

# **CEREAL GRAINS - FOLIAR APPLICATION**

## General Information

### GENERAL INFORMATION

TILL-IT 5% MANGANESE EDTA FULLY CHELATED SOLUTION is highly effective under adverse soil conditions unlike inorganic manganese compounds which are tied-up and unavailable to plants. These adverse soil conditions include: high pH (alkaline), high salinity, clay absorption, high plant magnesium, calcium, or iron, poorly drained soils, low organic matter, and low soil temperatures. TILL-IT EDTA products are water soluble and move well in the soil solution. TILL-IT EDTA products may be applied separately or in combination with fertilizers or pesticides.

TILL-IT 5% MANGANESE EDTA FULLY CHELATED SOLUTION is designed primarily for foliar applications to prevent or correct manganese deficiencies in a wide range of agronomic and ornamental plants. Its use is suggested as a supplement to a regular, balanced fertilizer program to enhance yields and improve quality.

Application of TILL-IT 5% MANGANESE EDTA FULLY CHELATED SOLUTION is a means of obtaining a quick response to needed elements. Foliar applications of TILL-IT 5% MANGANESE EDTA FULLY CHELATED SOLUTION may be particularly beneficial during periods of peak nutrient demand, for crops grown on soils having poor nutrient availability or to crops suffering from a weakened root system.

TILL-IT 5% MANGANESE EDTA FULLY CHELATED SOLUTION should be used as part of a comprehensive Total Nutrition System® for optimizing plant growth, development, yield and quality.

### Function of Manganese in the Plant

Manganese assists the plant with nitrogen metabolism, involved in breakdown of carbohydrates, essential for the assimilation of carbon dioxide in photosynthesis, and functions in the formation of riboflavin, ascorbic acid, and carotene in plants.

Typical annual requirements of manganese by the plant is 0.5 to 1.1 pounds per acre depending upon crop and yield. The highest use period of manganese by plants is in the first 40 days of development.

## Limitations, Restrictions, and Exceptions

Cereal Grains: Foliar: Apply up to 1 quart per acre with sufficient water for thorough coverage with the first pesticide spray program. Repeat applications as required.

Soil: Please consult general recommendations.

Soil: Apply with pesticide, fertilizer, or irrigation water (drip, overhead, or emitter) at 1 to 6 quarts per acre. EDTA 5% Manganese Chelate may be applied preplant (as near as possible to planting) during planting (close to seed) or post-emergence as a broadcast, layby, shanked, or banded application.

### Method

[Band application](#)

[Foliar spray](#)

[Band application](#)

[Foliar spray](#)

### Rates

[field\\_rates 0](#)

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### Timings

[At-Plant](#)

[Postemergence \(Crop\)](#)