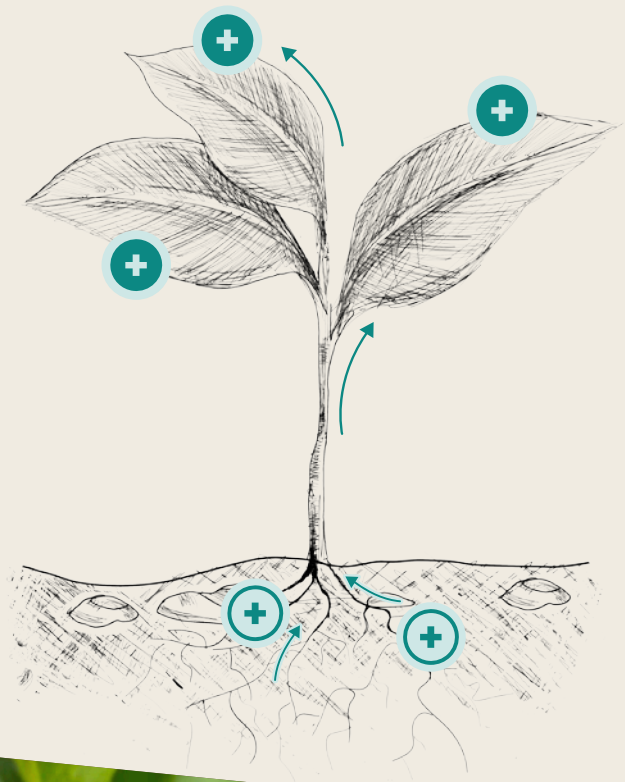
Grow Solutions®

NUTRIFLOW

Increases nutrient use efficiency

EFFICIENT UPTAKE



Stimulates nutrient flow in soil and plant to maximise uptake of given nutrients

Everything starts with the soil

Soil life is the key to good soil health

We believe the soil and plants are one connected system. A healthy soil is the foundation for resilient plants and future-proof cultivation. For over 30 years we have been helping growers by improving soil biology, soil structure, and nutrient balance, to make plants stronger and more resilient.

In this brochure, we focus on the fourth category in that process: increasing nutrient use efficiency.

Five categories, one vision

We translated our approach into a focused portfolio of soil improvers, organic fertilisers, and biostimulants, grouped into five categories: TerraPulse, RootSupport, FertiPlus, NutriFlow, and PlantPower. Each category supports a specific phase of crop development and reinforces the continuous interaction between soil and the plant.

TerraPulse | RootSupport | FertiPlus | **NutriFlow** | PlantPower

NutriFlow Category

Nutrients may be present in the soil or applied through fertilisation, but they are not always readily available for plant uptake. This category focuses on supporting nutrient mobility and availability. By influencing nutrient dynamics, our solutions help optimize growing conditions for plants. NutriFul and NutriMore each support different aspects of nutrient availability and soil health. These products can help retain nutrients, mobilize nutrients, support soil biological activity and soil structure, and improve nutrient movement within the soil-plant system.

1 L

5 & 20 L

1000 L

Foliar

Fertigation

Liquid

Soil

Organic

Characteristics

Liquid fulvic acid biostimulant containing highly active fulvic acids. Fulvic acids are known for enhancing nutrient mobilization and uptake efficiency, supporting nutrient availability.

NutriFul

Liquid biostimulant

Nutrients may be present in the soil, but are not always readily available to the plant. Bound nutrients such as phosphate and iron can limit uptake and nutrient efficiency. Fulvic acids help overcome this challenge by binding, mobilizing and transporting nutrients, increasing plant uptake. This supports stronger root development, more efficient water and nutrient use, and healthy, vigorous plant growth.

NutriFul contains highly active, 100% water-soluble fulvic acids sourced from deep Dutch groundwater and extracted via a patented, chemical-free process. This makes NutriFul particularly suitable for use alongside liquid fertilisers from our FertiPlus range, such as FertAmino, helping plants make more efficient use of the applied nutrients.

When to choose NutriFul?

- When availability of nutrients such as phosphate, iron, calcium, or magnesium is limited by fixation in the soil.
- When nutrient mobility and transport to the plant are a priority.
- When nutrient use efficiency is a priority, for instance when applying a foliar fertiliser.
- When a foliar applicable product is desired.
- When rapid support of root activity and early plant development is desired.

Application and dosage:	
Foliar	**0.5–1% concentration** (generally 1–3 L/ha/application)
Fertigation	**0.1–0.2% concentration** in the solution (generally 5-10 L/ha, every 1–4 weeks)
Soil application	**<1.0% concentration** (generally 10-20 L/ha, 1-4 times during growing season)

1 L

5 & 20 L

1000 L

Fertigation

Liquid

Soil

Organic

Characteristics

Organic liquid soil improver enhancing soil structure, microbial activity, and nutrient retention to support long-term soil fertility and resilient plant growth.

