



MADE WITH **SeaXtra**[®]
SEAWEED EXTRACT

Manganese Plus[™] 0-0-0

with 5% Manganese (Mn)

A BIOPRO MICRONUTRIENT

Benefits of Use:

- Rapid response from foliar uptake
- Increased nutrient uptake
- Improved color
- Reduces severity of take-all patch in young bentgrass

Problems Addressed:

- Manganese deficiency in alkaline or highly leached sandy soils
- Manganese deficiency symptoms including chlorosis
- Take-all patch in newly established bentgrass

Manganese Plus is a formulation of chelated manganese and iron to improve micronutrient availability and enhance uptake. Manganese is involved in the synthesis of chlorophyll, in oxidation-reduction reactions, and as a cofactor in various enzyme systems. The function of manganese is closely related to iron in plants. Manganese Plus is designed for foliar application to correct and prevent manganese deficiencies in turfgrasses and ornamental plants. It may also be used to reduce the severity of take-all patch in bentgrass.



2.5 Gal. Jug (9.46 L)
Net Wt. 26.2 lbs. (11.9 kg)
Model No. 57201



30 Gal. Drum (113.6 L)
Net Wt. 314.1 lbs. (142.5 kg)
Model No. 57202



275 Gal. Tote (1,041 L)
Net Wt. 2,879.3 lbs. (1,306.0 kg)
Model No. 57203

BIOPRO[®]
TECHNOLOGIES

Manganese Plus™

0-0-0
with 5% Manganese (Mn)

F002182

APPLICATION INSTRUCTIONS:

Manganese Plus can be applied through fertigation, soil drench, conventional or foliar spray. It can be applied alone or tank mixed with other products. Shake well before using.

TURF:

Apply 3 oz. of Manganese Plus diluted in 1 gallon of water per 1,000 sq. ft. (1 gallon in 40 gallons of water per acre) every two weeks or as needed. To maximize performance, the rates may be split into weekly applications.

EVERGREENS, DECIDUOUS SHRUBS, TREES AND PALMS:

Foliar Application: Mix 1 to 2 gallons of Manganese Plus in 100 gallons of water and spray foliage to the point of runoff. Best results will occur when applied to actively growing foliage during periods of high humidity and low plant stress (early mornings, late afternoons and cloudy days are preferable to hot, dry conditions).

Soil Drench: Mix 4 to 5 gallons of Manganese Plus in 100 gallons of water and drench around the base of each plant within the dripline. Approximately 1 to 2 gallons of finished solution will be adequate for most ornamentals.

TAKE-ALL PATCH SUPPRESSION:

University studies show that an application of 2 lbs. of Mn per acre in the spring or fall will suppress take-all patch by as much as 70%. To achieve this rate apply 12 oz. of Manganese Plus in 2 gallons of water per 1,000 sq. ft. (4 gallons of Manganese Plus in 80 gallons of water per acre). Water into the root zone following the application.

COMPATIBILITY:

Perform a standard "jar test" to check compatibility with other products before mixing.



WARNING

CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY IRRITATION.

PRECAUTIONARY STATEMENTS: Keep out of reach of children. Read label before use. If medical advice is needed, have product container or label at hand. Avoid breathing mist or spray. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Recommended PPE: Wear protective gloves, protective clothing, eye protection, face protection, and other personal protective equipment as required.

FIRST AID: IF SWALLOWED: Call a poison center and/or doctor if you feel unwell. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and able to do so. Continue rinsing eyes. Seek medical attention if eye irritation persists. **IF ON SKIN:** Rinse skin with water or shower.

STORAGE & DISPOSAL: Store between 40°-120°F. Avoid direct heat or fire. Decomposition may occur at high temperatures. Avoid freezing. Dispose of contents/container in accordance with local/regional/national and international regulations.

Refer to product SDS for additional safety instructions.

DO NOT APPLY NEAR WATER, STORM DRAINS, OR DRAINAGE DITCHES. DO NOT APPLY IF HEAVY RAIN IS EXPECTED. APPLY THIS PRODUCT ONLY TO YOUR LAWN/GARDEN, AND SWEEP ANY PRODUCT THAT LANDS ON THE DRIVEWAY, SIDEWALK, OR STREET, BACK ONTO YOUR LAWN/GARDEN

Guaranteed Analysis:

Combined Sulfur (S)	3.20%
3.20% Combined Sulfur	
Iron (Fe)	0.50%
0.50% Chelated Iron	
Manganese (Mn).....	5.00%
5.00% Chelated Manganese	

Derived From:

Ferrous Sulfate*, Manganese Sulfate*
*Chelated with Citric Acid

ALSO CONTAINS NONPLANT FOOD INGREDIENTS:

1.38% Seaweed Extract
(Ascopyllum nodosum) (microbe food)

Physical Characteristics:

10.47 lbs./gal. @ 68°F

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

Information about the components of this lot of fertilizer may be obtained by writing to BioPro Technologies, LLC, 4060 SE 45th Court, Ocala, FL 34480

4060 SE 45th Court • Ocala, FL 34480 • 352-390-6502

www.BioProTechnologies.com

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