PhylloKare™

Liquid Seaweed Concentrate
0-0-5

Koppert

GUARANTEED ANALYSIS

Soluble Potash (K_2O)	**5.0%**

Derived from seaweed extract (*Ascophyllum nodosum*) and potassium hydroxide

F002292

Distributed and guaranteed by:
Koppert Biological Systems, Inc.
1502 Old US 23
Howell, MI 48843
Tel: +1 800-928-8827

Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.html

PRODUCT OF CANADA

NET CONTENT:
2.5 U.S. Gal
9.4 Liters

NET WEIGHT:
24.2 lb
11.0 kg

US01003
v1.4(25.09.18)

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PRODUCT OF CANADA

GENERAL INFORMATION

PhylloKare™ Liquid Seaweed Concentrate has been researched around the globe, with trial results proving again and again **PhylloKare™ Liquid Seaweed Concentrate** works where it counts - in the field.

Apply in foliar or root application systems early in the season and continue throughout the entire growing period. Use **PhylloKare™ Liquid Seaweed Concentrate** as a supplement to a well balanced crop management program designed to maximize quality crop production. To achieve desired results, major and minor nutrient levels must be adequate to support increased production.

DIRECTIONS FOR USE

SHAKE WELL BEFORE USE.

Avoid contact with skin, eyes, and clothing. Applicators are recommended to wear appropriate personal protective equipment (PPE).

The product may not be applied near water, storm drains or drainage ditches.
The product may not be applied if heavy rain is expected.
The product may only be applied to the intended application site.

Contact your local dealer or advisor for specific use recommendations.

COMPATIBILITY

PhylloKare™ Liquid Seaweed Concentrate is compatible with most insecticides, fungicides and fertilizers. When interaction is unknown, a “jar” compatibility test is recommended.

STORAGE

Store in a cool, dry place away from direct sunlight. Do not allow product to freeze. Do not store at temperatures exceeding 104°F (40°C). This product does not contain preservatives. It has been manufactured and packaged under strict sanitary conditions to be stable during transportation and storage. Once opened, use product immediately to avoid risk of contamination. Use within the season purchased.

CAUTION

KEEP OUT OF REACH OF CHILDREN

Warranty Statement:
The manufacturer and distributor warrant that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions for use. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of the manufacturer and distributor. In no case shall the manufacturer or distributor be liable for consequential, special or indirect damages resulting from the use or handling of this product. The manufacturer and distributor make no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

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2 x 2.5 U.S. Gal
2 x 9.4 Liters

NET WEIGHT:
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2 x 11.0 kg

US01004

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PEEL / ENLEVER

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Peel the label for crop-specific rates and timings.

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v1.4(25.09.18)

APPLICATION GUIDELINES

PhylloKare™ Liquid Seaweed Concentrate is derived from marine plants harvested from the nutrient-rich waters of Eastern Canada. Consistent use of **PhylloKare™ Liquid Seaweed Concentrate** supplements a well- balanced crop nutrition program. Use **PhylloKare™ Liquid Seaweed Concentrate** to increase yield and quality, improve overall plant nutrition, improve plant establishment and development, improve plant vigor, and maximize crop potential during periods of stress. To achieve the desired results, the levels of major and minor nutrients must be adequate to support the increase in production. The following rates and timings of application are recommended for optimum efficacy.

Compatibility: PhylloKare™ Liquid Seaweed Concentrate is compatible with most insecticides, fungicides and fertilizers. Some pH adjustments may be required with acidic mixtures. Add surfactants after the product has completely dissolved in the tank solution. When mixing with calcium products, thoroughly mix **PhylloKare™ Liquid Seaweed Concentrate** with the water in the tank prior to adding the calcium product. If interaction of chemicals is unknown, a "jar" compatibility test is recommended.

Storage and Handling: The product does not contain preservatives and should be stored away from intense sunlight and heat. Avoid spillage as the product is very slippery and may create a hazard.

DIRECTIONS FOR USE

PhylloKare™ Liquid Seaweed Concentrate fully dissolves in water and is suitable for use in foliar, soil, and irrigation water applications. Regular applications are important for maximizing crop potential during unexpected stress.

Foliar Applications: Fill half the spray tank with water, begin agitating and gradually add recommended amount of **PhylloKare™ Liquid Seaweed Concentrate** with remainder of water and spray solution. Use enough water for good spray coverage.

