

# Guarantee®

## ASCOPHYLLUM NODOSUM

Guarantee® is a versatile liquefied seaweed (*Ascophyllum nodosum*). It can be used for agriculture, hydroponics, landscape, gardens and other growing applications.

### Application Guidelines

Suitable for use in any foliar, soil applied, or irrigation water application. Can be applied to seed, seed pieces, bulbs, tubers and cuttings.

Shake or agitate before use. Apply in the early morning or late afternoon for best results. Allow foliar product to dry on plant prior to irrigation. Use a surfactant for superior coverage.

### Application Rates

**General recommended application rates:** 1-4 pints per acre (1.25-4.75 liters per hectare). **Please see back panel for specific crop applications.**

### Standard Mixture for Smaller Areas:

Use 2 oz. Guarantee® per gallon of water (60 ml per 3.78 liters of water).

### Seed Treatment:

To coat seeds prior to planting, use 2 oz. per gallon of water. Apply directly to seeds, peat pot, planting mixture or seed bed.

# 0-0-1

### GUARANTEED ANALYSIS

Soluble Potash (K<sub>2</sub>O) . . . . . 1.00%

*Derived from: Kelp Extract (Ascophyllum nodosum), Potassium Hydroxide*

### Mixing Guidelines

Use a minimum of 3.8 liters of water carrier per 93 m<sup>2</sup> (1 U.S. gallon per 1,000 sq. ft.). Fill mix tank with half of required spray water and turn on agitation. Measure product into tank, add remaining water and other soluble materials.

### Compatibility

This product is compatible with most fertilizers and other spray materials. Conduct a jar test as needed.

### Storage and Use Precautions

Store in original containers at temperatures above freezing. Mix with other materials only at time of application and in exact amounts required. Do not return previously mixed product to its original container.

**Keep out of reach of children.** May be harmful if swallowed. Avoid contact with eyes, skin, and clothing. If irritation occurs, seek medical attention.

This product is not intended to be a complete fertilizer or nutrient source and should be used in conjunction with a regular fertilizer program.

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

**CONDITIONS OF SALE...**The Manufacturer warrants only that product conforms to label description. Buyer and user agree to accept all liability associated with handling, use, and disposal of this product.

**NOT FOR USE IN ORGANIC CROP AND ORGANIC FOOD PRODUCTION.**

Florida: F1762



## Ocean Organics®

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888-312-0106 • [www.oceanorganics.com](http://www.oceanorganics.com)

Corporate Office: Ann Arbor, MI

Net Contents : ■ 9.5 L (2.5 Gal)  
Net Weight : 9.6 Kg (21.1 Lb)  
Bulk Density: 8.42 lbs/gal at 68° F

■ 56.8 L (15 Gal)  
57.3 Kg (126.4 Lb)

■ 208.2 L (55 Gal)  
210.1 Kg (463.3 Lb)

■ 1041.0 L (275 Gal)  
1050.7 Kg (2316.4 Lb)

# Application Rates and Timing

## Recommended application rates are 1 to 4 pints [1/2 to 2 quarts] per acre. See below for specific crop applications

### Alfalfa

1. Apply at planting, 1-2 Pints/Acre
2. Repeat after each cutting or at 2 to 4 week intervals, 1-2 Pints/Acre

### Asparagus

1. New crop at fern growth in spring, 1-2 Pints/Acre
2. Mature crop at fern growth, 1-2 Pints/Acre
3. After cutting, 1-2 Pints/Acre

### Blueberries

1. At pre-bloom, 2-4 Pints/Acre
2. At flowering, 2-4 Pints/Acre
3. At petal fall, 2-4 Pints/Acre
4. 30 days after last application, 2-4 Pints/Acre
5. 30 days after last application or 2 weeks prior to harvest, 2-4 Pints/Acre
6. Optional: 2-4 weeks after harvest for over wintering and increased fertile buds, 2-4 Pints/Acre

