



Cereals

Crops: Wheat, Barley, Triticale, Oat, Rye

Target diseases:

- Eyespot of cereals (*Tapesia yallundae*)
- Take-all disease (*Gaeumannomyces graminis*)
- Fusarioses (*Fusarium* spp.)
- Rusts (*Puccinia* spp.)
- Leaf spots diseases (*Septoria tritici*, *Pyrenophora teres*)

Application during vegetation:

1. Application

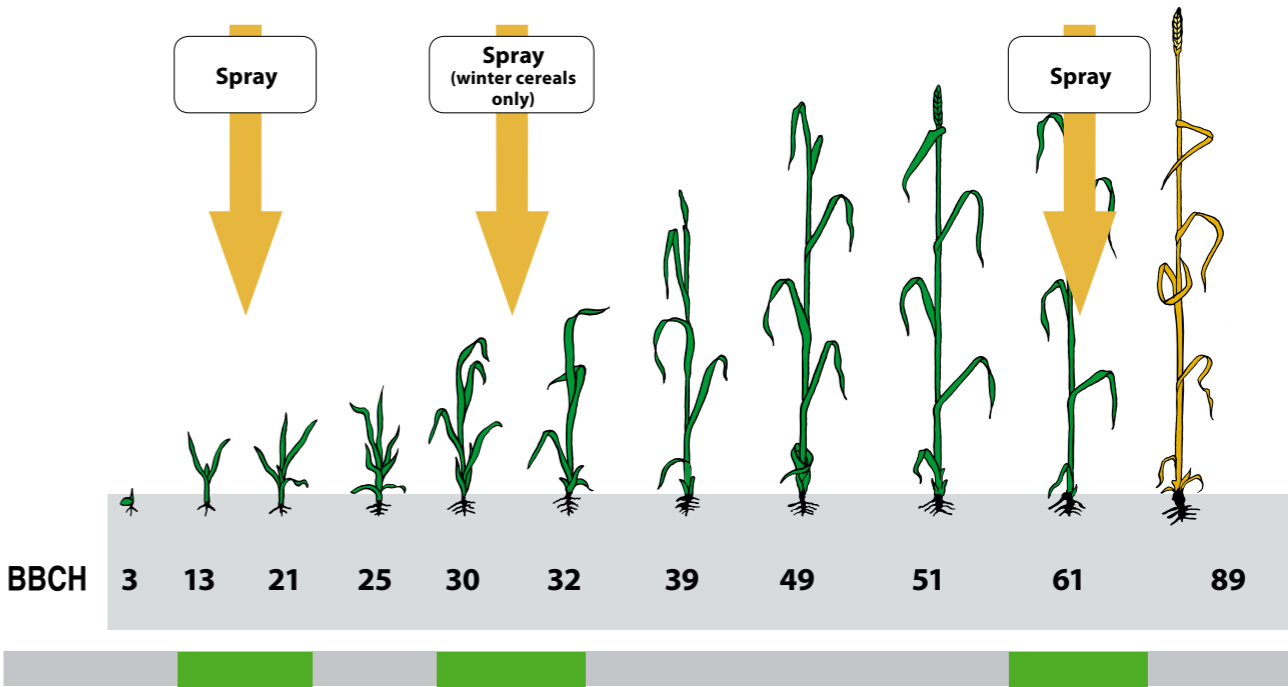
Dosage: 0.1 kg/ha
Stage: BBCH 12–23 (2 leaves – 3 tillers)
Purpose: To suppress soil pathogens surviving on plant remnants *Fusarium* spp., *Gaeumannomyces graminis*, *Tapesia yallundae* and induce resistance against other diseases.

2. Application (winter wheat)

Dosage: 0.1 kg/ha
Stage: BBCH 29–32 (at the end of tillering to the beginning of stem elongating)
Purpose: To suppress *Fusarium* spp. and to induce resistance to *Puccinia* spp.

