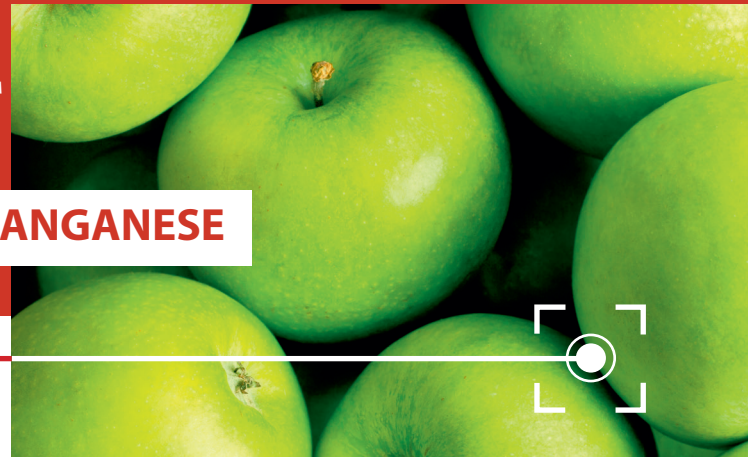


# MANGANESE PHLOEM™



## ORGANICALLY COMPLEXED LIQUID MANGANESE

### DESCRIPTION

MANGANESE PHLOEM™ contains organically complexed manganese (Mn), formulated for enhanced uptake.

### KEY BENEFITS

- Single element application to correct manganese deficiencies
- Improved crop growth and development
- Increases photosynthesis and chloroplast development
- Aids in protein synthesis and hormone signalling
- Organically complexed for better uptake
- Can be used for foliar or fertigation application
- Suitable for use on a wide variety of crops
- It is suitable for use in combination with other nutrients

### CONTAINS

( N% - P% - K% - S% )  
( 0 - 0 - 0 - 0 )

**Mn** - 16.6 % W/V



### POSITIONING AND FUNCTIONS

MANGANESE PHLOEM™ is a single element product, formulated with organic acids to improve the uptake. This product can be used on a wide variety of crops to manage deficiencies and supply manganese during plant growth periods with higher requirements.

Manganese is an essential micronutrient that plays a key role in numerous physiological processes, particularly photosynthesis. Manganese is a vital cofactor for the oxygen-evolving complex (OEC) of the photosynthetic mechanisms, catalyzing water-splitting reaction.

MANGANESE PHLOEM™ supplies manganese for the synthesis of carbohydrates, such as sugars and metabolic processes such as glycosylation, ROS scavenging and nitrate-reducing enzyme activity. It also participates in the structure of photosynthetic proteins and enzymes.

Manganese is required as a cofactor by many hormones, including abscisic acid (ABA) and auxin. Additionally, manganese is also necessary for pollen germination and pollen tube development, and it can be applied before flowering.

Addition of selected complexing agents to MANGANESE PHLOEM™ ensure effective leaf uptake, phloem loading and unloading as well as assimilation into plant tissue. This ensure that manganese is effectively transported from source to sink tissue, while facilitating the final assimilation into plant tissue.

### REGION

NEW ZEALAND

### TYPE

Liquid







### APPLICATION

- Foliar
- Fertigation

### PACKAGING

20 l, 200 l, 1000 l

### CROPS

-  Broadacre crops
-  Fruit trees and vines
-  Kiwis
-  Pastures
-  Tree nuts
-  Vegetables

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