



YaraVita™

Mangcop™

Formulated manganese and copper treatment for agricultural and horticultural use

Guaranteed Analysis:

manganese (Mn)	37.5% w/v	375 g/L
copper (Cu)	12.5% w/v	125 g/L
nitrogen (N)	6.9% w/v	69 g/L

Why Foliar Apply?

Foliar sprays ensure precise application of the right nutrient mix at the right time, and can be specifically targeted to the leaf or fruit, to suit an immediate crop need.

Foliar application also provides nutrients for immediate uptake by the leaves or fruits. As a result, the grower is not reliant on the right soil, pH or growing media conditions and can quickly put the crop back on course.

Manganese requirements:

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 requirements:

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.

Nitrogen Requirements:

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.



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
- High nutrient content means lower application rates reducing handling time and waste packaging



Product Recommendations

Typical Crop Recommendations*

- **Acacia:** 2-3 L/ha applied during spring or autumn flush. Water rate: 20 L/ha minimum.
- **Canola:** 1 L/ha at the 4 to 8 leaf stage. Water rate: 200 L/ha.
- **Cereals:** 1 L/ha from 2 leaf stage to first node detectable (Zadok's G.S. 12-31). Water rate: 50 L/ha. For severe deficiency, repeat after 10 to 14 days.
- **Clover:** 1 L/ha at onset of flowering. Water rate: 50 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.
- **Eucalyptus:** 2 to 3 l/ha applied during spring or autumn flush. Water rate: 20 L/ha minimum.
- **Lucerne:** 1 L/ha at flower bud formation and at 5% to 10% flowering. Water rate: 50 L/ha.
- **Maize:** 0.5 to 1 L/ha at the 4 to 8 leaf stage. Repeat again 10 to 14 days later for severe deficiency. Water rate: 75-200 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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