3. Application

Dosage: 0.1 kg/ha
Stage: BBCH 55–65 (the beginning of flowering)
Purpose: To suppress *Fusarium* spp. in ears.



Crop	Target diseases	Dosage	PHI	Remarks
Cereals	Eyespot of Cereals Fusarioses Rusts Take-all Leave spots diseases	0.1 kg/ha	0	300 – 400 l of water/ha





Fruit vegetables

Crops: Cucumber, Tomato, Pepper, Eggplant, Pumpkin

Target diseases:

- Downy mildew (*Pseudoperonospora cubensis*)
- Late Blight (*Phytophthora infestans*)
- Complex of soil fungal diseases attacking the roots and root bases e.g.:
 - *Pythium* spp.
 - *Fusarium* spp.
 - *Botrytis cinerea*
 - *Sclerotinia* spp.
 - *Rhizoctonia* spp.
 - *Verticillium* spp.
 - *Alternaria* spp.

No pre-harvest interval required & vegetable consumption is possible immediately after product application
 No chemical residues in the vegetables
 The product is suitable for use in Integrated Pest Management
 Number of applications is unlimited

Seed treatment: Seeds are treated by mixing in with the product.

Dosage: 5 g/kg seed

Purpose: Protection against soil phytopathogenic fungi that attack plants at the beginning of vegetation

Germinated plant treatment: Watering with 0.05% suspension of the product

Dosage: 0.05% suspension of the product

Purpose: Protection against soil phytopathogens and initial support of young plant growth

Seedling treatment before planting: Dipping of seedling root ball just before planting (alternatively seedling trays can be dipped in 0.05% suspension)

Dosage: 0.05% suspension of the product

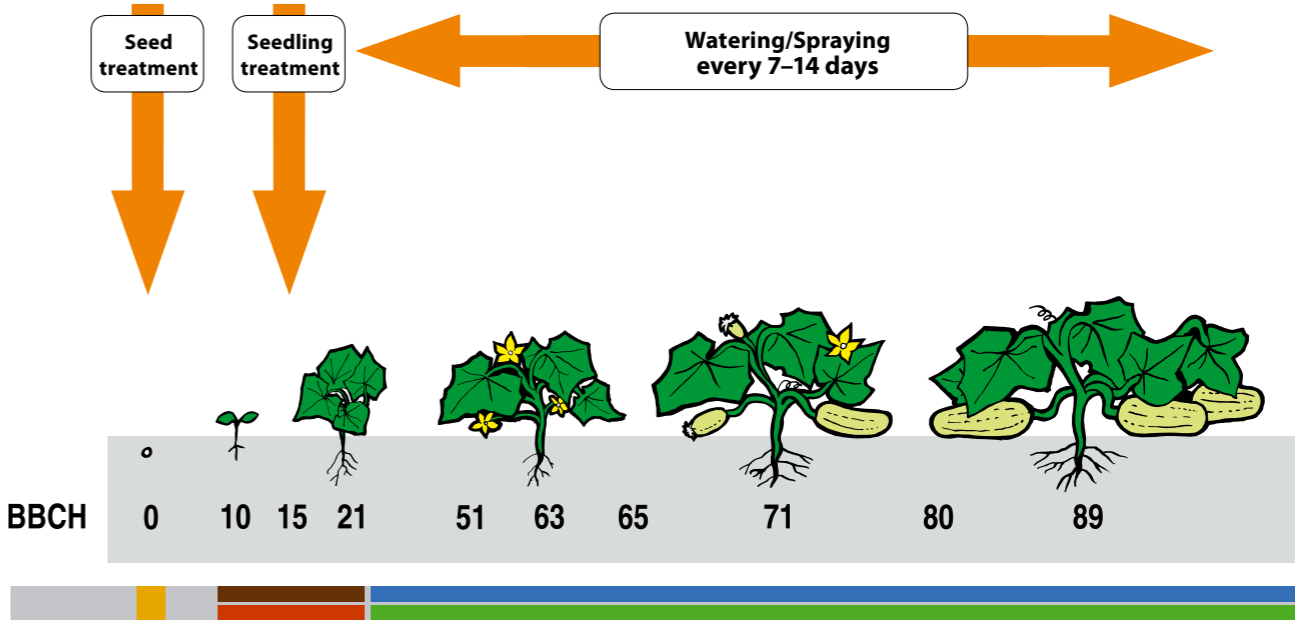
Purpose: Protection against root rot

Application during vegetation: Spraying or watering – the total number of applications is not limited by human safety or environmental factor concerns

