

# Vital fertilisers for your crop

## Vital Gold 42

Highly concentrated liquid nitrogen combined with fulvic acid and seaweed extract, ideal for boosting crop nitrogen levels.

### Benefits of Vital Gold 42

- Plant available nitrogen combined with fulvic acid
- High nitrogen concentration
- Maximises nitrogen uptake and efficiency
- Minimises environmental nitrogen loss
- Mixes with a wide range of agricultural chemicals
- Includes seaweed (kelp) extract to stimulate root growth and help crops through stress
- Easy to use liquid formulation

### The Role of Nitrogen

Nitrogen is one of the most important nutrients for crop growth.

Nitrogen exists in many different forms and moves through natural and agricultural systems in a cycle. The various forms of nitrogen have different levels of availability to plants and different susceptibility to leaching or volatilisation.

The supply of useable nitrogen and its loss from the soil, affect the sustainability of production.

### How plants use nitrogen

Most of the nitrogen is used to produce plant amino acids and proteins, including the genetic material. Nitrogen is also a component of chlorophyll and therefore integral to photosynthesis.

Nitrogen is important in periods of rapid plant growth and is absorbed as either nitrate or ammonium through the roots. Nitrogen is often leached from the soil, and by combining with organic acids like fulvic acid ensure efficient uptake without excessive losses.

This essential role in plants means that nitrogen can increase yields of all crops.

### Nitrogen Deficiency

Nitrogen is readily transported through the plant from older tissue to younger tissue, so deficiencies first show as yellowing of older leaves.

### The Role of Fulvic Acid

Fulvic acid assists the uptake of nutrients into plants. It has a very high cation exchange capacity (1,400-1500meq/100g) and plays an important role in nutrient availability and structure in the soil.



Vital Gold 42 contains a blend of nitrogen fertiliser with fulvic acid and seaweed (kelp) extract; it is formulated for maximum efficiency of nitrogen.

### Typical Analysis

N 42%

10.5% as ammonium; 10.5% as nitrate; 21% as urea plus fulvic acid as potassium fulvate; seaweed extract.

### Directions for use

Use during vegetative growth stages that require nitrogen.

Suitable for a wide range of crops via irrigation and soil drench (foliar spray – broad-acre only).

### Application Rates

Apply as required using the rate best suited to the crop and program you are incorporating this product into.

#### Broad-acre Crops

Field Crops 7.5-30L/ha

Pasture 7.5-30L/ha

Minimum water for foliar spray 50-100L/ha; may cause leaf scorch in higher temperature &/or windy conditions.

#### Horticulture

Trees and Vines 7.5-25L/ha (lower rates for vines)

Vegetables 15-25L/ha

Turf 5-15L/ha

(Via Irrigation or In-Furrow; not recommended as a foliar spray in horticulture)

Minimum dilution rate 1:100 with water.

Adjust rates according to production levels. Repeat as required.

Always test for compatibility and crop suitability prior to use. Seek advice for rates suited to your crop.

### Precautions

Apply product only when plant is growing in optimum conditions. **Do not** use when crop is under stress (from any cause) or under hot conditions. **Do not** allow spray mist to concentrate or run on leaves or fruit. **Do not** spray in middle of the day.

Physically compatible with a wide range of commonly used products.

Always mix a small quantity (jar test) and check for physical compatibility before combining other ingredients.



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