

QMIN Manganese 5.5%

QMIN Manganese 5.5% is designed for foliar and soil application to crops for the prevention and correction of Iron deficiencies, that may limit growth and yield.

BENEFITS OF QMIN MANGANESE

- **QMIN Manganese** is 100% soluble and nontoxic to foliage when it is applied as per label directions.
- **QMIN Manganese** utilizes a proprietary manufacturing technology whereby a blend of polysaccharides is reacted with specific ionized nutrients, resulting in complexed compounds which help improve nutrient uptake and translocation within the plant.
- **Unique Polysaccharide Technology** protects micronutrients until they are used by plant or microbes.
- **QMIN** is compatible with an extensive range of fertilisers & crop protection products, as well as in low pH formulations.

THE ROLE OF MANGANESE (Mn) IN PLANTS

- **Physiological function:** Manganese plays a key role in physiological processes, most notably of which is photosynthesis. Mn facilitates the photolysis of water molecules and provides energy for photosynthesis. Other functions include: Chloroplast Formation, Nitrogen Metabolism, Photosynthetic Efficiency, Stress Tolerance, Protection from Free Radicals.
- **Enzymatic action:** Manganese is reported to activate over 35 different enzymes in plants, some of which catalyze different steps of lignification and phytoalexin biosynthesis.

Manganese (Mn) is an essential micronutrient that promotes crop health and production. Plants take up the micronutrient in its Mn^{2+} form. Manganese in sufficient amounts enhances photosynthetic efficiency, dry matter production, and disease resistance, resulting in improved crop yields. However, manganese deficiency is a widespread problem for crops.

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GUARANTEED ANALYSIS

Manganese (Mn)5.5%
5.5% Water soluble Manganese (Mn). Derived from: Manganese Polysaccharide.

APPLICATION

DECIDUOUS TREE CROPS: Including Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 1.1 – 4.6 L/ha.** Spray at early bud, post petal fall.

EVERGREEN TREE CROPS: Such as Avocado, Citrus, Macadamia. **Foliar: 1.0 – 4.6 L/ha** **Fertigation: 2 – 18 L/ha.** Apply to recently hardened spring flush or during active growing period & post-harvest.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins. **Foliar: 0.5 – 4.6 L/ha.** **Fertigation: 1 – 18 L/ha.** Apply at regular intervals from 5th leaf until 14 days pre harvest. Fertigate regularly to replenish nutrients.

LEAFY VEGETABLES: Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 0.5 – 1 L/ha.** **Fertigation: 1 – 18 L/ha.** Apply at 3 -4th leaf stage.

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 0.5 – 4.5 L/ha.** **Fertigation: 1 – 18 L/ha.** Foliar spray, early season or when leaf area is sufficient to intercept spray. Apply with compatible crop protection sprays.

VINE & BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 0.5 – 4.6 L/ha.** **Fertigation: 1 – 18 L/ha** First foliar application shoots 10 cm long. Second application less than 5% flowering. Colour Development

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 0.5 – 4.6 L/ha.** **Fertigation: 0.8 - 18 L/ha** Water injection or down the tube. Best applied at 3 – 4 true leaf, may be used at other growth stages. For maintenance, use the higher rate.

****Please consult your crop adviser for orchard specific recommendations**