

APPLES AND PEARS - PRE-BLOOM APPLICATIONS

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

Apples and Pears: Pre-Bloom Application: Apply up to 1 quart per 100 gallons of water by ground application or up to 1½ quarts per acre by air with oil dormant/delayed dormant or up to green tip with existing spray program. For post-bloom cover spray, postharvest recommendations and soil application, please consult general recommendations.

POST BLOOM COVER SPRAY APPLICATION: Ground: Apply 5% MANGANESE EDTA Chelate up to 1 quart per 100 gallons of water with existing spray program. Air: Apply 1 quart per acre with sufficient water for thorough coverage. Repeat applications as required by air or ground with existing spray program. Caution: Combined application rates of EDTA Chelates may not exceed 1½ quarts per 100 gallons of water by ground and 1 quart per acre with sufficient water for thorough coverage by air.

POST-HARVEST AND BEFORE LEAF DROP: Ground: Apply up to 2 quarts of TILLIT 5% Manganese EDTA Chelate per 100 gallons of water up to 6 quarts per acre.

POST-HARVEST AND BEFORE LEAF DROP: Air: Apply up to 1 gallon per acre with sufficient water for thorough coverage. Correction may not be evident until next growing season. Caution: Combined application rates of EDTA Chelates may not exceed 1½ gallons per acre with sufficient water for thorough coverage by air or ground application.

SOIL APPLICATION: Foliar applications of EDTA products for deciduous and evergreen trees are preferred over soil applications. Apply 1 to 3 gallons per acre with pesticides, fertilizer, or irrigation water (emitters, drip, or overhead) during active growing season. Correction may not be evident for several weeks.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

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Timings

[Post-bloom](#)

[Post-harvest](#)

[Pre-bloom](#)