NutriMore

Organic liquid soil improver

Growers often face soils with limited biological activity, poor water retention or poor nutrient availability. These conditions can restrict root development and reduce efficient use of available water and nutrients, resulting in uneven or reduced growth.

NutriMore is an organic liquid soil improver combining humic and fulvic acids, peptide-form amino acids, and cold-pressed seaweed extract (*Ascophyllum nodosum*). It supplies organic carbon, stimulating microbial activity, improving water retention and soil structure, and creating favourable root conditions. Humic substances increase cation exchange capacity (CEC), improving nutrient retention and reducing losses, while fulvic acids, seaweed extract and amino acids support soil functionality and biological activity. Together, these components help plants use water and nutrients more efficiently for consistent growth.

When to choose NutriMore?

- When improving soil organic matter and biological activity is desired.
- When improving soil structure, water retention, or overall root zone conditions is a priority.
- When retaining nutrients in the soil and reducing losses is desired.
- For soil applications focused on improving long-term soil function and fertility.
- When building a more resilient soil system that supports consistent growing conditions over time.

Application and dosage:	
Fertigation	**0.1–0.2% concentration** in the solution (generally 5-10 L/ha, every 1–4 weeks)
Soil application	**<1.0% concentration** (generally 5–10 L/ha, every 1–4 weeks for regular applications, or 20–30 L/ha once or twice during the growing season when application opportunities are limited)

- Use higher rates when coping with soils with low content of organic matter.
- Apply weekly when soil has low CEC up to monthly when CEC is high.

I believe NutriFul is a great product that truly adds value. It supports healthier crop growth and helps plants perform better throughout the growing season.

Detmer Wage, potato grower, Groningen (The Netherlands)

Trial result

Foliar application of **NutriFul** improved onion yield by 4% and increases nutrient use efficiency

Location: The Netherlands

Trial station: UIKC Delphy

Crops: Onion, *Allium cepaa*

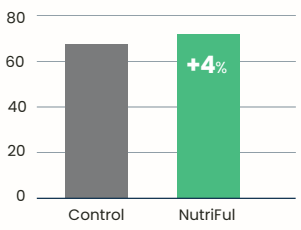
Treatments:

- Control: Standard fertilisation (N = 155 kg/ha, K_2O = 90 kg/ha)
- GrowSolutions: Standard fertilisation + foliar application of NutriFul (3 × 1 L/ha)

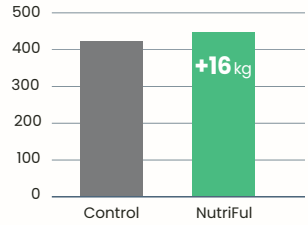
Key conclusions:

NutriFul increases marketable yield of onion by 4%, an additional 2.5 mt/ha. This is mainly due to the increase of bulb diameter in commercial sizes of 50–60 mm and 60–70 mm. The additional yield, combined with low investment cost, resulted in an extra net profit of 580 €/ha.

Marketable yield (mt/ha)



Nitrogen Use Efficiency - PFP*



* Nitrogen Use Efficiency calculated as Partial Factor Productivity (PFP)

$$PFP = \frac{\text{Yield (kg/ha)}}{\text{N applied (kg/ha)}}$$

Trial result

Soil application of **NutriFul** significantly improved nutrient uptake in pears

Location: The Netherlands,

Trial station: UIKC Delphy

Crops: Pear, *Pyrus communis*

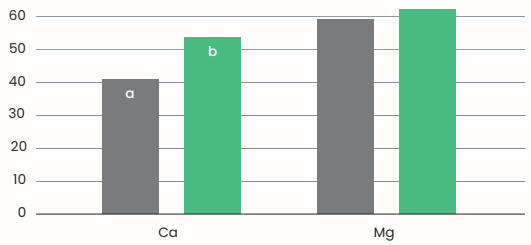
Treatments:

- Control: Standard fertilisation
- GrowSolutions: Standard fertilisation + foliar application of NutriFul (2 × 10 L/ha)

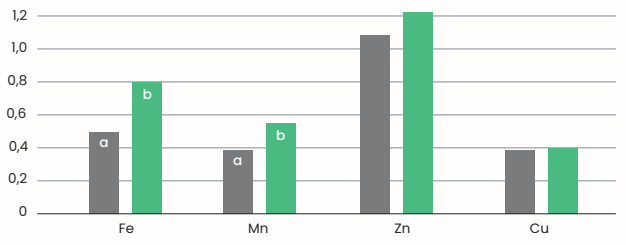
Key conclusions:

NutriFul enhanced the uptake of the macro- and micronutrients Ca (30%), Mg (5%), Fe (66%), Mn (44%), Zn (13%), Cu (5%), contributing to improved nutrient availability and potentially better fruit quality and shelf life.

Calcium and magnesium content (ppm)



Selected trace element content (ppm)



Anova: Single Factor, P < 0.05

Full product information

Contact your crop advisor or scan the QR code to view the full product information

Crop advice

Discover tailored advice featuring this product range in our crop advice sheets

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