



LIQUID SEAWEED CONCENTRATE

0.1 - 0.0 - 5.0

Guaranteed Analysis

Total Nitrogen (N) 0.1%

0.1% Water Soluble Nitrogen

Soluble Potash (K₂O) 5.0%

Derived from *Ascophyllum nodosum* and Potassium Hydroxide

F000148

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

NET CONTENT:

2.5 U.S. Gal
9.4 Liters

NET WEIGHT:

24.2 lb
11.0 kg



Manufactured by and guaranteed by:

Acadian Plant Health
Sustainably Empowering Plants.

Acadian Seaplants Limited
30 Brown Avenue
Dartmouth, Nova Scotia
Canada, B3B 1X8
Tel: +1 902 468 2840
Fax: +1 902 468 3474



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2 x 2.5 U.S. Gal
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GENERAL INFORMATION:

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

DIRECTIONS FOR USE

Shake well before use. Apply in foliar or root application systems early in the season and continue throughout the entire growing period. Use **ACADIAN® Organic 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.

Contact your local dealer or advisor for specific use recommendations.

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COMPATIBILITY

ACADIAN® Organic 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. 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 warrants 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 of 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. In no case shall the manufacturer be liable for consequential, special or indirect damages resulting from the use or handling of this product. The manufacturer makes 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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Peel the label for crop-specific rates and timings.

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APPLICATION GUIDELINES

ACADIAN® Organic Liquid Seaweed Concentrate is derived from marine plants harvested from the nutrient-rich waters of Eastern Canada. Consistent use of **ACADIAN® Organic Liquid Seaweed Concentrate** supplements a well-balanced crop nutrition program. Use **ACADIAN® Organic 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: **ACADIAN® Organic 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 **ACADIAN® Organic 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: This product does not contain preservatives and should be stored away from intense sunlight and heat. Avoid spillage as product is very slippery and may create a hazard.

DIRECTIONS FOR USE

ACADIAN® Organic 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 **ACADIAN® Organic Liquid Seaweed Concentrate** with remainder of water and spray solution. Use enough water for good spray coverage. For backpack sprayers use a solution of 0.3 to 0.5 oz per gallon of water.

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 just 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.

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 **ACADIAN® Organic Liquid Seaweed Concentrate** to the soil. When making irrigation treatments dilute 1 part **ACADIAN® Organic Liquid Seaweed Concentrate** in a minimum of 50 parts of finished solution and agitate thoroughly. Continuous agitation of the supply tank is recommended. **ACADIAN® Organic 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 **ACADIAN® Organic Liquid Seaweed Concentrate** at the rate of 0.1 – 0.7% solution prior to transplanting.

Late Season and Post-Harvest Applications: **ACADIAN® Organic 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 64 to 128 ounces of **ACADIAN® Organic 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, Vegetable and Field Crops: Apply 32 to 64 ounces of **ACADIAN® Organic 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	CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
AVOCADOS	64 TO 128 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	FIGS	64 TO 128 OUNCES PER ACRE 1st application: at start of growth in the spring Repeat: every 2-4 weeks Post-harvest application: 2-4 weeks after harvest
BUSHBERRIES (Blueberry, Currant, Elderberry, Goosberry, Huckleberry, etc.)	64 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	KIWI	64 TO 128 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
CANE BERRIES (Blackberry, Loganberry, Raspberry, etc.)	64 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	OLIVES	64 TO 128 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
CHERRIES	64 TO 128 OUNCES PER ACRE 1st application: white bud 2nd application: petal fall to shuck fall 3rd application: exposed young fruit 4th application: straw color Apply with gibberellin sprays. Avoid sprays after set-on colored fruit on non-gibberellin blocks where early market is desired. Repeat: during times of stress Post-harvest application: 2-4 weeks after harvest	PINEAPPLE	64 TO 128 OUNCES PER ACRE Foliar or soil applications at planting. Repeat every 2-4 weeks during the growth and fruit development periods.
CITRUS (Grapefruit, Lemons, Limes, Mandarins, Oranges, etc.)	64 TO 128 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	POME FRUITS (Apples, Pears and Quince)	64 TO 128 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
CRANBERRIES	64 TO 128 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	POMEGRANATE	64 TO 128 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
GBAPES (Wine)	64 TO 128 OUNCES PER ACRE 1st application: 1-4 inch shoot growth (foliar and soil) 2nd application: 10-12 inch shoot growth (foliar and 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: 'B' 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	STONE FRUITS (Peaches, Nectarines, Apricots, Plums, Prunes, etc.)	64 TO 128 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
GRAPES (Table, Raisin and Juice)	64 TO 128 OUNCES PER ACRE 1st application: 1-4 inch shoot growth (foliar and soil) 2nd application: 10-12 inch shoot growth (foliar and soil) 3rd application: 3 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 application: sizing sprays (foliar) 7th application: veraison (foliar and soil) Repeat: every 2-4 weeks during summer months Post-harvest application: 2-4 weeks after harvest	STRAWBERRIES	64 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	48 TO 64 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 VEGETABLES (Broccoli, Brussels Sprouts, Cauliflower, Collards, Cabbage, Kale and Mustard Greens)	48 TO 64 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 VEGETABLES (Garlic, Leeks, Onions, and Shallots)	48 TO 64 OUNCES PER ACRE 1st application: soil applied treatment at planting Repeat: soil or foliar applications every 14-21 days until harvest is complete
CUCURBIT VEGETABLES (Cantaloupe, Cucumbers, Gourds, Honeydew, Muskmelons, Squash, Pumpkins, and Watermelons)	32 TO 64 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 VEGETABLES (Eggplant, Fresh Tomatoes, Processing Tomatoes, and Peppers)	48 TO 64 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 VEGETABLES (Celery, Endive, Lettuce, Radicchio, Rhubarb, Spinach and Swiss Chard)	32 TO 64 OUNCES PER ACRE 1st application: foliar application at the 2-4 leaf stage Repeat: foliar applications every 14-21 days until harvest
LEGUMES FRESH, DRY AND PROCESSING (Beans, Garbanzos, Lentils, Peas and Soybeans)	48 TO 64 OUNCES PER ACRE 1st application: soil applied treatment at planting Repeat: soil or foliar applications every 14-21 days until harvest
POTATOES	48 TO 64 OUNCES PER ACRE 1st application: soil applied treatment at planting 2nd application: at tuber initiation 3rd application: two weeks after tuber initiation 4th application: through late tuber set
PEANUTS	48 TO 64 OUNCES PER ACRE 1st application: soil applied treatment at planting 2nd application: at early bloom Repeat: soil or foliar applications every 14-21 days until harvest
ROOT AND TUBER VEGETABLES (Beets, Carrots, Sweet Potatoes, etc.)	48 TO 64 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 GALLONS OF 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 GALLONS OF 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 GALLONS OF WATER In substrate culture systems, apply continuously with each fertigation cycle. In closed systems, reapply every 7-14 days.