### Cane Berries

1. At pre-bloom, approximately 2 weeks prior to bloom, 2-4 Pints/Acre
2. After petal fall, 2-4 Pints/Acre
3. 4 weeks after last application, 2-4 Pints/Acre
4. 4 weeks after last application, 2-4 Pints/Acre
5. 2 weeks before harvest, 2-4 Pints/Acre

### Brassicas (Cauliflower, Broccoli, Cabbage, Kale and Brussels Sprouts)

1. At 4 to 6 leaf stage, 1-2 Pints/Acre
2. 2 weeks after 1st application, 1-2 Pints/Acre
3. At Head Initiation, 1-2 Pints/Acre

### Bulb Vegetables

#### (Onion, Garlic, Leeks, and Shallots)

1. At Planting, 1-2 Pints/Acre
2. Repeat every 2-4 weeks until harvest is complete, 1-2 Pints/Acre

### Citrus

1. Pre-bloom at Pinhead, 2 Pints/Acre
2. Post bloom at 2/3 petal fall, 2 Pints/Acre

3. At summer oil application, 2 Pints/Acre
4. Optional: with fall miticide, 2 Pints/Acre
5. For fresh market varieties: 6 to 8 weeks prior to harvest, 2 Pints/Acre
6. For non-bearing trees: apply at the onset of every flush (approx every 30 days), 2 Pints/Acre

### Corn

1. At Planting, 1-2 Pints/Acre
2. 14" to pretassel, 1-2 Pints/Acre
3. 36", 1-2 Pints/Acre

### Cotton

1. At planting, 1-2 Pints/Acre
2. Repeat every 2-3 weeks, 1-2 Pints/Acre

### Cucurbits (Watermelon, Cantaloupe, Honeydew, Cucumber, Squash, Muskmelon, and Pumpkins)

1. At 3 to 4 leaf stage, 1-2 Pints/Acre
2. At pre-bloom, 1-2 Pints/Acre
3. Every 14 days through harvest, 1-2 Pints/Acre

### Grains (Wheat, Triticale)

1. At planting, 1-2 Pints/Acre
2. Follow with applications at 6", 12" and 18" growth stage, 1-2 Pints/Acre

### Grapes (Wine)

1. At new growth, 1-2 Pints/Acre
2. At pre-bloom to ¼ bloom, 1-2 Pints/Acre
3. 10 days to 2 weeks or at fruit set, 1-2 Pints/Acre
4. 2-3 weeks later, 1-2 Pints/Acre

### Grapes (Table, Raisin, Juice)

1. At new growth, 1-4 inch shoot, 1-2 Pints/Acre
2. Rachis Stretch application at 16" to 24" shoot growth, 2-4 Pints/Acre
3. Sizing application - include with sizing sprays, 2-4 Pints/Acre
4. Color: 1-2 Pints/Acre for 4-5 weeks starting at 20% colorbreak
5. Optional - Continue with weekly applications during the summer months, 1 Pint/Acre

### Hops

1. Apply at start of training in the spring, 1-2 Pints/Acre
2. Follow with applications every 2-4 weeks until harvest, 1-2 Pints/Acre

### Hydroponic Vegetables

1. 0.05 to 1.0 ounces per 100 gallons of water
- In soilless systems, apply continuously with each fertigation cycle. In closed systems, reapply every 7-14 days.

### Kiwi

1. 1st application: at start of growth in the spring, 2-4 Pints/Acre
2. 2nd application: 1-2 weeks pre-bloom
3. 3rd application: petal fall
4. Repeat every 3-4 weeks during summer months
5. Post-harvest application: 2-3 weeks after harvest
6. Alternative application: Micro irrigation: 2-4 Qts/Acre each irrigation beginning with first active shoot growth through harvest

### Leafy Vegetables (Celery, Lettuce, Spinach, Swiss Chard, Endive, Raddicchio, etc)

1. At 3 to 5 leaf stage, 1-2 Pints/Acre
2. Every 2 weeks until harvest, 1-2 Pints/Acre

### Legumes - Dry and Succulent (Beans, Garbanzos, Lentils, Peas and Soybeans)

1. In furrow at planting, 2 Pints/Acre
2. At pre-bloom, 3 to 4 leaf stage, 2 Pints/Acre
3. Repeat every 2 to 4 weeks until harvest

