ECTOL
PLANT & CROP NUTRIENTS

nitrotainTE27™

CROP RETAINED NITROGEN

Minimise atmospheric & leaching loss of Nitrogen

Liquid Nitrogen, Potassium, Sulphur and Trace Elements; nutrition, for foliar, soil or fertigation applications. NitrotainTE27 retains Nitrogen in the plant or within the soil, minimising atmospheric and leaching loss or the acidification of soils.

General Information:

Nitrogen Efficiency

Nitrogen is an essential element for the production of amino acids, nucleic acids, proteins, vitamins and is essential for plant growth, energy reactions and the production of carbohydrates.

Nitrogen fertilisers tend to be inefficient as they are highly soluble, with Nitrate Nitrogen being leached from soils especially under irrigation, or ammonium Nitrogen being lost to the air as ammonia. Both forms are also acidifying by carrying Calcium and Magnesium out of soils or by the build up of H+ ions. Acidification deep in the soil is extremely difficult to rectify.

Nitrogen retained

NitrotainTE27 is formulated to negate Nitrogen loss by chelating or complexing the Nitrogen, avoiding atmospheric or leaching losses and soil acidification. These stable forms of organic nitrogen are rapidly transferred into the plant via leaves or roots.

NitrotainTE27 and trace elements chelated (protected from becoming unavailable) with naturally occurring lignin compounds, maximising foliar and root absorption, minimising soil lock-up.

Nitrogen that is versatile

NitrotainTE27 may be applied to cereal and arable crops, legumes, grasses, vegetables and gardens, citrus, stone fruit, apples, pears and all tree crops.

Nitrogen that is safe

NitrotainTE27 will boost plant growth without causing excessive vegetative growth, leaf or fruit burn. Ideal for dry or heat stress conditions, cold or water logged soils.

Nitrogen for cereal crops

NitrotainTE27 assists grain fill and protein levels. Applied between tillering and boot growth stages.

Nitrogen for fruit and tree crops

NitrotainTE27 application to build bud Nitrogen and provide the ideal post harvest Nitrogen essential for future perennial crops. **NitrotainTE27** improves fruit size and finish without softening.

Nitrogen for pasture

NitrotainTE27 will lift dry matter production, encourage clovers and improve stock health.

NitrotainTE27 may be applied as a foliar, by fertigation or via hydroponics solutions.

ANALYSIS

Nitrogen (N) as Carboxyl-amide Complex	18.51%
Nitrogen (N) as Amino Acid Hydrolysate	7.25%
Nitrogen (N) as Potassium Lignonitrate	0.69%
Nitrogen (N) as Ammonium Lignoureate	0.55%
TOTAL NITROGEN	**27.0%**
Potassium (K) as Potassium Minerals	4.0%
Sulphur (S) as Metal Sulphates	1.8%
Magnesium (Mg) as Magnesium Minerals	5.7 g/L
Manganese (Mn) as Manganese Fulvates	750 mg/L
Iron (Fe) as Iron Humates	300 mg/L
Boron (B) as Ammonium Lignoborate	520 mg/L
Copper (Cu) as Copper Fulvates	250 mg/L
Zinc (Zn) as Zinc Humates	250 mg/L
Molybdenum (Mo) as Ammonium Lignomolybdate	100 mg/L
Cobalt (Co) as Cobalt Humates	120 mg/L
Selenium (Se) as Ammonium Lignoselenate	25 mg/L
Humates	2.0%
Fulvates	10%

Pack Sizes:
Available in 1000L, 200L, 20L.

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Crop Retained Nitrogen

NitrotainTE27 + Trace Elements

NitrotainTE27 is formulated to protect the ammonium and nitrate forms of Nitrogen, providing a slower, longer Nitrogen characteristic. The trace elements address deficiencies, which often limit the utilisation and conversion of Nitrogen to protein within the plant.

Potassium

NitrotainTE27 contains Potassium. As an essential element, Potassium is critical to the synthesis of proteins from applied Nitrogen. The Potassium in **NitrotainTE27** further enhances the efficiency of Nitrogen utilisation. The low mobility of Potassium may limit its availability to plants in sandy soils or dry conditions.

Sulphur, Magnesium and Trace Elements

Although trace elements are only required in very small quantities, they are often overlooked and may be a limiting factor in plant growth. Trace elements are often bound in soils and are best applied as a foliar spray.

Sulphur is an essential element in many enzymes and vitamins, and Nitrogen fixation in legumes.

Nitrogen plus sulphur increases yields and protein in crops, compared to Nitrogen application alone.

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Pack Sizes Available:
1000L, 200L, 20L.

Application with ECTOL Protect & Grow and ECTOL Crop & Pasture

ECTOL Protect & Grow is a unique plant growth promotant, that stimulates growth and increases sugar, starch, protein and yields in wheat and total metabolisable dry matter in pasture. **NitrotainTE27** is ideally suited to be combined with **ECTOL Protect & Grow** and may be applied to all photosynthesing crops.

Apply 3L/ha of **NitrotainTE27** + 5L/ha of **ECTOL Protect & Grow.**

Crop Recommendations:

Pasture, Legumes and Cereals
Apply 10L/ha as required.

Tree Fruit Crops, Vines
Apply 10L/ha as required.

Post Harvest
A single application of 10L/ha just before leaf fall.

Field Crops and Vegetables
Apply regularly at 5L/ha

Dilution Rates

Dilute from 1:50 to 1:100 with water.

Compatibility

Will mix with crop protection products and liquid fertilisers; do not mix with oil based chemicals.
Jar test before use.

Storage

Avoid direct sunlight; mix before using.

Handling

Non toxic, non flammable. Avoid contact with skin and eyes and avoid breathing spray mist.

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