The foliar spray should be applied as a fine mist, with low fluid velocity until the foliage is wet. Do not foliar-apply during times of moisture or heat stress. For best results apply during the cool part of the day or when temperatures are below 85 degrees Fahrenheit. Do not spray before or after rainfall or sprinkler irrigation. Use a surfactant for maximum dispersal and leaf adherence. Application rates for permanent crops should be adjusted based on plant size and leaf area.
For backpack sprayers use a solution of 0.3 to 0.5 oz per gallon of water. Adjust output to ensure spray is a fine mist and apply until foliage is wet, avoiding runoff.

Soil Applications: Soil applied treatments can be made by mixing with soil-applied fertility, directed sprays to the soil, sidedress treatments, applications through the irrigation systems or other methods which effectively apply **PhylloKare™ Liquid Seaweed Concentrate** to the soil. When making irrigation treatments dilute 1 part **PhylloKare™ Liquid Seaweed Concentrate** to a minimum of 50 parts of finished solution and agitate thoroughly. Continuous agitation of the supply tank is recommended. **PhylloKare™ Liquid Seaweed Concentrate** can be applied through drip, microjet, sprinkle, overhead, furrow, flood and other types of irrigation at the suggested rates. Apply after the system is fully pressurized and inject solution as necessary for uniform application. Fully flush system with clean water after application. Avoid heavy irrigations immediately following application.

Transplant Solution: To encourage early establishment of new transplants, treat with a solution of **PhylloKare™ Liquid Seaweed Concentrate** at the rate of 0.1 - 0.7% solution prior to transplanting.

Late Season and Post-Harvest Applications: PhylloKare™ Liquid Seaweed Concentrate is an excellent way to prepare perennial crops for next season's early growth. Apply to the soil or foliar using above methods.

Drench Treatment: Apply a soil drench using a dilution of 0.45 ounces per gallon of water. Applications can be made at 1-3 week intervals throughout the growing season.

GENERAL CROP APPLICATION RATES

Woody Perennial Crops (Trees, Vines, Bushes, etc.): Apply 32 to 96 ounces of **PhylloKare™ Liquid Seaweed Concentrate** per acre starting at regrowth in the spring. Repeat treatments every 7-30 days. At transplanting, an early establishment treatment can be used. Post-harvest applications can be made every 1-4 weeks from harvest to dormancy. Applications can be made either foliar or to the soil. Apply 3-5 days prior to an anticipated plant stress.

Other Fruit and Vegetable Crops: Apply 32 to 96 ounces of **PhylloKare™ Liquid Seaweed Concentrate** per acre starting at planting with repeat treatments every 7-30 days. Applications can be made either foliar or to the soil. Apply 3-5 days prior to an anticipated plant stress.

