

Nitrosol Seaweed

What is Nitrosol Seaweed Flakes

Nitrosol Seaweed Flakes is a 100% water soluble seaweed extract of *Ascophyllum nodosum* through an enzyme hydrolysis and low temperature dehydration method to preserve all the nutrients. The nutrients include major and minor nutrients, carbohydrates, amino acids and natural growth promotants such as cytokinins, auxins, gibberellins, and betaines. The nutrients are naturally chelated into forms readily absorbed by plants. Nitrosol Seaweed Flakes is certified by BioGro New Zealand (5575) and is approved for use by certified organic producers.

Nitrosol Seaweed Flakes are a biostimulant and when used as a foliar spray alongside a balanced nutrition programme, such as Nitrosol fertilisers, will stimulate cell division, cell elongation and maximise the production of quality fruit, vegetables, pasture and ornamental crops.

Nitrosol Seaweed Flakes can also be used as a soil drench to stimulate root growth and beneficial bacteria.

Why use Nitrosol Seaweed Flakes

Nitrosol Seaweed Flakes contain many naturally occurring growth regulators, namely cytokinins, auxins, gibberellins, betaines and indoles plus many others.

Nitrosol Seaweed Flakes contain more than 60 different types of nutrients.

Nitrosol Seaweed Flakes is a biostimulant.

Nitrosol Seaweed Flakes stimulates beneficial soil bacteria that thrive on the micro elements and carbohydrates provided. These microbes begin the process of creating a living soil and the cycling of nutrients from an organic form to a plant available form.

Natural plant growth regulators

Plant growth regulators are hormones that influence certain activities in plants and are needed in only small quantities to be effective.

- Cytokinins promote growth by speeding up the cell division process. They are found in the roots and shoots growing new cells. Cytokinins also delay leaf senescence
- Auxins promote cell elongation and expansion. Auxins accumulate at growing tips and are responsible for phototropism
- Gibberellins also promote cell elongation but work between nodes and in stems. They result in an increase in inter-nodal length. Gibberellins also aid fruit and flower maturation.
- Betaines help with osmotic regulation and help plants to withstand drought and other stresses

Nitrosol®

Biological Fertilisers

about Nitrosol

Nitrosol is a one-step colloidal liquid suspension organic based fertiliser containing:

- A balanced NPK 11.5.7. to feed through both foliage and roots.
- A balanced formulation of trace elements and minerals to address deficiencies and imbalances.
- Organic matter including protein, amino acids, albumin, globulin and cholesterol to feed and nurture the biological activity in the soil.
- A naturally occurring growth promotant stimulates plants to take up and use all the available nutrients, trace elements and minerals.

Nitrosol Original

Made from ovine (sheep) blood and bone, Nitrosol Original has been widely used since 1971. It has gained an enviable reputation for producing strong, healthy, disease resistance plants as well as top quality flowers, fruit and vegetables.

NPK 11.5.7

Nitrosol Oceanic

Nitrosol Oceanic is made from organic matter sourced from deep-sea fishing operations. It is ideal for use on pastoral grazing land with no stock withholding period, and in horticulture. Nitrosol Oceanic has the same typical analysis and will produce the similar results to Nitrosol Original.

NPK 11.5.7

Nitrosol Organic

Nitrosol Organic has been certified by BioGro Ltd for permitted use in agriculture and horticulture by certified organic growers. With a higher organic content, it will help to produce healthy biologically active soil as well as highly nutritious and flavoursome fruit, vegetables and healthy nutritious feed for grazing animals.

NPK 6.1.3

Telephone 0800 80 30 60 for more information

CONTINUED OVERLEAF 

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Foliar Application

Always use a dry measuring container. To convert from weight to volume multiply by two (1 kg = 2L).

Add the required amount (1–2 kg/ha to a bucket and add an equal quantity of water (1:1) to form a slurry. Half fill spray tank and begin agitation. Add any herbicide, fungicide, insecticide or fertiliser as per the recommendations and add the seaweed solution with remaining water. The spray solution should be applied as a fine mist to foliage until point of drip, usually 1000L/ha. For best results apply in the early morning or evening when temperatures are below 20°C.

Apply regularly throughout growing season.

Do not spray just before or after rain or overhead irrigation.

Soil Application

Nitrosol Seaweed Flakes can be applied to soil or as a foliar spray, flood irrigation, overhead irrigation or through fertigation systems. It can be used on its own or added to other treatments such as liquid fertilisers or pesticides. For soil broadcast dilute 1 kg in 200L of water and apply to the soil at rate of 1 kg/ha. For fertigation dilute one part Nitrosol Seaweed flakes in 5 parts water and add to supply tank to dose at 1 – 2kg/ha.

Seed treatment: Soak seeds to be planted in a solution of 1 g/litre of water (1:1000).

Root treatment: Soak bare rooted plants or plants in containers in a solution of 5g/10 litres of water (1:2000) prior to planting. After planting bare rooted plants root drench with the same mix.

Typical product analysis

Nitrogen	0.5 to 3%	Alginates	Min. 16%
Phosphorous (P205)	1.0 to 5%	Boron	Max. 5000ppm
Potassium Oxide (K2O)	Min. 18%	Betaine	100ppm
Sulphur	Max. 4%	Cytokinin	100ppm
Calcium	0.2%	Auxins	100ppm
Magnesium	0.1%	Copper	Max. 150ppm
Organic Matter	45 to 55%	Zinc	Max. 400ppm

Compatibility

Nitrosol Seaweed Flakes is compatible with most insecticides, herbicides, fungicides and foliar fertilisers. Some pH adjustment may be required with acidic mixtures. If unsure of compatibility, we suggest a jar test is done first. Thoroughly mix a small quantity of water, other products and Seaweed Flakes in the same proportions they will be used in a small glass jar. Allow to stand for thirty minutes and check for any reaction.

did you know?

Nitrosol has a specific gravity of about 1.26 so one litre weighs 1.26 kgs.

Because Nitrosol is a colloidal suspension containing organic material, it will not leach or wash away even under heavy rain or irrigation.

Nitrosol feeds via both the foliage and roots meaning that it can be applied directly to plants and the surrounding soil with excellent results.

The natural growth promotant in Nitrosol helps plants to use the available nitrogen more efficiently with less waste.

The growth promotant encourages cell division and stimulates production of plant sugars.

Nitrosol acts as an effective sticker and spreader and may help to improve the effectiveness of plant protection materials when they are applied together.

Nitrosol is widely accepted as an important part of integrated fertiliser programmes to improve soil sustainability.

Nitrosol is exported from New Zealand to Europe, Asia, Bangladesh, Canada, USA, South Africa, Australia and several South Pacific Islands.



No 5575

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