

# NUTRAPLEX<sup>®</sup>

## MANGANESE

**WITH SULFUR**  
**To Prevent and Correct**  
**Micronutrient Deficiencies**

### GUARANTEED ANALYSIS

Sulfur (S).....4.00%  
Manganese (Mn).....5.00%

Derived from: Manganese Sulfate complexed with lignosulfonate; Sulfuric acid.

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

**KEEP OUT OF REACH OF CHILDREN**

**WARRANTY:** Western Nutrients Corporation makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material, except those which are contained on the Western Nutrients Corporation Label attached to the product container.

**Nutraplex is a Registered Trademark of Western Nutrients Corporation**

**NET CONTENTS 5 GALLONS (18.93 LITERS)**  
**10.4 LBS. PER GAL @ 68 ° F**  
**1163 GRAMS PER LITER @ 20 ° C**



### PRODUCT INFORMATION

#### CROPS

NUTRAPLEX<sup>®</sup> MANGANESE can be applied to most vegetable crops, row crops, deciduous fruit and nut trees, citrus, avocados, grapes, melons, ornamentals, turf, pasture, range grasses, and most other crops.

NUTRAPLEX<sup>®</sup> MANGANESE is a complexed liquid micronutrient for foliar and soil application to agricultural crops. NUTRAPLEX<sup>®</sup> MANGANESE is beneficial in combination with plant food and non-phytotoxic when used as directed. It is absorbed through the leafy tissue and root system of the plant and quickly translocated within the plant. NUTRAPLEX<sup>®</sup> MANGANESE is compatible with most insecticides, fungicides, herbicides, liquid fertilizer, and other foliar micronutrients. It is used on most field and row crops, trees, vines, turf, and ornamentals. NUTRAPLEX<sup>®</sup> MANGANESE can also be used as an acidifying and dispersing agent in water solutions.

NUTRAPLEX<sup>®</sup> micronutrients have corrected deficiencies of a great many row crops, vegetables, and ornamental plants under soil conditions ranging from high organic matter (muck) to very low organic matter and from strong acid soils (pH 3) to high alkaline soil (pH 8.5) containing considerable calcium carbonate (free lime). NUTRAPLEX<sup>®</sup> can be effective under most varied farming conditions. Differences in soil conditions, climate and plant varieties will determine how much more effective NUTRAPLEX<sup>®</sup> micronutrients are than other sources of micronutrients.

NUTRAPLEX<sup>®</sup> micronutrients are unique in that they can be used in most forms of liquid fertilizers including ammonia solutions. NUTRAPLEX<sup>®</sup> micronutrients can be broadcast on the surface of the soil in water solutions, in fluid fertilizers including suspensions, or in particulate form. This micronutrient can be banded at planting time, side dressed, or sprayed in water solutions directly on deficient plants. Under irrigation, NUTRAPLEX<sup>®</sup> micronutrients can be added to the water of gravity and sprinkler systems. Under dry land conditions, NUTRAPLEX<sup>®</sup> micronutrients can be applied ahead of disking, plowing or listing. When applied to soil, NUTRAPLEX<sup>®</sup> micronutrients can be used in combination with a nitrogen fertilizer source.

#### APPLICATION RATES

##### SOIL APPLICATION RATES

MAINTENANCE APPLICATIONS	1 qt/acre (1 liter)
MODERATE DEFICIENCY	½ - 1 gallon/acre (2 - 4 liters)
HEAVY DEFICIENCY	1 - 2 gallons/acre (4 - 8 liters)

In soil applications the usual carrier is water used at a rate sufficient for thorough coverage. NUTRAPLEX<sup>®</sup> MANGANESE can be applied with liquid fertilizers as a broadcast or banded treatment. Use NUTRAPLEX<sup>®</sup> at a maximum rate of 1 part NUTRAPLEX<sup>®</sup> to 50 parts fertilizer in ammonium phosphate solutions and 1 part NUTRAPLEX<sup>®</sup> to 10 parts fertilizer in nitrogen solutions.

##### FOLIAR APPLICATION RATES

TREE CROPS	½ - 1 gallon/acre (2 - 4 liters)
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Apply NUTRAPLEX<sup>®</sup> MANGANESE on tree crops using the following dilution rates:

Aerial applications: Use a maximum of 1 quart (1 liter) of NUTRAPLEX<sup>®</sup> MANGANESE per 5 gallons (20 liters) of water.

Dilute spray: Use a maximum of 1 gallon (4 liters) of NUTRAPLEX<sup>®</sup> MANGANESE per 200 - 500 gallons (800 - 2000 liters) of spray solution.

Concentrated spray: Use a maximum of 1 gallon (4 liters) of NUTRAPLEX<sup>®</sup> MANGANESE per 50 - 150 gallons (200 - 600 liters) of concentrated spray solution.

If trees are sprayed several times a year the above application rates can be split according to the number of yearly applications. Split applications are considered more beneficial than single applications.

VEGETABLE CROPS	1 - 2 pts/acre (1/4 - ½ liters)
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Use a minimum of 10 gallons (40 liters) of water per acre.

FIELD CROPS	1 - 4 pts/acre (1/4 - 1 liter)
GRAPES	1 to 4 quarts per acre

First application at the 4 to 6 leaf stage, repeat every 7 to 10 days as needed. Use enough dilution for full coverage. Apply NUTRAPLEX<sup>®</sup> MANGANESE on field crops using the following dilution rates:

Aircraft and low volume sprayers: Use a minimum of 10 gallons (40 liters) of water per acre.

Conventional sprayers: Use a minimum of 20 gallons (80 liters) of water per acre.

##### ACIDIFYING

NUTRAPLEX<sup>®</sup> MANGANESE has an acidifying effect on high pH water.

**MANUFACTURED BY - WESTERN NUTRIENTS CORPORATION**

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