SPECIFIC APPLICATION RATES: FRUIT CROPS

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
AVOCADOS	**32 TO 96 OUNCES PER ACRE** **1st application:** at start of regrowth in the spring **2nd application:** 2 weeks pre-bloom **3rd application:** 2 weeks after petal fall **4th application:** before summer fruit drop **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
BUSHBERRIES (Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, etc.)	**32 TO 96 OUNCES PER ACRE** **1st application:** 4 weeks pre-bloom (soil) **2nd application:** 2 weeks pre-bloom **3rd application:** petal fall **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
CANEBERRIES (Blackberry, Loganberry, Raspberry, etc.)	**32 TO 96 OUNCES PER ACRE** **1st application:** at start of growth in the spring **2nd application:** 2 weeks pre-bloom **3rd application:** petal fall **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
CHERRIES	**32 TO 96 OUNCES PER ACRE** **1st application:** white bud **2nd application:** petal fall to shuck fall **3rd application:** exposed young fruit **4th application:** straw color Avoid sprays after straw- colored fruit on non-gibberellin blocks where early market is desired **Repeat:** during times of stress **Post-harvest application:** 2-4 weeks after harvest
CITRUS (Grapefruit, Lemons, Limes, Mandarins, Oranges, etc.)	**32 TO 96 OUNCES PER ACRE** **1st application:** start of growth in the spring (feather growth) **2nd application:** 2 weeks pre-bloom **3rd application:** petal fall **Repeat:** every 2-4 weeks during summer **Fall:** apply with gibberellin sprays in mid and late season varieties **Post-harvest application:** 2-4 weeks after harvest
CRANBERRIES	**32 TO 96 OUNCES PER ACRE** **1st application:** 4 weeks pre-bloom (soil) **2nd application:** 2 weeks pre-bloom **3rd application:** petal fall **Repeat:** every 2-4 weeks **Post-harvest application:** 2-4 weeks after harvest
GRAPES (Wine)	**32 TO 96 OUNCES PER ACRE** **1st application:** 1-4 inch shoot growth (foliar & soil) **2nd application:** 10-12 inch shoot growth (foliar & soil) **3rd application:** 5 days pre-bloom (foliar) Avoid foliar pre-bloom application in varieties that are prone to under shatter. Use high rate in pre-bloom sprays on varieties that tend to over shatter. **4th application:** 'BB' sized berries (2-3 mm) (foliar) **5th application:** veraison (foliar and soil) **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
GRAPES (Table, Raisin and Juice)	**32 TO 96 OUNCES PER ACRE** **1st application:** 1-4 inch shoot growth (foliar & soil) **2nd application:** 10-12 inch shoot growth (foliar & soil) **3rd application:** 5 days pre-bloom (foliar) Avoid foliar pre-bloom application in varieties that are prone to under shatter. Use high rate in pre-bloom sprays on varieties that tend to over shatter. **4th-6th applications:** sizing sprays (foliar) **7th application:** veraison (foliar & soil) **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
FIGS	**32 TO 96 OUNCES PER ACRE** **1st application:** at start of regrowth in the spring **Repeat:** every 2-4 weeks **Post-harvest application:** 2-4 weeks after harvest
KIWI	**32 TO 96 OUNCES PER ACRE** **1st application:** at start of regrowth in the spring **2nd application:** 2 weeks pre-bloom **3rd application:** petal fall **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
OLIVES	**32 TO 96 OUNCES PER ACRE** **1st application:** late winter (foliar) **2nd application:** 2 weeks pre-bloom **Repeat:** every 2-4 weeks through to harvest **Post-harvest application:** 2-4 weeks after harvest
PINEAPPLE	**32 TO 96 OUNCES PER ACRE** Foliar or soil applications at planting. Repeat every 2-4 weeks during the growth and fruit development periods.
POME FRUITS (Apples, Pears and Quince)	**32 TO 96 OUNCES PER ACRE** **1st application:** tight cluster **2nd application:** pink bud **3rd application:** petal fall **4th application:** 1/2 - 3/4" fruit **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
POMEGRANATE	**32 TO 96 OUNCES PER ACRE** **1st application:** start of growth in the spring **2nd application:** 2 weeks pre-bloom **3rd application:** petal fall **Repeat:** every 2-4 weeks **Post-harvest application:** 2-4 weeks after harvest
STONE FRUITS (Peaches, Nectarines, Apricots, Plums, Prunes, etc.)	**32 TO 96 OUNCES PER ACRE** **1st application:** pink/white bud **2nd application:** petal fall **3rd application:** jacket split **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
STRAWBERRIES	**32 TO 96 OUNCES PER ACRE** **Pre-plant:** 0.1 - 0.7% solution **Repeat:** soil applications every 14 days until harvest is complete
HYDROPONIC STRAWBERRIES	**0.45 TO 0.90 OUNCES PER 100 GALLONS OF WATER** In substrate culture systems, apply continuously with each fertigation cycle. In closed systems, reapply every 7-14 days

ADDITIONAL APPLICATIONS SHOULD BE MADE IMMEDIATELY PRIOR TO OR FOLLOWING STRESS PERIODS SUCH AS CHILL, HEAT OR DROUGHT.

SPECIFIC APPLICATION RATES: VEGETABLE CROPS

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
ASPARAGUS	**32 TO 96 OUNCES PER ACRE** For new plants, make a soil application at planting followed by soil or foliar applications every 14-21 days. For established plants, begin applications when harvest is complete and repeat every 14-21 days.
BRASSICA VEG. (Broccoli, Brussels Sprouts, Cauliflower, Collards, Cabbage, Kale, and Mustard Greens)	**32 TO 96 OUNCES PER ACRE** **1st application:** soil or transplant treatment at planting **Repeat:** soil or foliar applications every 14-21 days until harvest is complete
BULB VEG. (Garlic, Leeks, Onions, and Shallots)	**32 TO 96 OUNCES PER ACRE** **1st application:** soil applied treatment at planting **Repeat:** soil or foliar applications every 14-21 days until harvest is complete
CUCURBIT VEG. (Cantaloupe, Cucumbers, Gourds, Honeydew, Muskmelons, Squash, Pumpkins, and Watermelons)	**32 TO 96 OUNCES PER ACRE** **1st application:** soil or transplant treatment at planting **Repeat:** soil or foliar applications every 14-21 days until harvest is complete
FRUITING VEG. (Eggplant, Fresh Tomatoes, Processing Tomatoes, and Peppers)	**32 TO 96 OUNCES PER ACRE** **1st application:** soil or transplant treatment at planting **Repeat:** soil or foliar applications every 14-21 days until harvest is complete. Use adequate water for very good coverage. Minimum 40 GPA for mature plants is recommended.
LEAFY VEG. (Celery, Endive, Lettuce, Radicchio, Rhubarb, Spinach and Swiss Chard)	**32 TO 96 OUNCES PER ACRE** **1st application:** foliar application at the 2-4 leaf stage **Repeat:** foliar applications every 14-21 days until harvest
LEGUMES FRESH & PROCESSING (Beans, Garbanzos, Lentils and Peas)	**32 TO 96 OUNCES PER ACRE** **1st application:** soil applied treatment at planting **Repeat:** soil or foliar applications every 14-21 days until harvest
CARROTS	**32 TO 96 OUNCES PER ACRE** **1st application:** soil applied treatment at planting **Repeat:** soil or foliar applications every 14-21 days until harvest
HYDROPONIC CUCUMBERS	**0.45 TO 0.90 OUNCES PER 100 GAL. WATER** In substrate culture systems, apply continuously with each fertigation cycle. In closed systems, reapply every 7-14 days.
HYDROPONIC LETTUCE	**0.45 TO 0.90 OUNCES PER 100 GAL. WATER** In substrate culture systems, apply continuously with each fertigation cycle. In closed systems, reapply every 7-14 days.
HYDROPONIC PEPPERS AND TOMATOES	**0.45 TO 0.90 OUNCES PER 100 GAL. WATER** In substrate culture systems, apply continuously with each fertigation cycle. In closed systems, reapply every 7-14 days.

