

Seapower

organic No 1

Liquid seaweed for the commercial grower

This natural organic extract is the product of a unique process designed to specifically extract the powerful growth promoting compounds from actively growing Orkney seaweed, enhanced with natural seaweed carbohydrates. This golden liquid promotes enhanced

- root development and growth
- uptake of nutrients and other applied products by roots and leaves
- tillering of turf
- chlorophyll production, thence greening
- rich colour of flowers and fruit
- natural defence against disease and pests
- resistance to frost and drought
- resistance of turf to wear and stress
- natural soil microbial activity

The additional carbohydrates also stimulate the development of natural soil microbial activity.

It must be remembered that this is a growth promoting product, NOT a fertiliser. It should be part of a wider integrated crop management programme.

What is in the extract ?

The key components are growth promoters, including:

- cytokinins
- betaines,

present in natural structures and concentrations, contributing vital properties to this unique extract.

Although the process focuses on growth promoter extraction, a range of other beneficial substances are extracted, including organic constituents such as alginic acid, laminaran and mannitol; together with trace elements, amino acids and vitamins.

However, the process deliberately removes high levels of storage carbon which can interfere with phytohormone action as well as depleting soil of nutrients and encouraging pest and disease development.

EXAMPLES OF GROWTH PROMOTER ACTIONS

With tomatoes, regular use has shown many benefits, including:

- greatly improved root growth, resulting in better utilisation of plant nutrients and fewer problems with nutrient imbalances
- healthier and darker green foliage
- improved calyx retention, especially in hot weather
- increased resistance to wilting in changeable weather
- rapid solving of mineral deficiency symptoms on leaves with foliar spray

With nursery stock many benefits follow application, including:

- quicker and better rooting of cuttings followed by growth of bigger root systems; more branching on cuttings
- leaf retention improved on slow rooting subjects

- plants look greener and healthier, improved chlorophyll production
- flower colours richer and retained, fading slowed down
- indications of better resistance to frost in container plants

Regular use for house plants and interior landscapes has shown many benefits, including:

- healthier plants with richer green foliage from improved chlorophyll production
- more branching and thence better habit
- better use of nutrients especially in non-draining containers
- flower colours richer and retained longer, fading slowed down
- better root system and plants keep longer even when kept in adverse conditions

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'Seapower' is the registered trade name of Orkney Seaweed Company Ltd

SimplySeaweed

Horticultural Application

Application can be by

- irrigation/hydroponic feed, depending on feed system typically at 1 in 100 - 200 dilution, applying every 7-10 days;
- foliar spray, as a plant conditioner, applied at 1 in 50 dilution*, when needed;
- watering of plants/soil at 1 in 50 -100 dilution, as part of general feeding and/or when response (e.g. greening) required.

*** 20ml Seapower in 1 litre; 90ml Seapower in 4.5 litres (1 gallon)**

Agricultural Application

General

The key target, for all crops, is to deliver a dilution of **1:50** of the extract to the active growing meristems (especially roots) / active young leaves of the plant.

In most cases this requires 10 litres extract per hectare, delivered in 450 - 500 litres spray. However, good results have been obtained by some growers with lower volume spraying, eg down to 5 litres extract in 200-250 litres spray.

For treatment of small areas of crop dilute 1 litre in 40 - 50 litres of water and apply over an area up to 500 square metres.

Apply as a coarse or medium spray by handheld, pedestrian controlled or vehicle mounted sprayer.

Cereals

Spring barley, wheat and oats. Minimum recommendation is a single treatment at 1:50 dilution when the first node is detectable, ideally at 10.0 litres extract in 450 litres spray. At this volume there will be greater effect on tillering as well as the primary effect on grain initiation/formation.

A further application of 5 litres extract per hectare in summer (early green ear stage) will encourage grain yield/quality; although many fully organic growers achieve optimum results using 10.0 litres extract in 450 litres spray, in all applications.

Grass

Grazing: 5 litres in 250 - 450 litres spray, just following first growth flush and repeated at 3 week intervals. 10 litres extract per hectare in 450 litres spray is best.

Silage: 10 litres per hectare in 450 litres spray, as spring growth commences, with 5 litres per hectare applied 2-3 weeks before cut.

Potato

10 litres per hectare in 450 litres spray, two weeks after emergence, with follow-up at 5 litres per hectare at over 30% groundcover stage, especially for main crops). Can be applied with blight treatment if appropriate (consult our technical support for guidance).

Roots/Other Vegetables

Application at 10.0 litres per hectare in 450 litres spray, at following timings:

- | | |
|----------|--|
| Carrots | 4 - 6 th leaves |
| Red Beet | 5 - 6 th true leaves |
| Cabbage | 4 - 6 th true leaves, repeat later at 5 litres/hectare. |

Compatibility

This seaweed extract is compatible with most horticultural chemicals and fertilisers. If in any doubt try a simple jar mixing test and/or consult our technical support.