

Guardian Plant Tonic with Seaweed Additive

A specialist natural organic compound product to boost immunity systems and yields in all types of plant.

Guardian contains various natural ingredients found in nature. Organic long-chain polymer compounds derived from glucose found in cell walls of fungi and crustacea, supported with plant growth promoting compounds and microbial nutrients.

Uses: - Apply to Turf grass, Bedding Plants, Shrubs, Roses, Vegetables, Top-Fruit, Soft Fruit, Agricultural crops.

- **Soil improvement and bio-stimulant**
- **Seed coating for rapid germination**
- **Root activation**
- **Plant health improvement**
- **Immune system booster**

Regular application promotes crop growth, builds up the capacity of resistance, increases yield and improves plant vigour and vitality.

Guardian

- **Protects and strengthens the living cell-wall structure**
- **Improves frost protection and water retention**
- **Hardens living cell structure to improve the natural immunity system**
- **Improves flower setting**
- **Improves bloom and fruit setting**
- **Improves growth rate**
- **Promotes a protective coating for fruits and vegetables.**

Guardian

The natural way to protect your plants.

Improves resistant against environmental stress, disease pathogens and insects.

Guardian offers a natural alternative to the use of chemical products that are sometimes harmful to humans and their environment.

Guardian triggers the defensive mechanisms in plants (acting much like a vaccine in humans) stimulating growth and induces certain natural enzymes (phytoalexins, chitinases, pectinases, glucanases, and lignin).

Characteristics:

It has been affirmed that *Guardian* starts the production of the phytoalexins that leads to lignin synthesis and promotion of ethylene formation. Lignin strengthens the cell walls and ethylene performs many different functions.

Guardian has no toxicity or residue

Composition:

Analysis of Guardian	Wt/Vol
Oligo Saccharin (Molecule weight =3000 Dalton)	2.6%
Back ground nutrition, for microbe nutrition	12%
Organic wetter	15%
Organic chelating electrolytes	30%
Appearance	Dark yellow / brown liquid
pH	4-5
Gravity	1:1.1

Biological Activity:

Mode of action: Guardian is an elictor that stimulates the natural defence response system in treated plants. Poly-D-glucosamine, one of the active ingredients in Guardian binds to fungal receptor sites, mimicking an attack of fungal spores. This, in return, results in signals being sent to the nuclei of the plant cells eliciting multiple genetic and biological responses, including the production of phytoalexins (antimicrobial compounds produced in plants), aimed at inhibiting fungal infections.

Application:

Vary the rate depending on disease pressure and canopy size,

Frequency:

Reapply every 7 to 14 days during growing season.

<i>Foliar</i>	<i>Application rates</i>	<i>Dilution rates</i>
Turfgrass Crown drench	10 - 40 litres / Ha (1.0 - 1.5 ml / m ²)	400 – 600 litres water / Ha
Turfgrass Foliar	10 - 40 litres / Ha (1.0 – 4.0 ml / m ²)	200 – 300 litres water / Ha
Horticulture (Foliar) Fruit, Vegetables, Flowers	10 - 40 litres / Ha (1.0 – 4.0 ml / m ²) Pump Sprayer / Watering Can	200 – 400 litres water / Ha 5mls per gallon
Seed	Soak for 24 hours	10 ml / litre water

Precautions

- *Shake or stir well before use.*
- *Compatible with some other Travena products and most other liquid fertilisers but always perform a "jar test" to check for precipitation.*
- *Not compatible with alkaline based materials*

Important: Use with care. Protect eyes when handling concentrate. Keep out of reach of children.

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