

fact file: asparagus

PRODUCT NITROSOL

Application to asparagus

Apply 15 - 30 litres per hectare to the soil three times per year.

- One application immediately after cutting the fern will accelerate decomposition of the fern leading to more rapid breakdown and assimilation into the soil. This assists further development of the biological activity in the soil.
- Apply one application in spring before harvest begins and this may be combined with pre-emergence weed sprays but be sure to check for compatability before spraying. Nitrosol acts as an effective sticker and spreader and will help to improve the effectiveness of the herbicide materials.
- One application to the soil immediately following completion of harvest and is often done in conjunction with close-up sprays.
- Should aerial or ground application of stemphyllium control materials be required during autumn, it is suggested that a 1:200 dilution of Nitrosol be added to act as a booster as well as a sticker and spreader, (one litre of Nitrosol per 200 litres of water.) Be sure to check for compatability.

Dilution

Mix with as much water as is convenient and practical to apply the correct amount of Nitrosol concentrate per hectare. The dilution can be varied to suit the vehicle speed, spray width and rate of application equipment. More water will create a better result but the additional water may well be from rain, irrigation or a heavy dew as Nitrosol will not leach or wash away. To ensure adequate mixing, add Nitrosol to the spray tank while adding water and as the last ingredient.

Specific trace element deficiencies

Where observation or foliar analysis identifies a specific deficiency within a crop, the element may be supplemented by the addition of small quantities of the relatively inexpensive forms. For example, copper sulphate for a copper deficiency, Solubor™ or Timbor™ for a boron deficiency, zinc sulphate for zinc deficiency etc. In this situation, Nitrosol acts as the carrier to convey the additional trace element into the crop.

Important user information

- Nitrosol may settle in its container over time. Contents should be agitated before using. This is best accomplished by rolling the 200 litre drums back and forth several times on a flat surface.
- To decant, place the 200 litre drum on its side with the bung at the 12 o'clock position. Open the bung and pour into a bucket or pail, moving the drum as the level reduces.
- Nitrosol should be stored away from extremes of temperature as the material may expand with heat and cause leakage. Storage in very cold conditions may possibly cause the formation of crystals. Where this is suspected to have occurred, be sure to strain the material as it is added into the spray tank.
- Do not store product that has been mixed with water, as it will not keep.
- Nitrosol is harmless to birds, bees and animals when used as directed.



Nitrosol
Original
Nitrosol
Oceanic
Nitrosol
Organic

about nitrosol

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

- A balanced NPK (8.3.6.) 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 organic activity in the soil.
- Two naturally occurring growth promotants to stimulate 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.

nitrosol oceanic

Nitrosol Oceanic is made from organic material 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 similar results to Nitrosol Original.

nitrosol organic

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

PHLOLIME™

about phlolime

PhloLime sprayable rapid action lime will help to raise the pH and sweeten the soil adding calcium, one of the most important minerals for healthy soil, plants, animals and humans. PhloLime contains 98% calcium carbonate on a dry matter basis. With an average particle size of only 9 microns, PhloLime will move into the soil profile rapidly where it can begin to raise the pH. It can be applied in conjunction with Nitrosol.

Telephone 0800 80 30 60 for more information

CONTINUED OVERLEAF



NITROSOL LIQUID FERTILISERS AND PHLOLIME ARE MANUFACTURED AND MARKETING BY RURAL RESEARCH LIMITED

www.nitrosol.com

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PRODUCT NITROSOL

(continued)

Typical analysis (elemental w/w)

Nitrogen - N	8%	Manganese - Mn	193 ppm
Phosphorus - P	3%	Zinc - Zn	67 ppm
Potassium - K	6%	Copper - Cu	90 ppm
Sulphur - S	1.7%	Boron - B	192 ppm
Calcium - Ca	1.3%	Molybdenum - Mo	119 ppm
Magnesium - Mg	0.2%	Cobalt - Co	10 ppm
Sodium - Na	0.3%	Selenium - Se	60 ppm
Iron - Fe	883 ppm	Gibberellins	0.01 ppm

Plus Triacontanol (Tria) growth promotant and organic material

Gibberellins - GA in Nitrosol

GA is widely distributed in flowering plants and is shown as $C_{19}H_{32}O_6$. It is often used by horticulturists on its own, to assist with the development and improvement of specific aspects of growing, for example, stimulation of flowering, and fruit quality improvements. As a contribution to the efficacy of Nitrosol, its broad action is to aid in the growth of cell size and to stimulate the plant to take up and use all the available nutrients.

Triacontanol - Tria in Nitrosol

Tria is a 30 carbon straight-chain fatty alcohol and occurs in certain waxes and the foliage of some plants. It is shown as $CH_3(CH_2)_{28}CH_2O$. Its effects on stimulating plant growth and crop yields, by increasing the growth in the number of cells, have been studied extensively in China, India, Japan and the USA. Tria has been shown to have beneficial effects towards improving the quality of fruit and flowers, in fruiting and flowering plants as well as enhancing plant health, vigour and root development. It has been demonstrated to stimulate photosynthesis within seven minutes of application. Tria is known to promote development of carbohydrates (sugars and energy) in plants. It will help stress recovery after adverse weather conditions, transplanting or application of a selective herbicide.

What Nitrosol will achieve for asparagus

- Promotion of a strong, hardy and compact growth habit.
- Helps to produce healthy ferns that become more resistant to attack from insect pests and disease.
- Healthy ferns will help to produce a better harvest of spears.
- Improved organic activity in the soil, evidenced by increased earthworm numbers.
- This leads to improved soil structure and aeration, better drainage, more drought resistance and the release of locked up nutrients.
- Application of Nitrosol after cutting the fern will accelerate the decomposition and breakdown of the fern and its assimilation into the soil where it will further assist the biological activity.
- Maximise the cost effectiveness of fertiliser inputs to feed the crop on the basis of 'a little and often' to provide ongoing and balanced growth stimulus.

Nitrosol
Original
Nitrosol
Oceanic
Nitrosol
Organic

did you know

- Nitrosol has a specific gravity of about 1.24 so one litre weighs 1.24 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 foliage and roots meaning that it can be applied directly to plants and the surrounding soil with excellent results.
- The natural growth promotants in Nitrosol help plants to use the available nitrogen more efficiently with less waste.
- 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, North America, Australia and South Pacific Islands.

Telephone 0800 80 30 60 for more information

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