

# fact file: *Nitrosol Oceanic*

## What is Nitrosol Oceanic

**Nitrosol Oceanic** is a liquid fertiliser manufactured from hydrolysed deep-sea fish blood and bone plus trace elements and minerals with a balanced N.P.K of 11.5.7. The organic materials feed and nurture the microbiological activity in the soil, increasing cycling, bacterial and fungal activity, and earthworm counts. This improves soil structure and increases the availability of important nutrients, trace elements and minerals to the plants.

**Nitrosol Oceanic** promotes hardy and compact growth habit, stimulates photosynthesis and nutrient uptake, resulting in plants growing and producing closer to their genetic potential.

**Nitrosol Oceanic** has been around for over 50 years and over this time has developed a strong following and reputation for supporting plant growth and soil health both in New Zealand and around the world.

## Why use Nitrosol Oceanic

**Nitrosol Oceanic** will improve the nutritional value of pasture and fodder crops, with an improved balance between protein, fibre and energy. Being a colloidal suspension, this enables convenient flexible and cost-effective application via aerial, ground spray and irrigation systems, including hydroponics.

**Nitrosol Oceanic** uses modern process technology to process one of the most highly regarded organic materials, deep-sea fish blood and bone into a smooth liquid suspension. As a result of this unique manufacturing process, Nitrosol Oceanic contains important nutrients in a readily plant available form.

## Introducing a new smoother Nitrosol

We have developed a new formulation and showed our customers the new product. The particles in Nitrosol Original are now much finer resulting in a far better suspension with very little of the separation that could be visible in the earlier formulation. Upon showing and trailing this new formulation the customers reaction was very favourable. Comments reflected how smooth and silky the new formulation is and how easy it is to apply.

One of the major factors in the success of Nitrosol in growing plants and improving soil health is a portion of the nitrogen has been amino acid based. In developing the new formulation, we have managed to increase the quantity of amino acids and increase the NPK from 8.3.6 to 11.5.7. It is this increase in amino acids which has given the improvement in plant growth we observed when we tested the new formulation against the old formulation. In addition, our naturally occurring growth factor provides superior growth and results.

## **Nitrosol**

*Biological Fertilisers*

### about Nitrosol Oceanic

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, and carbohydrates to feed and nurture the biological activity in the soil.
- A naturally occurring growth factor stimulates plants to take up and use all the available nutrients, trace elements and minerals.

### Nitrosol Original

Made from sheep and beef 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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## Application to foliage

Spray a dilution of 1:200 to the drip point on a 7 – 10-day cycle during periods of rapid growth or fruit development and at intervals of up to four weeks at other times. Acts as an effective sticker and spreader when use in conjunction with plant protection or disease control materials.

## Application to soil

20 – 30 litres per hectare two to three times per year in Spring, Summer, and Autumn in a convenient amount of water to ensure coverage. May be blended and used with herbicide materials and other organic materials such as Nitrosol Ultra Fine Lime. Add as the last ingredient to the spray tank but check for compatibility first.

## Application to irrigation or fertigation

As a booster add to feed concentrate tank at the rate of 1 litre of product per 200 Ltrs of soluble salts solution. Clean filters regularly and flush lines with water after use.

## Combined Nitrosol Oceanic Application with Other Agricultural Remedies

Many applicators like to combine different agricultural remedies into one mixture for more efficient application to crops or pasture. Years of experience has shown that Nitrosol is compatible with most remedies and in many cases has been found to improve absorption and efficacy of the remedy.

**Caution:** It is the user's responsibility to check the compatibility between Nitrosol and other materials by mixing up a small sample quantity in the same ratio that will be used. If the samples mix with no difficulties (no thickening or separation) then spray onto a sacrificial plant or branch to identify any adverse effects, before widespread use on pasture, plants, trees, crops, etc.

## Application to pasture

**Dairy Pasture** – 20 – 40 litres per hectare two to three times per year in Spring, Summer and Autumn in a convenient amount of water to ensure coverage.

**Dry stock Pasture** - 20 litres per hectare two or three times per year. May be blended and used with herbicide materials and other organic materials such as Nitrosol Ultra Fine Lime. Add as the last ingredient to the spray tank but check for compatibility first.

## Typical product analysis % W/V

Nitrogen–N	11%	Phosphorus–P	5%	Potassium–K	7%
Sulphur–S	1.4%	Calcium–Ca	1.3%	Magnesium –Mg	0.35%
Sodium–Na	0.01%	Manganese–Mn	323ppm	Zinc–Zn	230ppm
Copper–Cu	202ppm	Boron-B	223ppm	Molybdenum–Mo	182ppm
Cobalt- Co	24ppm	Selenium–Se	45ppm	Iron-Fe	313ppm

## Important user information

- Nitrosol Oceanic may be used on grazing pasture with no stock withholding period.
- Do not store product that has been mixed with water, as it will not keep.
- Nitrosol may settle in its container over time. Contents should be agitated before use.

### did you know?

Nitrosol has a specific gravity of approximately 1.27 so one litre weighs approximately 1.27 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 factor in Nitrosol help plants to use the available nitrogen more efficiently with less waste.

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, Taiwan, UK, India, and several South Pacific Islands.

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