

A high quality extract of *Ascophyllum nodosum* for field, greenhouse, and hydroponic crops

Specifications

Physical characteristics

Form	Liquid
Color	Black
Odor	Marine-like

Chemical characteristics

pH	7.4 – 8.2
Solubility	100% Water Soluble
Density	1.16 g/cc
Viscosity	<100 cP
Boiling point	100°C

Storage and Handling

- Store in cool dry place away from direct sunlight.
- Avoid spillage as product is very slippery and may create a hazard.
- This product contains no 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.

Compatibility

- 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 ALGA Liquid Seaweed with the water in the tank prior to adding the calcium product.
- If interaction of chemicals is unknown, a "jar" compatibility test is recommended.

Application Methods

- Compatible with sprayer, injector, irrigation, and hydroponic systems.
- *Foliar spray*: Fill half the spray tank with water, begin agitating and gradually add recommended amount of ALGA Liquid Seaweed with remainder of water and spray solution (see next section for crop-specific rates). 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. For best results apply during the cool part of the day or when temperatures are below 30°C. Do not spray just before or after rainfall or sprinkler irrigation. Use a surfactant for maximum dispersal and leaf adherence.
- *Soil drench/injection*: treatments can be made by mixing with water or other liquids and applying in-furrow, side-dress, or as a surface drench. Dilute ALGA at least 1:5 with other liquids.
- *Irrigation*: ALGA is compatible with all types of irrigation. 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.
- *Hydroponics*: Use a dilution ratio of 3.5 – 7 mL/100 L of total solution, and maintain concentration every time new water is added.
- *Rooting/Transplant Solution*: To encourage root growth of new transplants, treat roots with a solution of ALGA Liquid Seaweed at the rate of 4 – 10 mL/L of water prior to transplanting.
- *Post-Harvest Application*: Apply to perennial crops after harvest to strengthen and prepare for next season's growth. Apply to the soil or foliar using any of the methods described.

Application Rates

- The following tables provide general and crop-specific application rates.

Application Rates

Fruit Crops	App rate	Timing
General guideline	2.5-5 L/ha	1st application: Start of regrowth 2nd application: 2 weeks pre-bloom 3rd application: Petal fall
Avocado	2.5-9.5 L/ha	1st application: Start of regrowth 2nd application: 2 weeks pre-bloom 3rd application: 2 weeks after petal-fall 4th application: Before summer fruit drop
Bush berries and cranberries	2.5-5 L/ha	1st application: 4 weeks pre-bloom 2nd application: 2 weeks pre-bloom 3rd application: Petal fall
Cherries	2.5-10 L/ha	1st application: Pink or white bud 2nd application: Petal fall 3rd application: Exposed young fruit 4th application: Straw colour
Figs	2.5-10 L/ha	1st application: Start of regrowth Maintenance: Every 2-4 weeks until harvest
Grapes (wine and table)	2.5-10 L/ha	1st application: 2.5-10 cm shoot growth 2nd application: 25-30 cm shoot growth 3rd application: 5 days pre-bloom 4th application: "BB" sized berries 5th application: Variason
Olives	2.5-10 L/ha	1st application: Late dormancy 2nd application: 2 weeks pre-bloom Maintenance: Every 2-4 weeks until harvest
Pome fruits (apple, pears, quince)	2.5-10 L/ha	1st application: Pre-pink 2nd application: Pink bud 3rd application: 7-10 days post-petal fall 4th application: 1.5-2 cm fruit
Stone fruits (peaches, nectarines, plums, etc.)	2.5-10 L/ha	1st application: Pink or white bud 2nd application: Petal fall 3rd application: Jacket split
Strawberries	5 L/ha	Maintenance: Every 2-4 weeks until harvest

Vegetable Crops	App rate	Timing
General guidelines	3.5-5 L/ha	1st application: Planting / emergence Maintenance: Every 2-3 weeks until harvest is complete
Corn (Fresh, Sweet, pop)	2.5-5 L/ha	1st application: Planting 2nd application: 30-60 cm height
Leafy vegetables	3.5-5 L/ha	1st application: 2-4 leaf stage Maintenance: Every 2-3 weeks until harvest is complete
Potatoes	3.5-5 L/ha	1st application: Planting 2nd application: Tuber initiation 3rd application: Bulking
Vegetable seed crops	2.5-5 L/ha	1st application: Planting 2nd application: Pre-bloom 3rd application: 7-10 days before dry-down

Field Crops	App rate	Timing
General guidelines	2.5-5 L/ha	1st application: Planting Maintenance: Every 3-4 weeks until harvest
Cereals	2.5-5 L/ha	1st application: Planting 2nd application: Post-tillering 3rd application: Jointing
Corn	2.5-5 L/ha	1st application: Planting 2nd application: V6-v9
Forage	2.5-5 L/ha	1st application: Start of regrowth Maintenance: After each graze or hay cut
Hops	2.5-5 L/ha	1st application: Start of regrowth Maintenance: Every 2-3 weeks until harvest
Rice	2.5-5 L/ha	1st application: 30-40 days after seeding 2nd application: Early panicle emergence

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Nut Crops	App rate	Timing
General guidelines	2.5-10 L/ha	1st application: Early bud break 2nd application: Bloom 3rd application: Fully leafed out
Almonds	2.5-10 L/ha	1st application: Pink bud 2nd application: Petal fall 3rd application: Before summer heat stress
Hazelnuts	2.5-10 L/ha	1st application: Ovule growth initiation 2nd application: First leaf expansion
Tree nuts	2.5-10 L/ha	1st application: 1% bloom 2nd application: 30% bloom 3rd application: 2 weeks after second application
Hydroponic Crops	App rate	Instructions
General guidelines	3.5 – 7 mL/100 L	Maintenance: Maintain concentration every time new water is added to the system.

For more information, please contact:

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