Dosage: 0.1–0.2 kg/ha

Stage: After planting every 7–14 days

Purpose: Prevention to delaying Downy Mildew, Late Blight and other fungal infections.



Crop	Target diseases	Dosage	PHI	Remarks
All vegetables	Fungal soilborn diseases	5 g/kg	N/A	Seed treatment
	Fungal soilborn diseases	0.05 %	N/A	Root dipping before planting
Fruiting vegetables	Downy mildew, Late Blight	0.1–0.2 kg/ha	N/A	Spraying (at the beginning of vegetation) or watering (during the vegetation stage) 300 – 1000 l of water/ha watering (according to the amount of crop leaf mass)
	Fungal diseases	0.05 %	N/A	Watering





Root vegetables

Crops: Carrot, Parsley, Celery, Radish, Horseradish, Beetroot

Target diseases:

- Complex of soil fungal diseases attacking the roots and root bases e.g.:
 - Pythium* spp.
 - Fusarium* spp.
 - Botrytis cinerea*
 - Sclerotinia* spp.
 - Rhizoctonia* spp.
 - Verticillium* spp.
 - Alternaria* spp.

No pre harvest interval required & vegetable consumption is possible immediately after product application

No chemical residues in the vegetables

The product is suitable for use in Integrated Pest Management

Number of applications is unlimited

Seed treatment: Seeds are treated by mixing in with the product.

Dosage: 5 g/kg seed

Purpose: Protection against soilborn phytopathogenic fungi that attack plants at the beginning of vegetation

Germinated plants treatment: Watering with 0.05% suspension of the product

Dosage: 0.05% suspension of the product

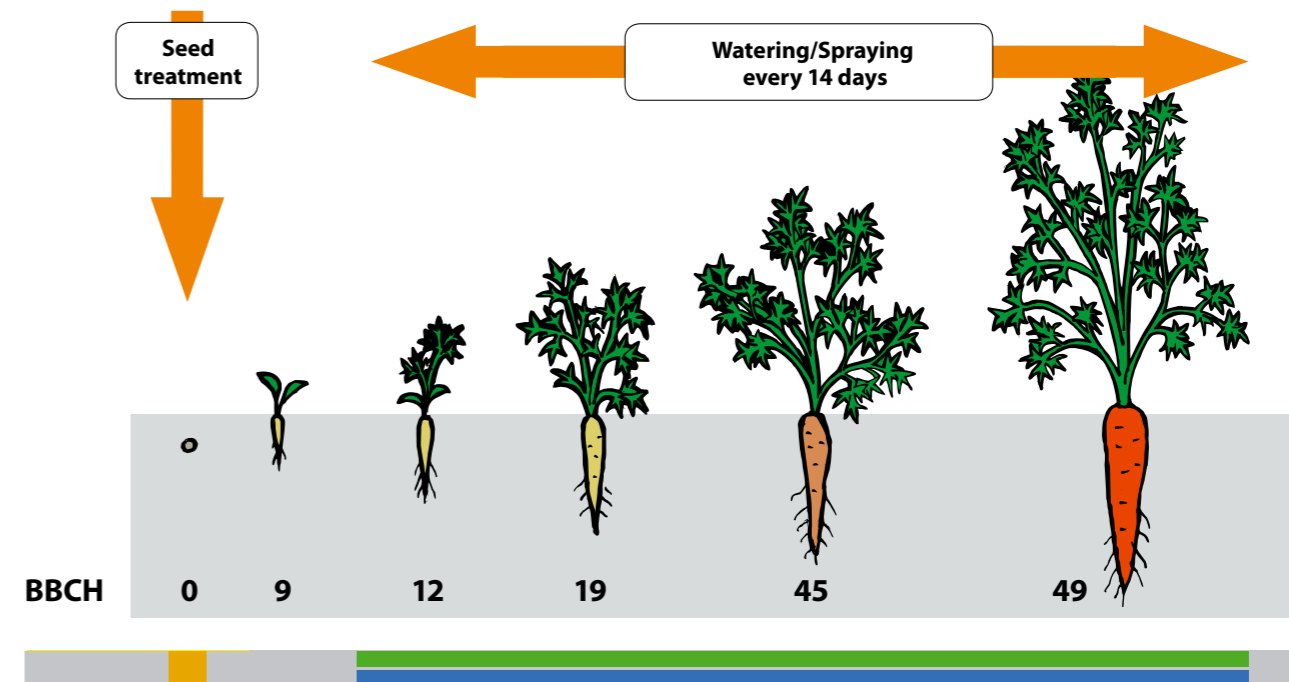
Purpose: Protection against soil phytopathogens and initial support of young plant growth

