Kelpak liquid seaweed extract

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 aqueous liquid
Odour:	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

Elicits crops physiological processes in crops for increased yields and quality

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, colour and sugar content
- Increases photosynthesis and carbohydrate production
- Improves shelf-life and produce quality during cold storage

UNIQUE CELLBURST PROCESS FOR CONSISTENT RESULTS

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 MSDS

STORAGE AND SHELF LIFE

- Store in the original labeled container in a cool place away from direct sunlight
- Avoid direct sunlight and temperatures below 0°C or above 40°C
- Keep separate from food and feed products and out of reach of children and animals.
- Product stability guaranteed for a maximum of 2 years in sealed containers under normal storage conditions

kelpak

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 start of bloom and repeat 4 times at monthly intervals
NEW ORCHARD & VINEYARD PLANTINGS	1 L/100 L water 500 ml/100 L water 200 ml/100 L water	Dip bare roots of nursery trees before transplant or Soak seedling bags before transplant, or soak soil around trees after plant-out and 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 3 L/ha	Dip the runners in solution at plant-out and Apply at 21 day intervals, cease application 1 month before end of harvest
TABLE GRAPES: ALL CULTIVARS Bunch stretching Berry size, uniformity Improved sugar and colour	2 L/ha 3 L/ha 4-5 L/ha 1-1,5 L/100 L water 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 or Spray as above with electrostatic applicators or Dip bunches 2 to 3 times at 4-12 mm berry size 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 GREENS	2 L/ha 250-500 ml/100 L water	Spray at start of growing season and repeat 14 days later. Repeat sprays after summer heat stress Apply 20 L solution to 100 m^2 and repeat monthly Use higher application rate with establishment
FLOWERS & ORNAMENTALS	100 ml/10 L water 50 ml/10 L water	Dip tray with seedlings in solution, or wet seedling tray/bag before transplant and 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 ONIONS TOMATOES	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 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 MELON PUMPKIN WATERMELON	1 L/100 L water 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 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 2 L/ha	Soak seed pieces for 15 minutes before planting and 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 1 L/ha 3 L/ha 2 L/ha	Dip seed potatoes for approximately 5 minutes before planting or Spray seed potatoes before plant or in plant furrow with planter and Spray at 15 cm rosette stage and 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 2 L/ha	Dip stalks or spray seed pieces in furrow at planting 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 OPEN PRODUCTION	1 L/1000 L water 2-3 L/1000 L water 2-3 L/1000 L water	Drench flower beds of newly planted roses, or at start of production cycle for established roses at 2 L/m^2 and repeat 14 days later and Spray 21 days after second flower bed drench Spray after start of new growth and repeat 21 days later. Repeat sprays 5 months later

CONTACT DETAILS

KELP PRODUCTS
HEAD OFFICE

TEL: +27 21 786 2090

FAX: +27 21 786 3274

PO BOX 325

SIMON'S TOWN, 7995

SOUTH AFRICA

info@kelpak.com

WEB

kelpak.com

kelpak