### Olives

- Standard spacing - 4 to 8 pts/Acre:
1. 1st application: late winter (foliar)
  2. 2nd application: 1- 2 weeks pre-bloom (foliar)
  3. Repeat every 2-3 weeks through to harvest
  4. Post-harvest application: 2-3 weeks after harvest

5. Alternative application via micro irrigation: 2-4 Qts per acre every 2-4 weeks or each irrigation from first irrigation to harvest

### Close spacing, hedgerow: 2-4 Pints/Acre

1. 1st application: late winter (foliar)
2. 2nd application: 1-2 weeks pre-bloom (foliar)
3. Repeat every 3-4 weeks through to harvest
4. Post-harvest application: 2-4 weeks after harvest
5. Alternative application via micro irrigation: 2-4 Qts per acre every 2-4 weeks or each irrigation from first irrigation to harvest

### Orchard Fruit

1. At pink buds, 1-2 Pints/Acre
2. At petal fall, 1-2 Pints/Acre
3. 2-3 weeks after 2nd spraying, 1-2 Pints/Acre
4. Every 2 weeks prior to harvest, 1-2 Pints/Acre
5. On late Apple Varieties, i.e. Jona Gold, Gala, late season applications 1 month and 2 weeks prior to harvest to improve red fruit color, 3 Pints/Acre

### Pasture (Forage Grasses)

1. At early growth stage, 1-2 Pints/Acre
2. 1-2 weeks after mowing/grazing, 1-2 Pints/Acre

### Peanuts

1. At pegging, 1-2 Pints/Acre
2. 2 weeks after 1st application, 1-2 Pints/Acre
3. 1-2 weeks after 2nd application, 1-2 Pints/Acre
4. 1-3 weeks after 3rd application, 1-2 Pints/Acre (May be optional)

### Peppers

1. At 6" stage, 1-2 Pints/Acre
2. At pre-bloom, 1-2 Pints/Acre
3. At initial fruiting, 1-2 Pints/Acre
4. 2-3 days after picking, 1-2 Pints/Acre

### Potatoes

1. At tuber set, 1-2 Pints/Acre
2. 10-14 days after 1st application, 1-2 Pints/Acre
3. At early bloom, 1 to 2 Pints/Acre

### Rice

1. Apply 1-2 Pints/Acre 25-30 days after seeding at tiller initiation
2. Follow with 1-2 Pints/Acre at panicle emergence

### Root and Tuber Vegetables (Beets, Carrots, Sweet Potatoes)

1. Apply at planting, 1-2 Pints/Acre
2. Repeat every 2-4 weeks until harvest

### Soybeans

1. At preplant, 1-2 Pints/Acre
2. At 3-4 leaf stage, 1-2 Pints/Acre
3. 2-3 weeks later, 1-2 Pints/Acre

### Strawberries

1. 10 days to 2 weeks after emergence, 2-4 Pints/Acre
2. At pre-bloom, 2-4 Pints/Acre
3. At petal fall or fruit set, 2-4 Pints/Acre
4. Every 2-3 weeks through harvest, 2-4 Pints/Acre

### Sunflowers

1. Apply 1-2 pints at planting
2. Follow with applications every 2-4 weeks, 1-2 Pints/Acre

### Tomatoes (Fresh and Processing)

1. At Transplant, 1-2 Pints/Acre
2. Repeat every 2-4 weeks until harvest is complete (4 to 8 oz per fertigation)

### Tree Nuts (Pecans, Walnuts, Almonds, Pistachios, etc)

1. At pre-bloom (2 weeks prior to bloom), 2-4 Pints/Acre
2. After petal fall, 2-4 Pints/Acre
3. Every 2-4 weeks during the summer months, 2-4 Pints/Acre
4. Optional: post harvest application 2-4 weeks after harvest, 2-4 Pints/Acre
5. Apply at planting of new tree stock, 1-2 Pints/Acre

### Woody Perennials

1. Apply 2-4 Pints/Acre in the spring at regrowth
2. Follow with applications every 2-4 weeks