Application during vegetation: Spraying at the stage of germination or watering – the total number of applications is unlimited

Dosage: 0.1–0.2 kg/ha (according to the crop)

Stage: The beginning of vegetation, during vegetation

Purpose: Protection against leaf and stem root rot



Crop	Target diseases	Dosage	PHI	Remarks
All vegetables	Fungal diseases	5 g/kg	N/A	Seed treatment
Root vegetables	Alternaria Leaf Spot Phoma Root Rot	0.1 – 0.2 kg/ha	0	300 – 800 l water/ha; watering/spraying at the germination stage





Strawberry

Target diseases:

- Red Stele Root Rot (*Phytophthora fragariae*)
- Phytophthora Crown Rot (*Phytophthora parasitica*)
- Grey Mould (*Botrytis cinerea*)
- Leaf spot (*Mycosphaerella fragariae*)
- Anthracnoses (*Colletotrichum* spp.)

No pre-harvest interval required & fruit consumption is possible immediately after product application

No chemical residues in the fruit

Number of applications is unlimited

Application of the product prior to harvest extends fruit storability

Seedling treatment: Seedlings are dipped in 0.05% suspension of the product or seedling roots are dipped only

Dosage: 0.05% suspension of the product

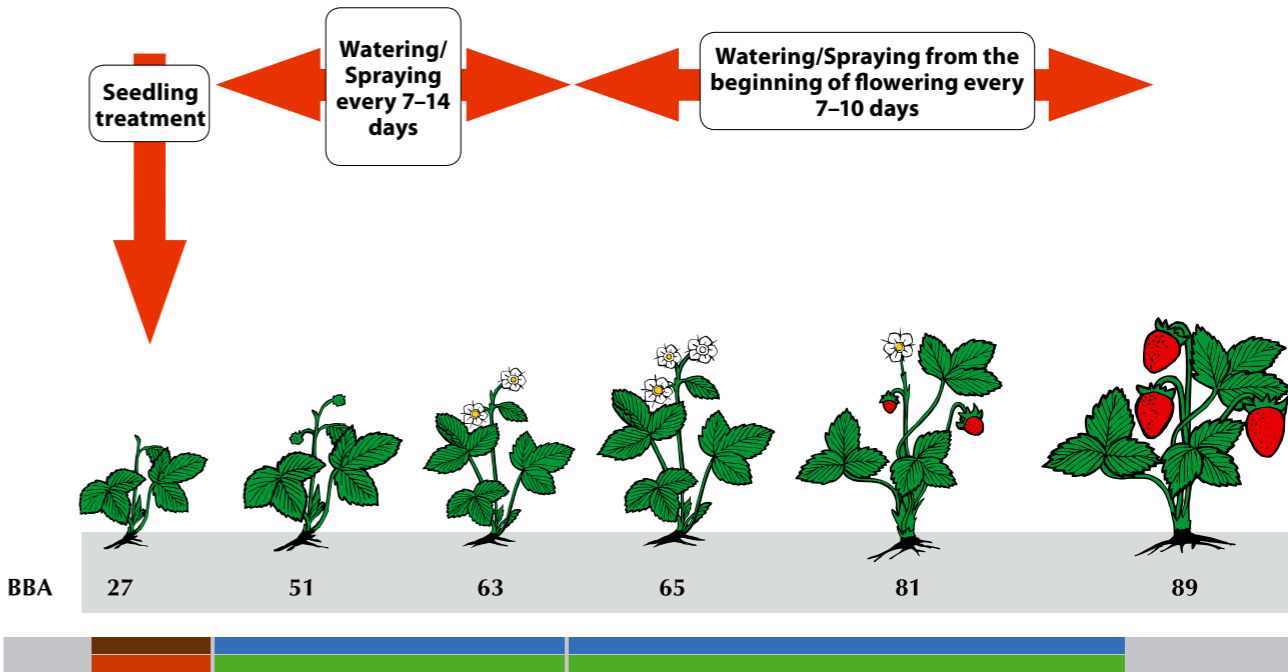
Purpose: Protection against root rot (*Phytophthora* spp.), improved survival rate and faster development of treated plants

Application during vegetation: Spraying or watering – the total number of applications is not limited by human safety or environmental factors

Dosage: 0.1 kg/ha

Stage: Every 7–14 days from the beginning of vegetation

