

# LIGNO-BORON



**AG~NUTRI  
PTY. LTD.**

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**A highly available  
form of Boron for  
*Almond* production**

**8% Boron (w/v) as Ammonium Ligno-Polyborate**

**Boron is the most essential trace element for almond production. Through a highly specialized process, SJB AG-NUTRI has formulated a foliar boron that is readily absorbed by almond leaves. The ammonium ligno-polyborate complex acts like a chelate allowing boron to be readily absorbed and utilized by the tree**

**Application Rates: 2 L/ha as a bud spray & at Flowering & 5 L/ha Post Harvest.**

## **Role of Boron in Almond Production**

### **Flowering**

Boron is needed for pollen tube growth. Boron deficiency in almonds results in lower numbers of flowers and fruit set, reduced flower viability and excessive bud or flower drop. Obviously this can have a serious affect on fruit yield and reductions of 20-50% are not uncommon in boron deficient soils.

### **Cell wall strength & development**

Boron deficiency tends to weaken trees while also making them more susceptible to fungal or bacterial diseases. Boron like calcium is critical for cell wall structure as well as hull formation and this is why almonds have such a high boron requirement.

### **Sugar transport**

Boron helps to maintain membrane permeability of phloem sieve tubes which transport sugars from the leaves to the fruit. Boron deficiency causes blockages in these tubes that inhibits sugar movement to developing fruits.

### **Water & nutrient uptake**

As with sugar transport, uptake of nutrients and water from the soil is the optimum functioning of root hair membranes. Low boron levels reduce the efficiency of water and nutrient uptake (eg. calcium) which can be detrimental to fruit yield and quality especially if nutrient or moisture shortages occur at critical growth stages like flowering.

**LIGNO-BORON is compatible with LIG-ZINC + Mn & Agri-chemicals**

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