



**AG~NUTRI  
PTY. LTD.**

The proven formulation for potato production in SA

# LIG-ZINC + Mn

- ▶ Fully chelated for maximum crop availability
- ▶ Binds to leaves even under centre pivot irrigation
- ▶ Can be applied very early with minimal leaf area
- ▶ Absorbed and available to the plant very quickly
- ▶ Optimizes tuber set, improves pack-out & crop value
- ▶ Shortens the growing period for earlier harvest



## Application

Due to LIG-ZINC + Mn being highly available and utilized very quickly it requires only 3 applications during the growing of the crop.

Rate: 4 L/ha

Timing: 7, 21 & 35 Days after emergence





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Early application of **LIG-ZINC + Mn** (containing Zn 5% + Mn 5%) is very important for tuber initiation in potatoes. Summer grown potatoes throughout SA commence tuber initiation (hooking) 1-2 weeks after emergence and require good levels of **Zinc** within the plant to ensure optimal tuber set.

**Zinc** is essential for the synthesis of plant hormones.

These include growth hormones such as:

Cytokinins – top growth

Gibberellins – top growth & flowering

Auxins – root & top growth

And also stress hormones such as:

Abscisic Acid - senescence

Jasmonic Acid – tuber initiation

When potato plants are setting tubers, during the reproductive stage, there must be adequate levels of the 'stress hormone' in order to slow plant growth and optimize tuber set. Therefore early application of **LIG-ZINC + Mn** may **temporarily stop or reduce plant growth** in favour of reproduction. It is also important to remember that high nitrogen application during the reproductive stage will inhibit tuber set, as nitrogen stimulates the levels of 'growth hormones'. Therefore the right balance of Nitrogen and **Zinc** during the early stages of growth is essential.

The effects of Zinc deficiency and high plant Nitrogen levels on tuber set are significant.

1. Poor tuber set > Lower yields
2. Uneven tuber size > Poor pack-out
3. Secondary tuber set > Poor pack-out
4. Poor tuber quality > Less \$/ha

**LIG-ZINC + Mn** is extremely effective because of the speed it is absorbed and utilized by the potato plant.

• SA/TAS/WA - 0408 633 661 • QLD/NT - 0439 520 744 • VIC/NSW – 0407 040 820

• Email: [info@sjbagnutri.com.au](mailto:info@sjbagnutri.com.au) • Technical support - 0407 040 820 • Fax: (03) 5862 1279 •