Purpose: Protection against root rot at the beginning of vegetation and induction of resistance in treated plants. Treatment with Polyversum from the beginning of flowering to harvest time serves to protect the plants against grey mould on fruit and treatment prior to harvest reduces attack of grey mould on harvested fruits



Crop	Target diseases	Dosage	PHI	Remarks
Strawberry	Red Stele Root Rot, Phytophthora Crown Rot	0.05 %	N/A	Dipping of seedlings before planting, watering after planting
	Grey Mould Phytophthora Crown Rot	0.1 kg/ha	0	Unlimited number of spray applications with 300–800 l of water/ha



Grape wine and fruit trees

Target diseases:

- Fungal diseases of seedlings e. g.:
 - *Pythium* spp.
 - *Fusarium* spp.
 - *Verticillium* spp.
- Grey Mould (*Botrytis cinerea*)
- Downy Mildew (*Plasmopara viticola*)
- Storage diseases

No pre-harvest interval required & fruit consumption is possible immediately after product application
The product can be used in conjunction with root protective hydrogels
Unlimited number of applications

Seedling treatment: The whole seedlings are dipped in 0.05% suspension of the product or the root system is dipped in this suspension. The product can be used together with gel-like preparations for example, seaweed based for better adhesion to plant roots.

Dosage: 0.05% suspension of the product

Purpose: Protection against soil-borne diseases causing root rot. The presence of *Pythium oligandrum* in the root system of the planted trees is growth-stimulating and secondary metabolites induce natural resistance against fungal diseases in grapes. Hereby, ensuring improved and quicker development of treated plant seedlings.

