

# ACTIVIST® ZINC

*NPKS 5-0-0-0, 30% Zinc*



An activated source of zinc for foliar & seed dressing applications

## BENEFITS OF ACTIVIST® ZINC

- Highly micronised, controlled released, low salt index zinc suitable for all crops.
- Incorporating Agrichem's Activist® Technology delivering rapid longer lasting foliar uptake, followed by 4 – 6 weeks of extended uptake. Contains Agrichem cofactors to "Activate" Zinc uptake. Enhance uptake with lower application rates & less wastage.
- Suitable for seed treatment, foliar and soil application.
- Can minimise the impact of sulfur nylea herbicides.
- Maximise early growth and yield potential.

## THE IMPORTANCE OF ZINC

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 helps 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 tolerate extreme temperatures. The poor mobility of zinc can amplify deficiencies.

## THE IMPORTANCE OF NITROGEN

Nitrogen is the key nutrient that drives growth. Nitrogen forms proteins and amino acids to increase growth and crop yield. It is the essential building block of plant structure and is vital to plant growth. Nitrogen is often lost from the soil through leaching, volatilisation and microbial action. Nitrogen helps in the amino acid metabolism, production of plant hormones, cell growth and enzyme production. These enzymes catalyse various metabolic activities leading to sugar, starch and oil production.

# ACTIVIST® ZINC

CHARACTERISTICS: pH: 8.5 – 10; Specific Gravity: 1.34 – 1.35

AUS Analysis W/W%: 5.0% N, 30% Zn.

International Analysis W/W%: 3.7% N, 22.2% Zn.

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## APPLICATION

**BROADACRE** Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 0.15 – 3 L/ha** in a minimum of 10 - 60 L final spray volume. **Fertigation: 0.6 - 2 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.

**HERBICIDE REMEDIATION:** **Foliar: 0.25 – 0.5 L/ha** in a minimum of 10 - 20 L final spray volume. Activist® Zinc rapidly remediates unwanted, on crop herbicide effects attributed to Sulfonylurea (SU) & other herbicides.

**DECIDUOUS TREE CROPS:** Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 0.5 – 2 L/ha** in a minimum of 20 - 100L final spray volume. **Fertigation: 2 – 4 L/ha.** Spray at early bud, post petal fall. Apply post harvest spray at higher rates of 3L/ha Note: Avoid applications during flowering.

**EVERGREEN TREE CROPS:** Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 0.5 – 2 L/ha** in a minimum of 25 - 100L final spray volume. **Fertigation: 2 – 4 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 – 2 L/ha** in a minimum of 25 - 50L final spray volume. **Fertigation: 1 – 3 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 – 1.5 L/ha** in a minimum of 25 - 75L final spray volume. **Fertigation: 1 – 3 L/ha.** Apply at 3 -4th leaf stage.

**ROOT VEGETABLES:** Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 0.5 – 1.5 L/ha** in a minimum of 25 - 75L final spray volume. **Fertigation: 1 – 2 L/ha.** Foliar spray, early season or when leaf area is sufficient to intercept spray. Apply with compatible crop protection sprays.

**VINE and BERRY CROPS:** Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 0.5 – 1.5 L/ha** in a minimum of 40 - 120L final spray volume. **Fertigation: 1 – 2. L/ha** First foliar application shoots 10 cm long. Second application less than 5% flowering. Do not use at <1:20 concentration. Up to 2 L /ha can be used without detriment to the crop. Fertigation rates are dependent on seasonal nutrient demand.

## SEED DRESSING

**BROADACRE:** Barley, Cotton, Oats, Triticale, Wheat. **Rate L/Tonne seed: 4 – 8.** Canola, **15 – 20 L/t.** Grain Legumes, **6 – 8 L/t.** Maize, Rice, **6 – 8L/t.** Min dilution, Mix with sufficient water or compatible liquid plant protection products to ensure adequate coating of seed. 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 germination process & encourages root development. Activist® Zinc is not compatible with rhizobia inoculant products. **Potato Seed piece. 3 – 10 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. **3 – 15 L/ha.** Min dilution, 1:20. Apply with compatible fungicide treatment at planting.

Foliar dilution ratios: A dilution of 1:100 means 1 part product to a minimum of 100 parts water.  
In hot weather use a more dilute mixture. Agitate contents well prior to application.

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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.