

OPTI K

NPKS 3-0-27-0



Chloride & Sulphur free Potassium to improve colour, size and flavour of fruits

BENEFITS OF OPTI K

- Provides highly available potassium via *in-situ* direct synthesis acetate technology.
- Unique blend enhances crop strength, stability, quality & yield.
- High concentration, for lower rate applied per hectare.
- Easy to use clear liquid formulation.

THE ROLE OF POTASSIUM

Highly mobile in the plant, potassium regulates the turgidity of cells and is therefore important in stomata control and modulation of transpiration. Potassium plays a vital role in activating enzymes (such as ATPase) and supporting photosynthesis in plants. It improves nutrient transport, protein synthesis, and carbohydrate metabolism, while also enhancing stress tolerance to drought, salinity, and diseases. Adequate potassium boosts crop yield, fruit quality attributes such as colour and flavour, and strengthens plant structures, reducing the risk of lodging.

THE ROLE OF NITROGEN

Nitrogen is the major building block in protein and chlorophyll. It is also essential for lipid and cytoplasm formation. Highly mobile in the plant, it is translocated and utilised in the growing tips. It is vital to plant growth but can be a limiting factor in uptake of other nutrients. Nitrogen is often leached from the soil therefore regular application in low doses will ensure efficient uptake without excessive losses.

OPTIK

CHARACTERISTICS: pH: 7.5 – 8.5; Specific Gravity: 1.29 – 1.31

AUS Analysis W/W%: 2.6% N, 27% K

International Analysis W/W%: 2.0% N, 25% K₂O

APPLICATION

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 5 – 6 L/ha** in a minimum of 50 – 75 L final spray volume for ground rigs and 4 – 6 L/ha in a minimum of 40 – 60 L final spray volume in aerial rigs. **Fertigation: 30 – 50 L/ha.** Multiple treatments may be needed, 2 – 3 treatments once plants are well established.

DECIDUOUS TREE CROPS: Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 4 – 6 L/ha** in a minimum of 600 – 900L final spray volume. **Fertigation: 10 – 40 L/ha.** Apply to newly hardened spring flush or during active growing period and post-harvest. **DO NOT apply as a foliar to nectarines during leaf growth. Test a small area for crop safety and observe for 72 hours before treating entire crop.** Can be applied foliar at post-harvest but before leaf drop and pre-flowering.

EVERGREEN TREE CROPS: Such as Avocado, Banana, Citrus, Macadamia, Mangoes, Lychee. **Foliar: 3 – 7 L/ha** in a minimum of 450 – 1050L final spray volume. **Fertigation: 30 – 50 L/ha.** Apply to newly hardened spring flush or during active growing period and post harvest.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins, Zucchini. **Foliar: 5 – 10 L/ha** in a minimum of 500 – 1000L final spray volume. **Fertigation: 20 – 40 L/ha.** Apply when plants are commencing flowering and repeat at 10 – 14 day intervals, or as required.

LEAFY VEGETABLES: Such as Endive, Fennel, Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 4 – 6 L/ha** in a minimum of 600 – 900L final spray volume. **Fertigation: 20 – 40L/ha.** Foliar spray 14 – 21 days post transplant.

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 5 – 8 L/ha** in a minimum of 600 – 1200L final spray volume. **Fertigation: 15 – 40 L/ha.** Apply when sufficient leaf area present, repeat every 3 – 4 weeks. **Potatoes:** After emergence and during canopy closure, fertigate at bulking.

VINE and BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 3 – 7 L/ha** in a minimum of 450 – 1050L final spray volume. **Fertigation: 10 – 50 L/ha.** Foliar spray as required to lift potassium levels. Use double rate post harvest before leaf fall to improve nutrient levels prior to dormancy.

Fertigation rates are dependent on seasonal nutrient demand.

Agitate contents well prior to application.

DO NOT apply in the heat of the day.

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NOTE: The suggested rates of application are designed for typical growing conditions and should be used as a guide only. The rates of application and dilution necessary for optimum results may vary depending upon the user's particular environment and application processes. Good agricultural practice requires that applications be avoided under extreme weather conditions such as temperature over 28°C, high humidity, frost, rain etc. Before applying the product 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 (sap) tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.