SPECIFIC APPLICATION RATES: NUTS

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
ALMONDS	**32 TO 96 OUNCES PER ACRE** **1st application:** pink bud **2nd application:** petal fall **3rd application:** before summer heat stress (late May, early June) **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
HAZELNUTS	**32 TO 96 OUNCES PER ACRE** **1st application:** at ovule growth initiation **2nd application:** first leaf expansion **Repeat:** every 2-4 weeks until harvest **Post-harvest application:** 2-4 weeks after harvest
PISTACHIOS	**32 TO 96 OUNCES PER ACRE** **1st application:** at early bud break **2nd application:** at bloom **3rd application:** fully leafed out **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest
TREE NUTS (Cashews, Pecans, Walnuts, Chestnuts, Macadamia, etc.)	**32 TO 96 OUNCES PER ACRE** **1st application:** 1% bloom **2nd application:** 30% bloom **3rd application:** 2 weeks after previous application **Repeat:** every 2-4 weeks during summer months **Post-harvest application:** 2-4 weeks after harvest

Contact your local Koppert representative or advisor for specific use recommendations.

SPECIFIC APPLICATION RATES: OTHER CROPS

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
HERBS & SPICES	**32 TO 96 OUNCES PER ACRE** **1st application:** soil or transplant treatment at planting **Repeat:** applications every 14-21 days
VEGETABLE SEED CROPS (All Varieties)	**32 TO 96 OUNCES PER ACRE** **1st application:** at planting (soil) **Repeat:** every 14-21 days Apply as foliar spray pre-bloom and 7-10 days before beginning "dry down" prior to harvest.
COFFEE	**32 TO 96 OUNCES PER ACRE** **1st application:** foliar or soil applications at planting **Repeat:** every 14-30 days **Post-harvest applications:** every 2-4 weeks after harvest Apply 3-5 days prior to an anticipated plant stress.
CACAO	**32 TO 96 OUNCES PER ACRE** **1st application:** foliar or soil applications at planting **Repeat:** every 14-30 days **Post-harvest applications:** every 2-4 weeks after harvest Apply 3-5 days prior to an anticipated plant stress.
PAPAYA	**32 TO 96 OUNCES PER ACRE** **1st application:** foliar or soil applications at planting **Repeat:** every 14-30 days **Post-harvest applications:** every 2-4 weeks after harvest Apply 3-5 days prior to an anticipated plant stress.
TURF	Make a 0.1% to 0.3% solution or apply 0.5 to 1.0 ounce per 1,000 square feet; apply to the root zone and/or foliage every 7-14 days. Do not apply near water, storm drains or drainage ditches. Do no apply if heavy rain expected. Apply this product only to your lawn, and sweep any product that lands on the driveway, sidewalk or street back onto your lawn.
FIELD ORNAMENTALS	Make a 0.1% to 0.3% solution; apply to the root zone or foliage every 7-14 days.
HYDROPONIC CUT FLOWERS	**0.45 OUNCES PER 100 GALLONS OF WATER** In substrate culture systems, apply continuously with each fertigation cycle. In closed systems, reapply every 7-14 days.
HOPS	**10 TO 16 OUNCES PER ACRE** **1st application:** at the start of training in the spring **Repeat:** every 2-4 weeks