



INNOVATIVE and AUSTRALIAN

MANNI-PLEX MANGANESE

Superior supplement for the prevention and correction of MANGANESE deficiencies.



Manganese is essential for Phosphorus and Magnesium uptake and aids in the utilization of Nitrogen

MANNI-PLEX MANGANESE FEATURES

- Rapidly absorbed.
- Contains penetrant and translocation aids.
- Helps recovery from heat stress or water logging.
- Smallest molecule delivering nutrients to plants.
- Contains surfactants and humectants for better contact and adhesion.
- Delivers nutrients directly to the phloem and xylem.

MANNI-PLEX COMPLEX

Manni-Plex Manganese is based on the world patented Manni-Plex technology. Essential plant micro-nutrients are complexed in an organic sugar alcohol to create a highly efficient foliar trace element fertilizer. The small molecular size and delivery package containing humectants, spreading and penetrant agents further ensures that the complexed nutrients are both phloem and xylem mobile.

MANGANESE MOBILITY IN PLANTS

The spreading and adhesion characteristics combined with the small molecular size of **Manni-Plex Manganese** ensures rapid and effective uptake of manganese. The **Manni-Plex Manganese** complex allows manganese to travel through the phloem and xylem uninhibited to essential growth forming locations. The plant recognises the sugar alcohol complex so that further work to break the complex down into a recognisable form is unnecessary.

MANGANESE DEFICIENCY

- Symptoms are expressed in the lower leaves, due to the nutrient being mobile within the plant.
- Plants with manganese deficiency will have a general loss in green colour occurring initially in older leaves and chlorosis occurs between the veins due to chlorophyll breakdown.
- Manganese, like calcium can be deficient in soils with high pH and coarse texture.
- Manganese, like zinc struggles to be taken up via the roots.
- Manganese applications are more highly responsive from foliar applications.

PACK SIZE

Available in 20, 200 & 1000 Litres

MANNI-PLEX MANGANESE



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ANALYSIS

6% (w/v) Manganese as Manni-Plex sugar alcohol complex.
 2.8% (w/v) Nitrogen as Nitrate.
 5.6% (w/v) Nitrogen as Urea.

APPLICATION

For use in a regular nutrient program for all crops requiring Manganese. Use a minimum of 100 litres of water per hectare with ground spray equipment, 30 litres for aerial applications. Optimum rate of application will vary between fields. Multiple applications may be needed throughout the season. The application rate may need to be varied with changes in plant size, canopy or crop load.

MIXING INSTRUCTIONS

1. Put 1/3 of water in tank.
2. Add correct amount of **Manni-Plex Manganese**.
3. Continue to fill tank with water and agitate.
4. Add other chemicals, check compatibility with standard jar test.
5. Manni-Plex products are not compatible with phosphate based fertilisers.
6. Agitate adequately to mix.

SUGGESTED FOLIAR APPLICATION RATES (Litres per Hectare)

Almonds	2-4	Lucerne	3-5
Apples	3-4	Macadamias	3-4
Avocados	2-4	Melons	2-3
Bananas	2-4	Olives	2-4
Beans	2-4	Onions	2-5
Blueberries	2-3	Peanuts	3-5
Brassica	2-4	Pears	3-4
Capsicum	2-3	Potatoes	3-5
Carrots	2-3	Pumpkins	2-3
Celery	2-3	Soybean	2-3
Cereals	3-5	Stone Fruit	3-4
Citrus	3-5	Strawberries	2-3
Cotton	3-5	Tomatoes	2-3
Cucumbers	2-3	Tropical Fruit	2-4
Grape Vines	2-4	Vegetables	2-3
Lettuce	2-3	Zucchini	2-3

MANNI-PLEX RANGE and ANALYSIS

Manni-Plex Boron	3.8 % B	As plant available nutrient.
Manni-Plex Calcium	14.7% Ca	As plant available nutrient.
Manni-Plex Cal Mag	7.3% Ca & 3.6% Mg	As plant available nutrient.
Manni-Plex Iron	6% Fe	As plant available nutrient.
Manni-Plex Magnesium	5 % Mg	As plant available nutrient.
Manni-Plex Manganese	6 % Mn	As plant available nutrient.
Manni-Plex Moly	6.2% Mo	As plant available nutrient.
Manni-Plex Potassium	22% K	As plant available nutrient.
Manni-Plex Zinc	8.8 % Zn	As plant available nutrient.

Manni-Plex products are compatible with each other.

CONTACT DETAILS

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