

# fact file: *Nitrosol Organic*

## What is Nitrosol Organic

**Nitrosol Organic** is a liquid fertiliser manufactured from hydrolysed deep-sea fish blood bone plus seaweed and carbohydrates with a balanced N.P.K of 6.1.3. 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 increased the availability of important nutrients, trace elements and minerals to the plants.

**Nitrosol Organic** uses modern 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 Organic contains important nutrients in a readily plant available form without the addition of any processing aids.

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

**Nitrosol Organic** has been developed after 50 years of experience and learning from the strong following and reputation gained by Nitrosol selling biological fertilisers in New Zealand and around the world.

## Why use Nitrosol Organic

**Nitrosol Organic is BioGro approved** and 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 Organic** results include aiding with stress recovery, improved yield, fruit and produce quality, strong healthy plant growth and healthier grazing animals.

## Introducing a new smoother Nitrosol Organic

The particles in Nitrosol Organic are now much finer resulting in a far better suspension with very little of the separation that could be visible in the original formulation. In developing the new formulation, we showed our customers the new product. The reaction has been great with comments on how smooth and consistent it looked. The new formulation is a vast improvement and there is a huge reduction of odours associated with traditional Organic Liquid fertilisers .

One of the major factors in the success of Nitrosol in growing plants and improving soil health is the nitrogen has been amino acid based. In developing the new formulation, we have managed to increase the quantity of amino acids and improve the NPK to 6.1.3. 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 Organic

Nitrosol Organic has been certified by BioGro Ltd for permitted use in agriculture and horticulture by certified organic growers. It is a one-step colloidal liquid suspension organic based fertiliser containing:

- A balanced NPK 6.1.3. to feed through both foliage and roots.
- A balanced formulation of natural trace elements and minerals to address deficiencies and imbalances and condition soil.
- A higher organic content including protein, amino acids , and carbohydrates to feed and nurture the biological activity in the soil to help produce healthy biologically active soil as well as highly nutritious and flavoursome fruit, vegetables and healthy nutritious feed for grazing
- Naturally occurring carbohydrates to stimulate 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**



5575

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## Application to foliage

Spray a dilution of 1:100 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 with other Organic materials such as lime. Add as the last ingredient to the spray tank but check for compatibility first.

## Application to pasture

Dairy and dry stock pasture – 20 –40 litres per hectare two to three times per year in spring and/or autumn in a convenient amount of water to ensure coverage.

## Application to irrigation or fertigation

As a booster add to feed concentrate tank at the rate of 1 litre of product per 100 litres of soluble salts solution. Clean filters regularly and flush lines with water after use.

## Typical product analysis % W/V

Nitrogen – N	6%	Manganese – Mn	27ppm
Phosphorus – P	1%	Zinc – Zn	19ppm
Potassium – K	3%	Copper – Cu	15ppm
Sulphur – S	1%	Boron – B	37ppm
Calcium – Ca	0.5%	Molybdenum – Mo	2ppm
Magnesium – Mg	0.1%	Cobalt – Co	2ppm
Sodium – Na	1.2%	Selenium – Se	4ppm
Iron – Fe	106ppm		

## Important user information

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

Because Nitrosol Organic 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.

Nitrosol has been shown to be compatible with many other herbicides and disease control materials.

**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.

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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