Plant treatment after planting: Watering

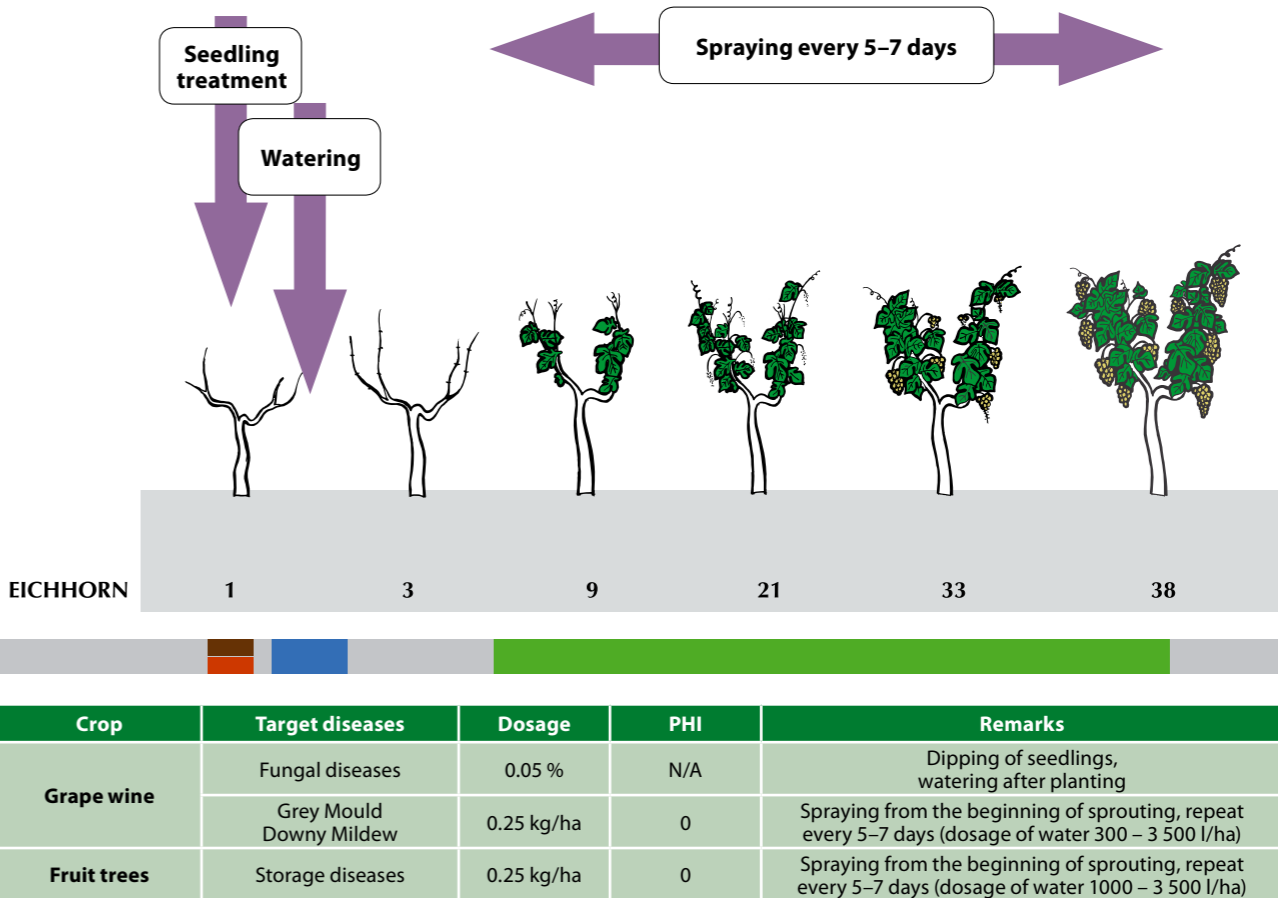
Dosage: 0.05% suspension of the product

Purpose: Protection against soil phytopathogenic fungi and plant growth stimulation at the beginning of vegetation

Application during older plants vegetation (for organic agriculture only): Spraying

Dosage: 0.25 kg/ha

Purpose: Protection against phytopathogens (*Botrytis cinerea*, *Plasmopara viticola*), which may occur from the stage of flowering and induction of resistance





Forest and ornamental nurseries

Target diseases:

- Complex of soil fungal diseases attacking the roots and root bases e.g.:
 - *Pythium* spp.
 - *Fusarium* spp.
 - *Botrytis cinerea*
 - *Sclerotinia* spp.
 - *Verticillium* spp.
 - *Alternaria* spp.

