

Grosafe®



ORGANIC

BiOPOWER® SEAWEED FLAKE

Concentrated Seaweed Flake - just add water

The benefits of BioPower® Seaweed Flake:

- Stimulates natural root growth and overall plant vigour
- Increases resistance to stresses
- Increases bloom set, size of flowers and fruits
- Increases and stabilises chlorophyll in plants, resulting in darker leaf colour
- Sustainably harvested
- Extracted from the worlds premium marine plant, Ascophyllum nodosum
- Lengthens production season and increases storage life of fruit and vegetables
- Nil Withholding period

BioPower® Seaweed Flake applications:

- Foliar spraying
- Root dipping
- Seed soaking
- Soil application

This superior BioGro Certified seaweed flake for use on:

- Lawns
- Fruit trees and vines
- Vegetables
- Ornamentals and roses



SUPERIOR BIOWPOWER® SEAWEED FLAKE

Elemental Breakdown - Seaweed Products

Element	Alga 600 % w/w	Orca Plus % w/v	AgriSea % w/v	Seasol % w/v	BioPower® Flake % w/w	BioPower® Liquid g/L w/v
N	0.5 - 0.8%	1.0%	0.00004%	0.143%	1.0 - 2.6%	>4.5%
P	N/A	2.0%	0.0035%	0.187%	1.0 - 5.0%	>2.0%
K	17 -19%	4.2%	0.0098%	3.08%	>18.0%	>4.8%
Mg	0.04%	0.012%	0.007%	0.044%	>0.01%	>0.01%
Ca	0.6% - 1.8%	0.18%	0.008%	0.10%	>0.1%	>0.1%
Fe	0.15% - 0.3%	0.045%	0.0006%	0.03%	>0.2%	>0.1%
Cu	0.00070%	0.0002%	0.0026%	0.00064%	>0.01%	>0.01%
S	1% - 1.5%	0.3%	0.0175%	0.22%	>0.1%	>0.1%
I	0.035% - 0.065%	0.011%	0.0108%	N/A	>0.01%	>0.01%

sourced from independent data

Ascophyllum nodosum comparison with Bull Kelp

SPECIES	IAA (ng/g) Indole acetic acid (Auxin)	GA3 (ng/g) Gibberellin	ZT (ng/g) Zeatin (cytokinin)
Ascophyllum nodosum	594.22	46.70	87.94
Dry Small Kelp	147.94	13.54	19.77
Dry Great Kelp	30.90	21.54	24.97
Fresh Sargasso	15.23	40.00	87.94
Fresh Small Kelp	20.53	33.96	93.95

GENERAL INSTRUCTIONS FOR USE

FEATURES: An easy to use flake that can be added to a watering can and watered directly onto plants or added to a knapsack when applying fertilisers, insecticides, fungicides or herbicides.

INGREDIENTS: A pure form of Ascophyllum nodosum marine plant extract flake.

DIRECTIONS FOR USE: Fill sprayer with the required amount of water and add 10g of BioPower® per 5 litres of water (2g per litre).

ITEM	BIOWPOWER® Water Soluble Seaweed Extract Flake
Appearance	Brown-blackish color
Smell	Sea
Solubility	100%
Organic Matter	45 to 55%
Ashes	45 to 55%
Nitrogen	1.3 to 2.6 %
Phosphorus	2.3 to 4.6 %
Potassium	12 to 18%
Cytokinin	600 to 1000 ppm
Auxins	170 ppm
Gibberellins	190 ppm
Sulfur	2.20%
Magnesium	270 to 525 ppm
Calcium	500 to 1000 ppm
Iron	120 to 180 ppm
Boron	80 to 160 ppm
Copper	2 to 3 ppm
Molybdenum	18 ppm
Manganese	2 to 4 ppm
Carbohydrates	---
Alginate Acid	---
Mannitol	8%
Fuoidan	14 to 16%
Amino acids	grams per 100 grams of protein
Glutamic	23.1
Aspartic	16.3
Arginine	0.7
Alanine	11.4
Glycine	9.5
Leucine	14.5
Lysine	4
Valine	10.4
Serine	0.4
Phenylalanine	8.5
Isoleucine	5.8
Histidine	1.3
Proline	13.3
Trenine	3.8
Tyrosine	5.4
Methionine	4.2
Cystine	traces
Packing	200ml, 500ml

CROP	TIME OF APPLICATION
Pipfruit and Stonefruit	Every 3-4 weeks from budburst until harvest.
Citrus	Petal fall and at 3-4 weekly intervals until harvest.
Grapes and Berryfruit	Bud burst to harvest at 14 day intervals.
Vegetables	During plant growth to harvest at 14 day intervals.
Roses and Ornamentals	From bud burst through the growing season at 14 day intervals.
Lawn/Turf	Apply during spring, summer and autumn at 30 day intervals.
Seed soaking	Soak seeds to be planted for 5-8 hours in a dilution of 1g/litre.
Pre planting root dipping	Can reduce mortality rates by dipping planter bags, plant containers or bare rooted plants for five minutes in a dilution of 5g/10litres of water, prior to planting.

Withholding period: Nil



Grosafe garden

20 Jean Batten Drive, Mt Maunganui, 3116 | 0800 220 002 | orders@grosafe.co.nz | www.grosafe.co.nz

BioPower® is a registered trademark of Grosafe Chemicals.