acadian®

100% LIQUID SEAWEED CONCENTRATE

0.1 | 0.0 | 5.0

Guaranteed Analysis

Total Nitrogen (N)	**0.1%**
0.1% Water Soluble Nitrogen	
Soluble Potash (K_2O)	**5.0%**

Derived from *Ascophyllum nodosum*

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

NET CONTENT: 2.5 U.S. Gal / 9.4 Liters
NET WEIGHT: 24.2 lb / 11.0 kg

Manufactured 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
Acadian Plant Health™ is a division of Acadian Seaplants Limited

PRODUCT OF CANADA

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PEEL / ENLEVER

acadian®

GENERAL INFORMATION:

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

DIRECTIONS FOR USE

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

Peel the label for crop-specific rates and timings.

COMPATIBILITY

ACADIAN® 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.

CAUTION

Keep out of reach of children.

SHAKE BEFORE USE™

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.

APPLICATION GUIDELINES

ACADIAN® is derived exclusively from marine plants harvested from the nutrient-rich waters of Eastern Canada. Consistent use of **ACADIAN®** supplements a well-balanced crop nutrition program. Use **ACADIAN®** to increase desirable yield, improve overall plant nutrition, improve root growth 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®** 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®** 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 contains a preservative but 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® fully dissolves in water and is suitable for use in liquid foliar, soil applied, 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®** 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 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®** to the soil. When making irrigation treatments dilute 1 part **ACADIAN®** in a minimum of 50 parts of finished solution and agitate thoroughly. Continuous agitation of the supply tank is recommended. **ACADIAN®** can be applied through drip, microjet, sprinkle, overhead, furrow, flood and other types of irrigation at the suggested rates. For micro sprinkler, solid set or drip irrigation, apply after the system is fully pressurized, inject finished solution for at least one hour and follow with clean water for at least two hours. Avoid heavy irrigations immediately following application.

Rooting/Transplant Solution: To encourage root growth of new transplants, treat roots with a solution of **ACADIAN®** at the rate of 0.1 – 0.7% solution prior to transplanting.

Late Season and Post-Harvest Applications: ACADIAN® is an excellent way to encourage root growth and prepare perennial crops for next season's early growth. Apply to the soil or foliar using above methods.

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

GENERAL CROP APPLICATION RATES

Woody Perennial Crops (Trees, Vines, Bushes, etc.): Apply 64 to 128 ounces of **ACADIAN®** per acre starting at regrowth in the spring. Repeat treatments every 7-30 days. At transplanting, a root 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®** 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	**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
BUSHBERRIES (Blueberry, Currant, Elderberry, Gooseberry, 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
CANEBERRIES (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
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 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.)	**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
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
GRAPES (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:** '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)	**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-6th applications:** 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

CROP	APPLICATION RATES AND GENERAL RECOMMENDATIONS
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
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
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
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.
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
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
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
STRAWBERRIES	**64 OUNCES PER ACRE** **Pre-plant:** 0.1 – 0.7% solution **Repeat:** soil applications every 14 days until harvest is complete
HYDROPONIC STRAWBERRIES	**4.5 TO 9.0 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: 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
CORN (Fresh, Sweet, and Pop)	**32 TO 64 OUNCES PER ACRE** **1st application:** soil treatment at planting **2nd application:** soil or foliar applications at the pretassel stage
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 **Repeat:** soil or foliar applications every 21-30 days until harvest
PEANUTS	**48 TO 64 OUNCES PER ACRE** **1st application:** soil applied treatment at planting **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 (Grain, Feed, Forage and Silage)	**32 TO 64 OUNCES PER ACRE** **1st application:** soil treatment at planting **2nd application:** soil or foliar applications at the pretassel stage. Applications can be made either foliar or to the soil. Apply 3-5 days prior to an anticipated plant stress.
SEED CORN	**32 TO 64 OUNCES PER ACRE** Apply 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.
COTTON	**32 TO 64 OUNCES PER ACRE** **1st application:** soil applied treatment at planting **Repeat:** soil or foliar applications every 14-21 days
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:** 30-40 days after seeding **2nd application:** at early panicle emergence Applications can be made either foliar or to the soil. Apply 3-5 days prior to an anticipated plant stress.
WHEAT	**32 TO 64 OUNCES PER ACRE** **1st application:** soil applied treatment at planting **Repeat:** soil or foliar treatments at the 6 and 12-18 inch growth stage

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 ounce per 1,000 square feet; apply to the root zone and/or foliage every 7-14 days.
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.

Contact your local dealer or advisor for specific use recommendations.

For your convenience, **ACADIAN®** product information is available in Agrian database (http://agrian.com/home/) as well as in Crop Data Management Systems database (http://www.cdms.net/).

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