Seed treatment: Dry seeds are treated by mixing with the product.

Dosage: 5 g/kg seed

Purpose: Control of soil pathogenic fungi, which can attack plants at the beginning of vegetation.

The seedling treatment before planting: dipping of seedling root ball just before planting (alternatively seedling trays can be dipped in 0.05% suspension)

Dosage: 0.05% suspension of the product

Purpose: Protection against root rot

Plant treatment at the beginning of vegetation: watering with 0.05% suspension of the product

Dosage: 0.05% suspension of the product

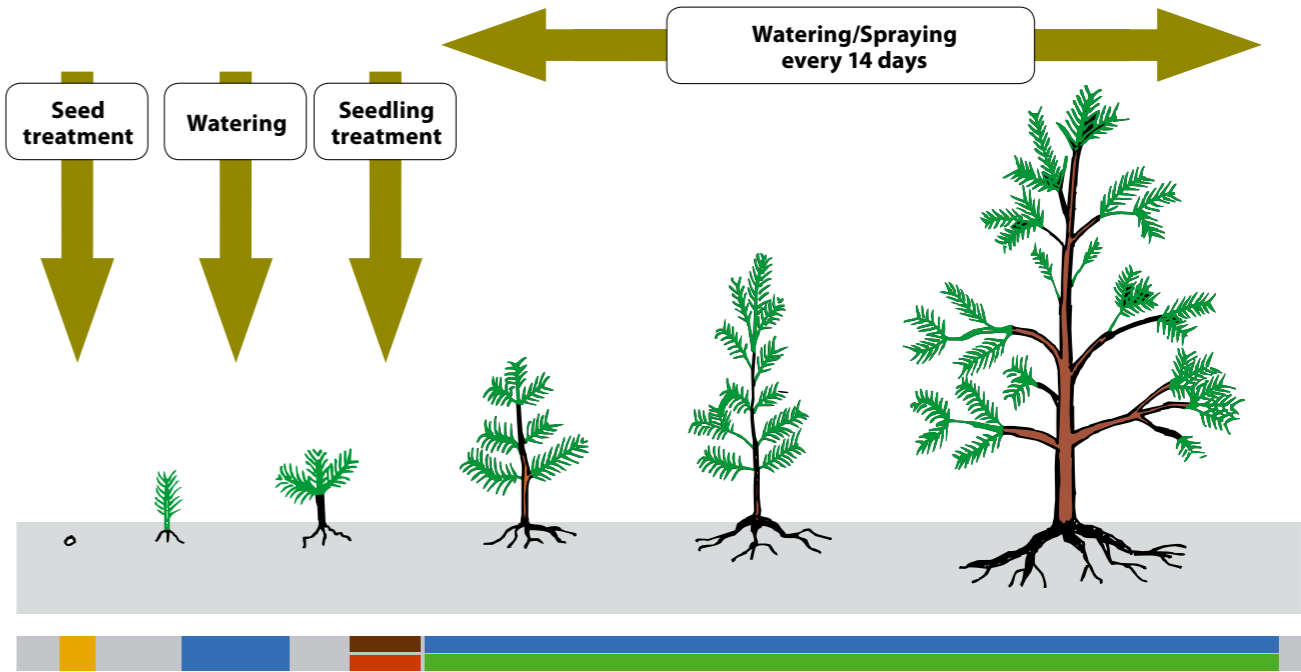
Purpose: initial support of young plant growth and protection against soil phytopathogens.

Application during vegetation: watering or spraying

Dosage: 0.25 kg/ha

Stage: every 7–14 days from the beginning of vegetation, according to the forecast of fungal disease occurrence

Purpose: Protection against fungal diseases.



