



YaraVita™ Mancozin

A formulated manganese/copper/zinc treatment for agricultural and horticultural use

Guaranteed Analysis:

manganese (Mn)	33.0 w/v	330 g/L
copper (Cu)	11.0% w/v	110 g/L
zinc (Zn)	8.4% w/v	84 g/L
nitrogen (N)	6% w/w	60 g/L

Benefits:

- Formulated for safe application at critical growth stages to satisfy crop requirements
- Widely tank mixable with other crop sprays. Visit www.tankmix.com/yara for details
- Proven, reliable performance. Trialled and tested on a wide range of crops around the world
- High quality, consistent product. Manufactured to ISO 9001 quality assurance standards
- Easy to use liquid formulation. Pours and disperses easily and quickly into the spray tank

Key Nutrients:

- **Manganese** - Is involved in the function of many enzymes; e.g. detoxification and water splitting enzymes which provide the oxygen to form carbohydrates. Mn deficiency reduces chlorophyll content and lignin synthesis, a decrease in lignin may be why manganese deficient plants have lower resistance to root pathogens e.g. Take-all in cereals.
- **Copper** - Is essential for photosynthesis, various enzyme function and flower and seed formation. It is also key for lignin synthesis, which gives physical strength to shoots and stems and vascular tissues required for water movement in the plant.
- **Zinc** - Is essential for root development and at crop emergence due to its role in auxin (growth hormone) synthesis, auxins control the growth of plants by affecting cell and stem elongation. Zn also plays a specific role in flower fertilization and an inadequate supply during seed set could result in a reduction in seeds formed and smaller than normal fruit or grain.
- **Nitrogen** - Protein N is the largest fraction of N in the plant; N plays a key role in nucleic acid formation, amino acid and protein synthesis. N also has a key role in chlorophyll and ATP synthesis.



Product Recommendations

Typical Crop Recommendations*

- **Beans:** 1 L/ha at the 4 to 6 leaf stage. Water rate: 200 L/ha.
- **Carrot:** 1 L/ha when the crop is 15 cm tall. For moderate to severe deficiency repeat at 10 to 14 day intervals. Water rate: 200 L/ha.
- **Cereals:** 0.5-1 L/ha from 2 leaf stage to first node detectable (Zadoks G.S. 12 to 31). Water rate: 200 L/ha. For severe deficiency, increase to 2 L/ha or repeat the above dose 10 to 14 days later.
- **Citrus:** 1-2 L/ha during spring and autumn flushes. Water rate: 500-2000 L/ha.
- **Cotton:** 1 L/ha 3 to 4 weeks after emergence. Repeat 10 to 14 days later if necessary. Water rate: 50-150 L/ha.
- **Grapevines:** 1.5 L/ha applied at 10 to 14 day intervals pre- and post- flowering. Avoid applications during flowering. Water rate: 200-1000 L/ha.
- **Lucerne:** 3.5 L/ha at dormancy break. Repeat after every cut when re-growth has occurred, as necessary. Water rate: 30-200 L/ha.
- **Maize:** 1 L/ha at the 4 to 8 leaf stage. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 30-200 L/ha.
- **Melon (Field Grown):** 1 l/ha applied at the 4 to 6 leaf stage. In cases of moderate or severe deficiency repeat the application after a 10 to 14 day interval. Water rate: 500 l/ha.
- **Onion:** 3.5 L/ha when there is sufficient leaf area to obtain coverage (4 to 6 leaf). Repeat during bulking if necessary. Water rate: 30-200 L/ha.
- **Peas:** 1 L/ha at the 4 to 6 leaf stage. Water rate: 200 L/ha.
- **Potatoes:** 1 L/ha at one week after 100% emergence and following petiole analysis during tuber bulking. For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 30-250 L/ha.
- **Rice:** 0.5 to 1 L/ha at the start of tillering. Water rate: 30-200 L/ha.
- **Sorghum:** 1 L/ha at the 4 to 8 leaf stage. Repeat if necessary at 10 to 14 day intervals. Water rate: 30-200 L/ha.
- **Tomato (Field Grown):** 1 to 2 L/ha at the 4 to 6 leaf stage. Repeat when required at 10 to 14 day intervals. Water rate: 30-1500 L/ha.
- **Turf:** 1 L/ha as soon as growth commences in spring and /or following identification of need by analysis. Repeat sprays at 10 to 14 day intervals as necessary. Water rate: 200 L/ha.

**The information provided is accurate to the best of Yara's knowledge and belief. Any recommendations are meant as a guide and must be adapted to suit local conditions. Always read the label before use.*



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