MAXWELL

ORGANIC GROWTH ENHANCER

# *Ascophyllum nodosum,* natures complete plant growth enhancer

Fresh Cold-press Extraction...
...provides Maximum Retention of Mannitol, Vitamin B12 and Iodine.

**Sourced from 100% cold-pressed *Ascophyllum nodosum* (knotted wrack seaweed) Maxwell SeaAction Seaweed is an organic plant biostimulant specially formulated to retain all of the natural benefits of the raw ingredient.**

**SeaAction Seaweed will actively stimulate effective plant rooting, defence and tillering functions.**

## Key Information

| | | | |
|---|---|---|---|
| Seaweed Species | *Ascophyllum nodosum* | pH | 4.5-6.0 |
| Appearance | Light green to light brown | Specific Gravity | 1.05 |
| Total Solids | c. 5% | Solubility | Complete |
| Shelf Life | 24 months | | |

## Seaweed *Will*

- Up-regulate plant growth, development, nutrition, and tolerance to abiotic stresses.
- Stimulate plant defence mechanisms due to the bioactive carbohydrates found only in algae. These are active chelating agents which also provide micro-colloid films on leaf surfaces. These films feed beneficial microbes which in turn assist plant defence and growth.
- Stimulate plant defence responses against biotic stresses such as; bacteria, viruses, fungi, and parasites.
- Stimulate plant defence responses against abiotic stresses such as; heat, drought, cold, drying winds, water logging.
- Effectively chelate and complex micronutrients; boron (mannitol), Cobalt (vitamin B12).
- Supply a balanced source of amino acids which will be taken up by plants and used as 'metabolic short-cuts' that stimulate growth during establishment and during spring.

## SeaAction *Why*

- **Our exclusive** cold-press manufacturing process extracts the maximum quantity of bioactive compounds such as auxin and vitamin B12, without any degradation that results from heat or chemical extraction.
- Contains high levels of plant essential compounds such as iodine.
- Produced without creating additional waste by-products.
- Includes food grade quality preservatives.
- **Zero added NPK, facilitating maximum control of nutritional inputs.**

## SeaAction *How*

SeaAction Seaweed can be applied to turf grass and plants every 2-4 weeks throughout the year and particularly during the Spring and Summer.

## Application Period

| J | F | M | A | M | J | J | A | S | O | N | D |
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## Application Rates

| Application Type | Applicator | Application Rate | Water Volume (L/ha) | Pack Coverage ($m^2$) |
|---|---|---|---|---|
| Remedial Application | Boom Sprayer | 20 L/ha | 300-400 | 5000-2500 |
| | Knapsack | 2 ml/$m^2$ | | |
| Maintenance Application | Boom Sprayer | 10 L/ha | | |
| | Knapsack | 1 ml/$m^2$ | | |

- Best applied as a foliar treatment.
- Apply evenly using a suitable calibrated sprayer, avoid overlapping or missing areas.
- Half fill the sprayer with clean water. Add concentrate as required and mix thoroughly whilst adding remaining water.

### Nutritional composition

Where a range is provided, this represents data from multiple analyses. Where no figure is given, the components presence has been confirmed only. Analysis is based on the dry weight of the starting fresh seaweed.

### Elemental content

Phosphorus (P) 0.5-75 g/kg, Magnesium (Mg) 7.4-7.6 g/kg, Calcium (Ca) 12 g/kg, Nitrogen (N) 1.3%, Potassium (K) 22-23 mg/kg, Sodium (Na) 27-32 g/kg, Sulfur (S) 2.2%, Manganese (Mn) 37-61 mg/kg, Cobalt (Co) 0.47 mg/kg, Selenium (Sn) 0.01-0.11 mg/kg, Copper (Cu) 1-3 mg/kg, Arsenic (As) 27-33 mg/kg, Mercury (Hg) 0.01 mg/kg, Lead (Pb) 1.1 mg/kg, Cadmium (Cd) 0.36 mg/kg, Aluminium (Al) 218 mg/kg, Boron (B) 78-81 mg/kg, Barium (Ba) 11 mg/kg, Chromium (Cr) 1.4-4.3 mg/kg, Iodine (I) 300-525 mg/kg, Iron (Fe) 280-380 mg/kg, Zinc (Zn) 25-45 mg/kg

### Vitamin content

Thiamine (B1) 2.29 mg/kg, Folic acid (B9) <0.5 mg/kg, Niacin (B3), Riboflavin (B2) 0.8-3.22 mg/kg, Pantthothenic acid (B5) 15.3 mg/kg, Pyridoxine (B6) 0.5-58.3 mg/kg, Cobalamin (B12), Vitamin A, Vitamin C 89-125 mg/kg, Vitamin D, Vitamin E, Vitamin K, Vitamin H (Biotin) 0.42 mg/kg

### Other

Carbohydrates 8%

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Sustainably sourced from the British Isles

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This product is not classified as hazardous for supply or for transport. Please refer to the associated Maxwell Amenity safety data sheet for information and guidance on safe transport, handling, use and disposal of this product.

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