



INNOVATIVE and AUSTRALIAN

Key-EI Manganese

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Quality soil supplement for the prevention and correction of Manganese deficiencies.



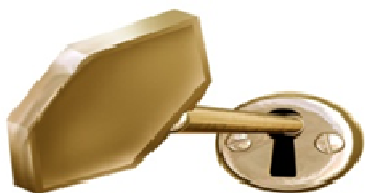
Manganese deficiencies expressed in the lower leaves, due to the nutrient being mobile within the plant.

Manganese

Manganese is an essential micronutrient in most cropping regions of Australia. Manganese plays an important role in early shoot development. Manganese is known to increase physical plant strength and decreases premature crop drop.

Key-EI Manganese chelate

Key-EI Manganese is an essential plant micro-nutrient that is chelated in a Ethylene Diamine Tetraacetic Acid (**EDTA**), to create a highly efficient soil trace element fertiliser. The chelate delivery package further ensures that the nutrient is plant available via the root system.



Manganese Deficiencies

Deficiencies will show a light interveinal chlorosis developed under a limited supply of Mn. The early stages of the chlorosis induced by manganese deficiency are somewhat similar to iron deficiency. They begin with a light chlorosis of the young leaves and netted veins of the mature leaves especially when they are viewed through transmitted light. As the stress increases, the leaves take on a gray metallic sheen and develop dark freckled and necrotic areas along the veins. A purplish luster may also develop on the upper surface of the leaves. Grains such as oats, wheat, and barley are extremely susceptible to manganese deficiency. They develop a light chlorosis along with gray specks which elongate and eventually the entire leaf withers and dies.

Key-EI Manganese

- Enhanced root uptake and translocation.
- Increased plant availability.
- Reduces leaching.
- Decreases soil tie ups.

Foliar Application

Refer to Manni-Plex Manganese

Pack Size

Available in 2kg & 15kg packs.



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“Another quality product from Barmac Pty Ltd”

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ANALYSIS

13 % Manganese as EDTA Chelate.

APPLICATION

For use in a regular nutrient program for all crops requiring Manganese via fertigation, water wheel or soil injection. 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. Dissolve contents before using.
2. Put 1/3 of water in the fertigation tank.
3. Add correct amount of **Key-EI Manganese**.
4. Continue to fill tank with water and agitate.
5. Conduct jug test if requiring multiple nutrient mixing.

APPLICATION RATES

Minor Deficiency

Apply 1.0 Kg to 1.5 Kg of **Key-EI Manganese** per application per hectare throughout the cropping season as needed. Multiple applications may be needed to correct deficiencies once they occur.

Major Deficiency

Apply 2.5 Kg to 3.5 Kg of **Key-EI Manganese** per application per hectare throughout the cropping season as needed. Multiple applications may be needed to correct deficiencies once they occur.

Key-EI Range & Analysis

Key-EI BTE

0.9% Boron (B) as Borate
1.7% Copper (Cu) as EDTA Chelate
3.3% Iron (Fe) as EDTA Chelate
7.8% Magnesium (Mg) as Sulphate
1.7% Manganese (Mn) as EDTA Chelate
0.8% Zinc (Zn) as EDTA Chelate
0.023% Molybdenum (Mo) as Molybdate
10.4% Sulphur (S) as Sulphate

Key-EI Calcium

10% Calcium (Ca) as EDTA Calcium

Key-EI Copper

14% Copper (Cu) as EDTA Chelate

Key-EI Iron

13% Iron (Fe) as EDTA Chelate

Key-EI Magnesium

6% Magnesium (Mg) as EDTA Chelate

Key-EI Manganese

13% Manganese (Mn) as EDTA Chelate

Key-EI Zinc

14% Zinc (Zn) as EDTA Chelate

Barmac Nutrition Product Range

“AUTOFERT”	Liquid nutrition for plant & soil health.
“Key-EI”	Soluble EDTA chelates.
“Ligno-Plex”	Fertigation Lignosulphonate liquids.
“Manni-Plex”	Foliar applied micronutrient technology.
“CoRoN”	Controlled Release foliar nitrogen.
“Sure-Flow”	NPK with trace element soluble blends.

For more information on Key-EI Manganese contact -



Barmac Pty Ltd

3 Mary St, Blackstone Qld 4304
Phone 07 3280 3000
Fax 07 3280 3030
www.barmac.com.au
ABN 21 009 674 953



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