SPECIFIC APPLICATION RATES: FIELD CROPS

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
ALFALFA	32 TO 64 OUNCES PER ACRE 1st application: soil or foliar application at planting or early season growth Repeat: soil or foliar applications after each cutting or every 3-4 weeks
CORN (Field Corn, Forage, Silage, Fresh, Sweet Corn, Popcorn, Seed Corn)	32 TO 64 OUNCES PER ACRE 1st application: soil treatment at planting 2nd application: soil or foliar application at V4-VT
COTTON	32 TO 64 OUNCES PER ACRE 1st application: foliar applied treatment at pinhead square 2nd application: foliar applied treatment two weeks after pinhead square
HOPS	32 TO 64 OUNCES PER ACRE 1st application: at start of training in the spring Repeat: every 2-4 weeks
RICE	32 TO 64 OUNCES PER ACRE 1st application: soil applied treatment at planting 2nd application: foliar applied treatment at tiller initiation 3rd application: foliar applied treatment at early panicle emergence
WHEAT	32 TO 64 OUNCES PER ACRE 1st application: soil applied treatment at planting 2nd application: soil or foliar at tiller initiation 3rd application: soil or foliar at early boot to early panicle emergence

SPECIFIC APPLICATION RATES: NUTS

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
ALMONDS	64 TO 128 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	64 TO 128 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	64 TO 128 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.)	64 TO 128 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

SPECIFIC APPLICATION RATES: OTHER CROPS

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
HERBS AND SPICES	32 TO 64 OUNCES PER ACRE 1st application: soil or transplant treatment at planting Repeat: applications every 14-21 days.
VEGETABLE SEED CROPS (All Varieties)	32 TO 64 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	64 TO 128 OUNCES PER ACRE Foliar or soil applications at planting. Repeat treatments every 14-30 days. Post-harvest applications can be made every 2-4 weeks after harvest. Apply 3-5 days prior to an anticipated plant stress.
CACAO	64 TO 128 OUNCES PER ACRE Foliar or soil applications at planting. Repeat treatments every 14-30 days. Post-harvest applications can be made every 2-4 weeks after harvest. Apply 3-5 days prior to an anticipated plant stress.
PAPAYA	64 TO 128 OUNCES PER ACRE Foliar or soil applications at planting. Repeat treatments every 14-30 days. Post-harvest applications can be made 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 of ACADIAN® or apply 0.5 to 1.0 ounces 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 not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands in the driveway, sidewalk or street back onto your lawn.
FIELD ORNAMENTALS	Make a 0.1% to 0.3% solution of ACADIAN®; 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.

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For your convenience, ACADIAN® Organic Liquid Seaweed Concentrate product information is available in Agrian Database (<http://agrian.com/home/>) as well as in Crop Data Management Systems database (<http://www.cdms.net/>).

