

SOIL

# Defense-Man

Defensive Nutrition Supplement

25% (Mn) Manganese

**BENEFITS:**

**STRESS RESISTANCE THROUGH LIGNIN FORMATION**

**COLOR ENHANCEMENT**

**ENZYMATIC FUNCTIONS**

*Defense-Man* provides superior root absorption of manganese.

**Defense-Man** is a concentrated 25% manganese organic acid chelate for soil application. The organic chelation ensures rapid plant availability and encourages microbial proliferation in the soil. **Defense-Man** contains 0.5% magnesium. Manganese, which is typically low in golf course soils, is critical to stress tolerance. Research at Rutgers University concluded that plant-available, root-absorbed manganese reduced Take-All Patch damage to turf by about 70%. **Defense-Man** also contains organic acids to enhance solubility and beneficial microorganism activity.

**NUTRIENT ANALYSIS**

**Magnesium (Mg)**..... 0.50%  
**Manganese (Mn)**..... 25.00%  
 Derived from magnesium sulfate, manganese sulfate and citric acid.

**Manganese**  
**Mn**  
**At. Wt. 54.94**

4 x 1.6 lb (0.7kg) jugs; 32 lb (14.5 kg) pail

**PROFESSIONAL USE GUIDELINES ②**

**APPLICATION:**

Open container that is partially filled with soluble concentrated powder. Top off container with water, leaving enough head space to agitate (warm water is better). Replace cap and shake vigorously. Add to agitating spray tank. Apply with any type equipment that delivers an even spray pattern to the target area. Water in immediately after application.

**RATE OF APPLICATION:**

Extreme soil deficiencies should be corrected over a period of time with several applications. Frequent soil testing is recommended to ascertain soil manganese levels and to maintain manganese at desired levels. For actively growing turf, apply 3.2 lb [2 containers] / acre (2.8 kg [4 containers] / ha) every 4-6 weeks as needed. Do not apply to turf under heavy stress.

**COMPATIBILITY:**

**Defense-Man** is tank mix compatible with many systemic fungicides, insecticides, and nutrient solutions. Jar test when in doubt. **Defense-Man** will tend to dramatically lower the pH of the spray solution. For best mixing results, remove tank strainer prior to product addition.

DISTRIBUTED BY

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