Crop	Target diseases	Dosage	Remarks
Forest and ornamental nurseries	Fungal diseases	5 g/kg	Seed treatment
	Fungal diseases	0.05 %	Root dipping
	Fungal diseases	0.25 kg/ha	Spraying/Watering (300 – 800 l of water/ha)



Ornamental plants

Target diseases:

- Complex of soil fungal diseases attacking the roots and root bases e.g.:
 - *Pythium* spp.
 - *Fusarium* spp.
 - *Botrytis cinerea*
 - *Sclerotinia* spp.
 - *Verticillium* spp.
 - *Alternaria* spp.

Seed treatment: Seeds/bulbs/tubers are treated by mixing with the product.

Dosage: 5 g/kg seed/bulbs/tubers

Purpose: Control of soil pathogenic fungi, which can attack plants at the beginning of vegetation.

Application during vegetation:

Spraying

Dosage: 0.25 kg/ha

Stage: every 7–14 days from the beginning of vegetation

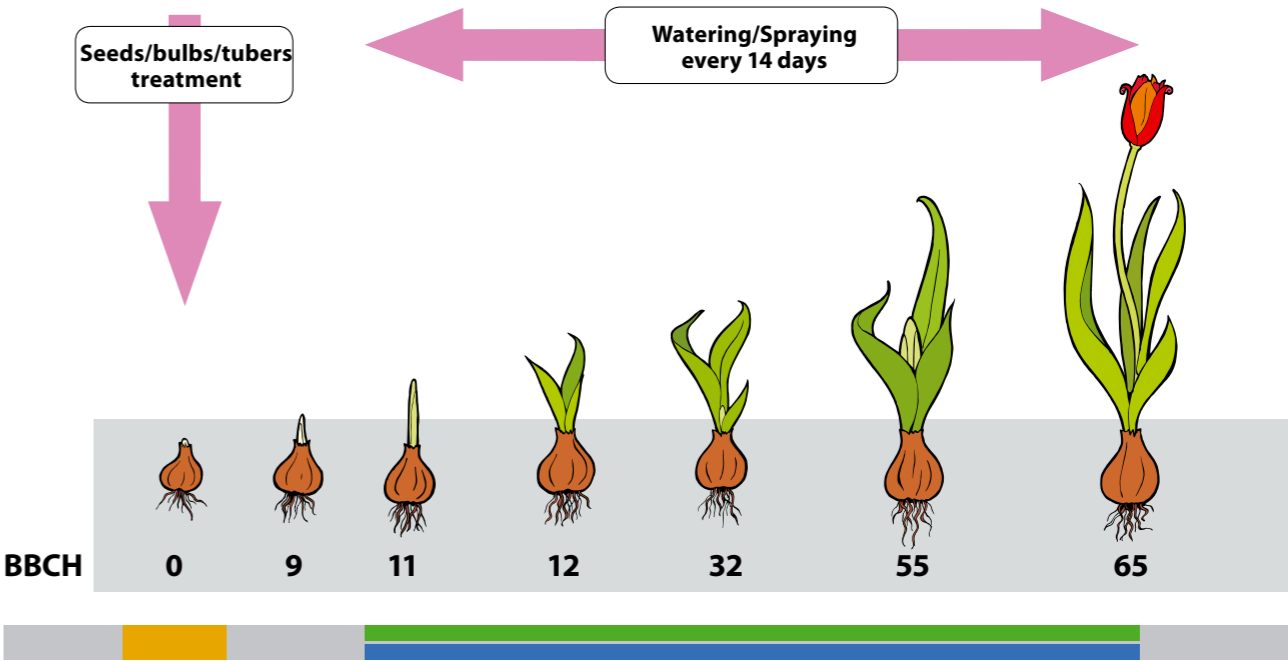
Purpose: Protection against fungal diseases.

Watering

Dosage: 0.05% suspension of the product

Stage: every 7–14 days from the beginning of vegetation

Purpose: Protection against fungal diseases.



Crop	Target diseases	Dosage	PHI	Remarks
Ornamental plants	Fungal diseases	5 g/kg	N/A	Seed/bulbs/tubers treatment
	Fungal diseases	0.25 kg/ha	N/A	Spraying/Watering (300 – 800 l of water/ha)

