Kelpak Liquid Seaweed Concentrate

KELPAK TECHNICAL DATA SHEET

Source

Freshly harvested Ecklonia maxima seaweed

Manufacturer

Kelp Products (Pty) Ltd, Simon's Town, South Africa

Physical and chemical properties

Appearance:	Light brown aqueous liquid
Odor:	Faint seaweed
pH:	4.0 - 4.6
Boiling point:	101°C
Specific gravity:	1.01 - 1.03

Manufacturing process

Cold cellular burst extraction method preserves the delicate compounds in the cell sap.

Activity

Regulates and enhances crops' physiological processes.

KELPAK BENEFITS

- Prolific increase in lateral roots that improves plant nutrient & water uptake and subsequent foliar growth.
- Increase in pollen germination & tube growth, fertilization & fruit set.
- Increase in yields with better returns.
- Increases growth of seedlings and nursery plant-outs.
- Alleviates the effect of abiotic and biotic stresses, including reduction of transplant shock.
- Increases fruit retention, size, color, and sugar content.
- Increases photosynthesis and carbohydrate production.
- Improves shelf-life and produce quality during cold storage.







KELPAK APPLICATION

- Seed coating
- Planter application
- Root dip
- Soil drench
- Drip irrigation
- Foliar sprays: conventional, electrostatic, aerial

APPLICATION NOTES

- 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.

PRODUCT HANDLING AND SAFETY

Refer to product Safety Data Sheet

STORAGE AND SHELF LIFE

- Store in the original labeled container in a cool place away from direct sunlight.
- Avoid direct sunlight and temperatures below 32°F/0°C or above 104°F/40°C (incidental freezing does no harm).
- Keep separate from food and feed products and out of reach of children and animals.
- Product stability guaranteed for 2 years in sealed containers under normal storage conditions.



KELPAK APPLICATION CHART PG 1

CROP	DOSAGE	APPLICATION
ALMONDS	3 L/ha	Spray at 50% bloom and repeat twice at 10–14-day intervals
AVOCADOS	3 L/ha	Spray with gibberellic acid inhibitor at 50% bloom and repeat 14 days later
BANANAS	2-4 L/ha	Spray pre-bloom and repeat 2 to 3 times at monthly intervals
BLUEBERRIES, POME & STONE FRUIT	3 L/ha	Spray at fruit set and repeat twice at 14-day intervals
CHERRIES	3 L/ha	Spray at 50% bloom and repeat twice at 10-14 day intervals. Optional sprays at straw and 14 days later
CITRUS	200 ml/100 L water	Spray 3 times between white tip and full bloom Optional spray at fruit set. Spray post-harvest with nitrogen applications
MACADAMIAS	200 ml/100 L water	Spray at start of bloom and repeat 4 times at monthly intervals
NEW ORCHARD &	1 L/100 L water	Dip bare roots of nursery trees before transplant
VINEYARD PLANTINGS	500 ml/100 L water	or Soak seedling bags before transplant, or soak soil around trees after plant-out and
	200 ml/100 L water	Spray 3 to 5 times during early active growth at 21-day intervals
PECANS & WALNUTS	3 L/ha	Spray at catkin elongation and repeat twice at 14-day intervals
STRAWBERRIES	1 L/100 L water	Dip the runners in solution at plant-out
	3 L/ha	and Apply at 21-day intervals, cease application 1 month before end of harvest
TABLE GRAPES: ALL CULTIVARS Bunch stretching	2 L/ha 3 L/ha	Spray at 5-10 cm shoot growth Spray in 1000 L water or less after set (4 mm berry size) Repeat 2 to 3 times at 10–14-day intervals
Berry size, uniformity	4-5 L/ha	or Spray as above with electrostatic applicators or
	1-1,5 L/100 L water	Dip bunches 2 to 3 times at 4-12 mm berry size
Improved sugar and color	3 L/ha	Spray at start of berry softening (veraison) and repeat 14 days later
WINE GRAPES Bunch stretching Berry set, uniformity, yield increase	2 L/ha 2 L/ha	Spray at 5-10 cm shoot growth Spray 2 weeks before flowering and repeat at start of flowering to 30% bloom
TURF & SPORTS FIELDS	2 L/ha	Spray at start of growing season and repeat 14 days later. Repeat sprays after summer heat stress
GREENS	250-500 ml/100 L water	Apply 20 L solution to 100 m2 and repeat monthly Use higher application rate with establishment
FLOWERS & ORNAMENTALS	100 ml/10 L water	Dip tray with seedlings in solution, or wet seedling tray/bag before transplant and
	50 ml/10 L water	Spray 14 days after emergence or transplant and repeat at 21-day intervals



KELPAK APPLICATION CHART PG 2

CROP	DOSAGE	APPLICATION
CAPSICUMS: PAPRIKA, PEPPERS. CRUCIFEROUS CROPS LEAF VEGETABLES LETTUCE	1 L/100 L water 2-3 L/ha	Dip seedling tray with seedlings in solution, or wet seedling tray with a watering can before transplanting and Spray 14 days after transplant and repeat once or twice at 14–21-day intervals
ONIONS TOMATOES		Start sprays at 3 to 4-leaf stage for direct seeded plants
CARROTS & CHICORY	2 L/ha	Spray at 4 to 5-leaf stage and repeat 14 to 21 days later
CUCURBIT CROPS: BUTTERNUT CANTALOUPE CUCUMBER	1 L/100 L water	Dip seedling tray with seedlings in solution, or wet seedling tray with a watering can before transplanting and
MELON PUMPKIN WATERMELON	3 L/ha	Spray 14 days after transplant and repeat 14 to 21 days later
		Start sprays at 3 to 4-leaf stage for direct seeded plants
DRY BEANS, GREEN BEANS, PEAS	2 L/ha	Spray between V6 (6-Trifoliolate) and R1 (start of flowering) growth stages
GARLIC	1 L/100 L water	Soak seed pieces for 15 minutes before planting
	2 L/ha	Spray at 3 to 4-leaf stage and repeat once or twice at 14–21-day intervals
LUCERNE	2 L/ha	Spray 7 to 21 days after cutting or grazing
POTATOES	500 ml/100 L water	Dip seed potatoes for approximately 5 minutes before planting or
	1 L/ha	Spray seed potatoes before plant or in plant furrow with planter
	3 L/ha	Spray at 15 cm rosette stage and
	2 L/ha	Spray 10 to 14 days later, but not later than tuber formation
SOYBEANS	2 - 4 L/ha	Spray between V3 (3-Trifoliolate) and R1 (start of flowering) growth stages
SUGAR BEET	3 - 4 L/ha	Spray at 4-pair-leaf stage
SUGAR CANE	350 ml /100 L water	Dip stalks or spray seed pieces in furrow at planting
	2 L/ha	and Spray at 60 to 90 cm leaf length stage
WHEAT, BARLEY, CANOLA, MAIZE, OATS, RICE	2 L/ha	Spray at 4 to 5-leaf stage (BBCH 14-15)
ROSES: PLANTING & GREENHOUSE	1 L/1000 L water	Drench flower beds of newly planted roses, or at start of production cycle for established roses at 2 L/m2 and repeat 14 days later and Spray 21 days after second flower bed drench
	2-3 L/1000 L water	Spray after start of new growth and repeat 21 days
OPEN PRODUCTION	2-3 L/ 1000 L Water	later. Repeat sprays 5 months later



CONTACT DETAILS

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