

Brandt® Ligno 7% Mn

Liquid Complexed Micronutrient

Guaranteed Analysis

Sulfur (S)	4.0%
Manganese (Mn)	7.0%

Derived from manganese sulfate, complexed with lignosulfonate.

General Information

BRANDT LIGNO 7% Mn is recommended to prevent and correct manganese deficiencies of field, row, vegetable, fruit, tree, and vine crops. Applied alone, with pesticides, or with other fertilizers, this product may be applied directly to the soil or to the foliage of growing crops via ground sprayers, aircraft or fertigation systems.

Rate Recommendations

FOLIAR APPLICATION: Actively growing plants with young leaves absorb foliarly applied BRANDT LIGNO 7% Mn most efficiently. Immediate post-irrigation or post-rainfall application will enhance foliar uptake. Thorough coverage and wetting are needed for optimum foliar spray results.

Applications should be separated by a minimum of 7-14 days. AVOID foliar applications of this product when plants are under moisture stress. AVOID foliar applications to deciduous tree crops during bloom.

Dilute Applications: For rates higher than 2 quarts per acre, split applications of 2 quarts or less are preferred to minimize phytotoxicity.

Concentrate Applications: Use up to 1 quart in a minimum of 25 gallons of water per acre.

Aerial Applications: Up to 1 quart per 5 gallons of spray may be used, but more dilute solutions will improve coverage and results.

SOIL APPLICATION: The lower rates are for field, row and vegetable crops. The higher rates are for fruit, tree, and vine crops.

Soil Fertility Maintenance	1-3 qts./acre
Mild Deficiency	2-6 qts./acre
Severe Deficiency	1-3 gals./acre

Fertigation: Apply the recommended amount of product in split applications 1-2 weeks apart throughout the growing season.

Net Contents: 5 gallons (18.9 liters)

Density: 10.5 lb/gal @ 68°F
Net Weight: 52.0 lb (23.5 kg)

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Optimum rate of application will vary depending on soil properties (such as pH, organic matter content, texture), weather conditions, time of year, general crop health and crop species. For best results, follow soil or plant tissue test recommendation to monitor specific levels of micronutrients and maintain these levels for optimum plant growth.

Mixing and Handling Instructions

Shake, stir, or swirl contents before using. Put 1/3 to 2/3 of total required water volume in tank. Add recommended amount of this product before adding pesticides, adjuvants, or other fertilizers. Agitate until thoroughly mixed, then fill tank with remainder of water.

BRANDT LIGNO 7% Mn is compatible with most pesticides and fertilizers. However, if the desired combination has not been previously used, check for chemical mixture compatibility using a jar test prior to application.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.htm>
Information about the components of this lot of fertilizer may be obtained by writing to Brandt Consolidated, Inc. and giving the lot number which is found on the container or label.



DANGER: Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements: Wear eye/face protection. Do not breathe the mist or vapor. Avoid release to the environment. **First Aid:** *If in eyes:* Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. **Storage and Disposal:** Do not contaminate water, food or feed by storage or disposal. Keep out of reach of children. Store away from incompatible materials. Dispose of contents/container in accordance with local regulations.

Warranty: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use; but neither this warranty nor any other warranty of merchantability or fitness of a particular product expressed or implied, extends to the use of this product contrary to label conditions, or under conditions not reasonably foreseeable to the seller; and buyer assumes the risk of any such use.

Guaranteed By:
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