

# KELPAK®



*100% Organic Liquid Seaweed Concentrate*



Concentrated kelp product with highly active plant hormones to promote root growth, pollination, fruit quality and stress mitigation

## BENEFITS OF KELPAK®

- An auxin-based product that promotes larger and more vigorous root systems, and thus growth.
- As soil calcium can only be taken up by new root tips, Kelpak-driven new root growth facilitates uptake of calcium.
- Natural plant hormones help crops recover from stress situations.
- Encourages strong cell development.
- Slows senescence in many crops.
- Improved general plant health enhances plant resistance to nematodes and other pest and fungal diseases.
- Completely plant available.
- pH makes it compatible with a wide range of agricultural chemicals.
- Does not cause alkaline hydrolysis.

## WHY IS KELPAK THE WORLD'S LEADING SEAWEED EXTRACT?

In comparison to other seaweed products, Kelpak® contains the highest levels of natural growth hormones auxins and cytokinins (11.0 mg/L of auxin and 0.031 mg/L of cytokinin). Natural high levels are preserved by the cold cell burst production process which is unique to Kelpak® and not denatured as happens with heat or hydroxide extraction processes.

## THE ROLE OF AUXINS AND PLANT HORMONES

The auxins and other plant hormones present in Kelpak® are responsible for adventitious root initiation and overall plant cell enlargement. These plant hormones also assist in improving pollination, fruit quality and mitigating stresses caused by environment, toxicities and moisture.

# KELPAK®

CHARACTERISTICS: pH: 4.4 - 4.6; Specific Gravity: 1.02 - 1.05

AUS Analysis W/V%: 100% Liquid seaweed concentrate

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## APPLICATION

**BROADACRE:** Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 2 – 3 L/ha** in a maximum of 600L final spray volume. Spray at 4 to 5-leaf stage. In Pasture, Spray during early growth after emergence. Repeat 7 to 14 days after cutting or grazing.

**DECIDUOUS TREE CROPS:** Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 3 L/ha** in a maximum of 1000L final spray volume. **Dip rate, new planting: 1:100 dilution.** Dip bare roots for 5 minutes before transplant, or Soak seedling bag before transplant, or soak soil around trees after plant-out. Spray at 30% bloom. Repeat twice at 10 to 12 day intervals. Spray at fruit set (10 mm fruit diameter). Repeat twice at 14 day intervals.

**EVERGREEN TREE CROPS:** Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 3 L/ha** in a maximum of 1000L final spray volume. **Dip rate, new planting: 1 : 200-300 dilution.** Spray avocado trees at the beginning of spring growth. Repeat at 50% flowering. Spray macadamia trees at start of bloom. Repeat 4 times at monthly intervals. Spray at fruit set (10 mm fruit diameter). Repeat twice at 14 day intervals. If water volume exceeds 1000 L/ha, increase Kelpak® rate to retain 1:300 dilution. Dip bare roots for 5 minutes before transplant, or soak seedling bag before transplant, or soak soil around trees after plant-out.

**Banana.** **Foliar: 2 – 4 L/ha** in a maximum of 1000L final spray volume. **Dip rate, 1:100 dilution.** Apply to base of the sucker. Repeat after 6 months. Spray pre-flower. Repeat 3 times at monthly intervals.

**FRUITING VEGETABLES:** Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins. **Foliar: 2 – 3 L/ha** in a maximum of 1000L final spray volume. Dip rate 1:100 dilution. **Dip tray with seedlings** in solution, or wet seedling tray with watering can before transplant. Spray 14 days after transplant. Repeat once or twice at 14 day intervals. Direct seeded plants receive first foliar application at the 4-leaf stage.

**LEAFY VEGETABLES:** Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 2 L/ha** in a maximum of 800L final spray volume. Dip rate, 1:100 dilution. **Dip tray with seedlings** in solution, or wet seedling tray with watering can before transplant, or for direct seeding, Spray at 3 to 5-leaf stage. Repeat once or twice at 14 to 21 day intervals.

**ROOT VEGETABLES:** Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 2 – 4 L/ha** in a maximum of 800L final spray volume. **Dip rate, 1:300 dilution.** Dip seed potatoes before planting for approximately 5 minutes, or spray in furrow before covering, then spray after emergence at 15 cm crown diameter (14 to 28 days DAE). For other crops: Spray 14 to 21 days after transplant, or spray at 3 to 4-leaf stage for direct seeded plants. Repeat foliar application twice at 14 to 21 day intervals. Do not apply to onions or garlic after bulb swelling.

**VINE and BERRY CROPS:** Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 3 L/ha** in a maximum of 1000L final spray volume. **Dip rate, 1:100 dilution.** Spray after full bloom. Repeat 2 to 3 times at 10 to 12 day intervals (increase Kelpak® rate to maintain 1:300 dilution when high water volumes are used). Apply 2 to 3 times as bunch Dips, or directed bunch sprays at 4 to 14 mm berry size.

Fertigation rates are dependent on seasonal nutrient demand.

Agitate contents well prior to application.

\*Aerial applications: use maximum practical water rates.

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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.