

SOIL



DEFENSE-MAN

DEFENSIVE NUTRITION SUPPLEMENT

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** also contains 0.5% magnesium.

Defense-Man will provide superior root absorption of manganese, which is essential for:

- **Stress Resistance through Lignin Formation**
- **Color Enhancement**
- **Enzymatic Functions**

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 utilizes a unique packaging format targeting ease of handling, longer shelf life, and reduced shipping costs.



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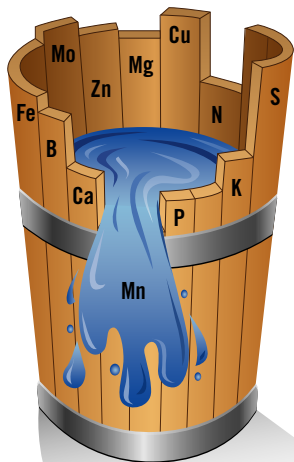
stress defense

TECHNICAL INFORMATION

LIEBIG'S LAW

Law of the Minimum

Plant growth is constrained by the essential element that is most limited.



NUTRIENT CONTENT

Magnesium (Mg) 0.50%

Manganese (Mn) 25.00%

Derived from magnesium sulfate, manganese sulfate, citric acid, and polycarboxylic amino saccharides.

Also contains organic acids to enhance solubility and beneficial microorganism activity.

Net Weight: 1.6 lb (0.7 kg) / jug
32 lb (14.5 kg) pail

PROFESSIONAL USE GUIDELINES

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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.



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