agrichem®

KELPAK®

100% Liquid Seaweed Concentrate

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

BENEFITS OF KELPAK®

- An auxin-like product that promotes larger and more vigorous root systems, improving plant nutrient & water uptake and subsequent foliar 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, including reduction of transplant shock.
- Encourages strong cell development, increases pollen germination & tube growth, fertilisation & fruit set.
- Slows senescence in many crops, improves shelf-life and produce quality during cold storage.
- 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 appreciable concentrations of polyamines and phlorotannins (amongst other compounds), which can elicit beneficial effects in plants. Naturally high levels of these compounds are preserved by the cold cellular burst extraction process which is unique to Kelpak® and not denatured as happens with heat or hydroxide extraction processes.

THE ROLE OF AUXIN LIKE COMPOUNDS AND PLANT HORMONES

Kelpak's auxin-like activity is much higher than an 11 ppm equivalent of Indole-3-acetic acid (IAA; an auxin). The auxin-like compounds 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.

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CHARACTERISTICS: pH: 4.0 – 4.6; Specific Gravity: 1.01 – 1.03

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

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 21 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, and spray 3 to 5 times during early active growth at 21-day intervals. Spray at 50% bloom. Repeat twice at 10 to 14 day intervals. Spray at fruit set (10 mm fruit diameter). Repeat twice at 14-day intervals. **DO NOT apply as a foliar to Stone Fruits particularly Apricots, Nectarines and some varieties of Peaches during leaf growth.** Can be applied foliar at post-harvest but before leaf drop.

EVERGREEN TREE CROPS: Such as Avocado, Banana, Citrus, Macadamia, Mangoes, Lychee. Foliar: 2 – 3 L/ha in a maximum of 1000L final spray volume. Dip rate, new planting: 1:200 – 300 dilution. **Avocado.** Spray avocado trees at the beginning of spring growth. Repeat at 50% bloom with application of gibberellic acid inhibitor and repeat 14 days later. **Macadamia.** Spray macadamia trees at start of bloom. Repeat 4 times at monthly intervals. **Citrus and other crops.** 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-bloom. Repeat 2 to 3 times at monthly intervals.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins, Zucchini. 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 to 21 day intervals. Direct seeded plants receive first foliar application at the 3 to 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. **Potatoes.** 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 after emergence). **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: 2 – 3 L/ha in a maximum of 1000L final spray volume. Dip rate, 1:100 dilution. Spray after fruit set. Repeat 2 to 3 times at 10 to 14 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. For improved sugar content and colour, spray at start of berry softening (veraison) and repeat 14 days later. **Kiwi Fruit**. Foliar: 3L/Ha in a maximum of 1000 L final spray volume. Apply from start of flowering to fruit set stage. Repeat once or twice at 10 to 12 day intervals. Boron may be applied with Kelpak sprays for optimum effect. Do not apply boron where boron toxicity may occur.

SEED DRESSING: Apply at a rate of 5 ml/kg of seed.

Fertigation rates are dependent on seasonal nutrient demand. Agitate contents well prior to application.

Do not dilute more than 1:500 with foliar application.

Do not dilute more than 1:1000 with application through drip irrigation, apply as a pulse during last 10 minutes of irrigation cycle.

Do not apply more frequently than 10 days apart.

Maintain pH of spray solution below 7.

Compatible with most agrochemicals.

*Aerial applications: use maximum practical water rates.

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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.