activity on Locust Bean as a substrate

Total Other Ingredients	99.9989%
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CAUTION: KEEP OUT OF THE REACH OF CHILDREN, PETS AND LIVESTOCK

Refer To Material Safety Data Sheet (MSDS) For Important, Environmental, Safety, and Health Information

CAUTION: This material should only be used as recommended. It may prove harmful when misused.

- Avoid contact with eyes
- Avoid contact with skin
- Avoid breathing fumes or spray mist
- Do not swallow
- Wash thoroughly after handling

First Aid: In the event of eye and/or skin contact – flush affected areas with large quantities of plain water. If irritation persists seek medical attention.

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Personal Protective equipment: Wear gloves and protective clothing. Wear eye protection (glasses, goggles or face shield).

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

GENERAL INFORMATION

CHS Lumen is formulated for use with cropping systems that have shown benefit to a nitrogen or phosphorus starter fertilizer application or have exhibited deficiencies to zinc. CHS Lumen contains nutrients that are necessary to enhance plant growth, increase early season root development, and correct nutrient deficiencies in order to maximize yield potential. CHS Lumen provides the same chelating technology that can be found in Soygreen®. CHS Lumen may be used as a soil or foliar application to any food or fiber crop where the addition of one or more of the nutrients contained in CHS Lumen would be beneficial.

DIRECTIONS FOR USE

Use CHS Lumen in conjunction with sound agronomic management practices including a balanced fertility program. Applications made to soil as a starter fertilizer in furrow with the seed at planting time provide ideal placement and timing for crucial nutrients provided by CHS Lumen to maximize product effectiveness and nutrient use efficiency. Refer to the requirements of your state for specific crop recommendations.

APPLICATION INSTRUCTIONS

GENERAL GUIDELINES: Several variables are known to influence the proper rate of application to prevent or resolve a specific nutrient deficiency. Refer to the requirements of your state for specific crop recommendations.

SOIL APPLICATIONS: Apply 1 to 5 gallons CHS Lumen per acre 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: Apply 2 to 3 gallons CHS Lumen per acre as an in-furrow pop-up fertilizer or 3 to 5 gallons in a 2 by 2 inch band at planting alone or in combination with other liquid fertilizers as prescribed by state recommendations. Apply 3 to 5 gallons as a broadcast application.

Potato: Apply 3 to 5 gallons CHS Lumen per acre as a starter or broadcast fertilizer program.

For use in Wisconsin: The Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin - publication A2809 indicates that Corn and Potato will respond to the combination of nutrients found in CHS Lumen when applied near the seed at planting. For all crops in Wisconsin, all nutrients in starter fertilizers are to be counted against the amounts of nutrients recommended based on the crop to be grown and soil test results.

POSTEMERGENCE APPLICATIONS: Apply 1 to 3 gallons per acre 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 gallons per acre of water.

PRECAUTIONARY STATEMENTS

CAUTION: CHS Lumen is considered to be a low health hazard and a non-inhalation hazard. Always follow good industrial hygiene practices. Harmful if swallowed. If conscious, immediately give large quantities of water and induce vomiting. Seek medical attention immediately. Avoid contact with skin. In the event of skin contact, flush immediately and thoroughly flush with water. Causes eye irritation. Flush eyes immediately and thoroughly with water for 15 minutes. If irritation persists, seek medical attention.

STORAGE: CHS Lumen freezes at 10° F. CHS Lumen should be stored in polyethylene or stainless steel tanks with polyethylene or stainless steel fittings.

DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) after mixing and loading product. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler, visit the ACRC web page at www.acrecycling.org. Decontaminated containers and materials must be disposed of in a manner allowed by local, state, and federal laws and regulations.

ENVIRONMENTAL HAZARD: In the case of a spill, contain spill and maximize recovery.

CONDITIONS OF SALE AND WARRANTY LIMITATION: The Directions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of CHS Inc. or the seller. All such risks shall be assumed by the buyer. CHS Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit writing signed by a duly authorized representative of CHS Inc. CHS Inc. and the seller offer this product, and the Buyer and the User accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in or any other express or implied warranty. In no case shall CHS Inc. or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. CHS Inc. and the seller offer this product, and the Buyer and the User accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CHS Inc.

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NET CONTENTS: 250 Gallons
NET WEIGHT: 2,580 lbs
10.32 lbs/gal at 68° F