

COMPLETE ZMC

NPKS 2-0-0-0 + 50% Zinc, 19% Manganese & 5.8% Copper



High analysis Zinc, Manganese & Copper suspension designed to promote a healthy uniform & vigorous plant growth and mitigate deficiencies.

BENEFITS OF COMPLETE ZMC

- Highly micronised, controlled released, low salt index zinc, manganese and copper.
- Accelerated early vegetative growth.
- Promotion of root systems to access nutrients from soils.
- Controlled particle morphology to delivering sustained uptake over 4 – 6 weeks.
- Healthy, uniform and vigorous plant growth to mitigate deficiencies.
- Can be applied as seed treatment, soil and foliar sprays

THE IMPORTANCE OF ZINC, MANGANESE AND COPPER

Zinc forms part of an enzyme which produces carbon dioxide, and maintains its level for photosynthesis. Zinc is also essential for auxin (hormone) production, which help with growth regulation and stem elongation. It is used in the formation of chlorophyll and some carbohydrates, conversion of starches to sugars and its presence in plant tissue helps the plant to withstand extreme temperatures. Poor mobility of zinc can amplify deficiencies.

Copper is crucial to several enzyme systems and cannot be replaced by any other metal ion. It is involved in cell wall formation, electron transport and oxidation reactions. Copper also affects the formation and chemical composition of cell walls which in turn affects lignification and cell wall strength. Copper plays a key role in Vitamin A production.

Manganese is an enzyme activator which helps with nitrate assimilation. It is primarily involved with photosynthesis and chlorophyll production.

COMPLETE ZMC

CHARACTERISTICS: pH: 8.5 – 10.5; Specific Gravity: 1.92 – 1.94

AUS Analysis W/W%: 2.3% N, 50% Zn, 19% Mn, 5.8% Cu.

International Analysis W/W%: 1.2% N, 26% Zn, 9.9% Mn, 3.0% Cu.

APPLICATION

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 0.5 – 2 L/ha** in a minimum of 15 - 60 L final spray volume.* Best applied at 3 – 4 true leaf, may be used at other growth stages. For maintenance, use the higher rate. Best applied at late cabbage stage, may be use at other stages in Canola. For Cotton, apply to boost growth early in season & post waterlogging events. *Aerial application: use maximum practicable water rates. For cotton and pastures, increase dilution rates to 1:60.

DECIDUOUS TREE CROPS: Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 1 – 3 L/ha** in a minimum of 100 - 300L final spray volume. **Fertigation: 2 – 3 L/ha.** Spray at early bud, post petal fall. Apply post harvest at higher rates of 3L/ha Note: Avoid applications during flowering. For Stone Fruit: Dormancy spray only. **DO NOT APPLY to foliage or fruit.**

EVERGREEN TREE CROPS: Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 1 – 3 L/ha** in a minimum of 100 - 300L final spray volume. **Fertigation: 2 – 3 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: 1 – 3 L/ha** in a minimum of 100 - 300L final spray volume. **Fertigation: 2 – 3 L/ha.** Apply at regular intervals from 5th leaf until 21 days pre harvest. Best applied pre flowering. Apply with compatible crop protection sprays.

LEAFY VEGETABLES: Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 1 – 3 L/ha** in a minimum of 100 - 300L final spray volume. **Fertigation: 2 – 3 L/ha.** Best applied at 3 – 4 true leaf, may be used at other growth stages. For maintenance, use the higher rate. Apply with compatible crop protection sprays.

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 1 – 3 L/ha** in a minimum of 100 - 300L final spray volume. **Fertigation: 2 – 3 L/ha.** Apply regularly, may substitute for urea or sulphate of ammonia. Can be used in organic production to supply N. Apply with compatible crop protection sprays.

VINE and BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 2 – 4 L/ha** in a minimum of 200 - 800L final spray volume. **Fertigation: 2 – 3 L/ha.** First application: shoots 10cm long. Second application: 5% flowering. Do not exceed 2x concentration or 2x the per hectare rate. Use the higher fertigation rate post harvest. Note: foliar spray, **DO NOT USE at concentrations less than 1:50.**

Fertigation rates are dependent on seasonal nutrient demand. Agitate contents well prior to application.

SEED DRESSING

BROADACRE: Barley, Cotton, Oats, Triticale, Wheat. **Rate L / Tonne seed – 1.5 – 2.5.** Canola. **Rate L / Tonne seed – 10 – 15.** Grain Legumes. **Rate L / Tonne seed – 2.5 – 5.** Maize, Rice. **Rate L / Tonne seed – 5 – 7.** Min Dilution (for all of the above) Mix with sufficient water or compatible liquid plant protection products to ensure adequate coating of seed. Comments (for all of the above) If using lower rates follow up tissue tests may be required to determine the need for foliar applications post emergence. If applied without dilution uneven seed coverage may occur. Apply 1 – 3 L water tonne seed, depending on seed moisture content & ambient air temperature. Some of the water may be substituted with Kelpak (a plant growth promoter) at **1 – 2 L / tonne of seed** , with the upper rate being applied to small seeds such as Canola. Kelpak assists the germination process & encourages root development. **Complete ZMC is NOT COMBATABLE with rhizobia inoculant products.** Potato Seed piece. **Rate L / Tonne seed – 2 – 5 L/ha.** Min dilution – 1:20. Apply in minimum of 200L water/ ha with compatible plant protection product, seed piece spray. Sugar cane. **Billet spray / dip. Rate L / Tonne seed – 1.5 – 7.5 L/ha.** Min dilution – 1:20. Apply with compatible fungicide treatment at planting.

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NOTE: The suggested rates of application of the Product are designed for typical Australian conditions and should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28°C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.