

# Manni-Plex<sup>®</sup> Ultra Turf

## Manni-Plex Based Turf Micronutrient Blend

### Product Data Bulletin

## Features

- Smallest molecule delivering nutrients to turf
- Contains surfactants and humectants for better contact and adhesion
- Delivers nutrients directly to phloem and xylem
- Growth Forming Locations (GFLs) fed more effectively

MANNI-PLEX ULTRA TURF provides high content Magnesium, Boron, Copper, Iron, Manganese and Molybdenum to fine turfgrass more efficiently than other nutrient systems.

Manni-Plex, the micronutrient delivery system, is a unique sugar alcohol formulation that provides smaller molecules for improved foliar delivery to stomatal openings and transcuticular pores. Smaller is definitely better. While other supposed foliar products have to be broken down inside the plant, wasting time and plant energy, the unique chemistry of Manni-Plex products are taken up directly by the Phloem, the main artery of the plant that delivers nutrients to the GFLs (Growth Forming Locations).

## General Recommendations

### Greens and Tees

2-4 fl. oz. per 1000 sq. ft.

### Fairways and Sports Turf

2.5 - 5.5 quarts per acre.

### Overseeding

2 fl. oz. per 1000 sq. ft. after germination.

### Sod Installation

2 fl. oz. per 1000 sq. ft. at installation.

### Mixing Instructions

Put 1/3 to 2/3 of total desired water volume in tank. Add adjuvant(s) if desired and agitate until thoroughly mixed. Add pesticide(s) if desired and agitate until thoroughly mixed. Add desired amount of MANNI-PLEX ULTRA TURF and agitate until thoroughly mixed. Fill tank with remainder of desired water. A jar test is a good field practice for evaluating compatibility of multiple chemical mixtures.

**Caution:** Check compatibility with chemical mixtures and high phosphate and alkaline (high pH) solutions.



### Guaranteed Analysis 4-0-2

Total Nitrogen (N) .....	4.0%
2.5% Nitrate Nitrogen	
1.5% Urea Nitrogen	
Potassium as Potash (K <sub>2</sub> O) .....	2.0%
2.0% Soluble Potash	
Magnesium (Mg) .....	0.50%
0.50% Water Soluble Magnesium	
Boron (B) .....	0.25%
0.25% Water Soluble Boron	
Copper (Cu) .....	0.50%
0.50% Water Soluble Copper	
Iron (Fe) .....	2.0%
2.0% Water Soluble Iron	
Manganese (Mn) .....	0.50%
0.50% Water Soluble Manganese	
Molybdenum (Mo) .....	0.25%
0.25% Water Soluble Molybdenum	

Derived from Urea Ammonium Nitrate, Potassium Nitrate, Copper Nitrate, Iron Nitrate, Magnesium Nitrate, Manganese Nitrate, Sodium Molybdate and Sodium Borate.

*Use a minimum of 1 gallon water per 1,000 square feet with ground spray equipment. For best results apply as a foliar spray early in the morning or late evening. MANNI-PLEX ULTRA TURF can be applied via fertigation systems. Do not apply phosphate based fertilizers or high alkaline fertilizer solutions such as potassium carbonate during the same irrigation cycle. The use of an adjuvant may be desired to improve the properties of spray solution. Performing trials with adjuvants may be useful in determining the best inclusion rates for optimal performance. Optimum rate of application will vary depending on your soil properties such as soil pH, organic matter content and soil texture, weather conditions, time of year and general turf health and species. For best results, follow soil test or plant analysis recommendation.*

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