



# Biological crop protection for allium

Koppert

Partners  
with Nature

# Who we are?

To make our world more sustainable, we need ways of growing that are both safe and healthy. We believe the answers to these agricultural challenges lie in nature itself. So we partner with nature. And help our planet to find its balance. Using natural enemies to combat pests, bumblebees for pollination, microbials, and biostimulants that support, protect, and strengthen crops. Improving plant health both above and underground.

We were founded in 1967 by Jan Koppert, a Dutch grower with a clear vision; the world needed an alternative for chemical pesticides. He was the first to find a natural solution to combat the pest in his crop. Setting in motion a major transformation towards sustainable agriculture.

For over 50 years, we have been pushing agricultural innovation, and these efforts have impact. Growers worldwide use our products and knowledge to restore the natural balance in their crops. Improving crop health, resilience, and yield.

Together we are meeting the highest food safety demands on our way to our ultimate goal: 100% sustainable agriculture.

A clear goal we can't complete on our own. That's why we team up with growers, partners, universities, research stations, and governmental bodies worldwide. Together we contribute to the better health of people and the planet. So let's continue to move forward and Partner with Nature.



# Why choose our solutions

Partners  
with Nature



strategy

Easy to integrate in your IPM\* strategy



No residue solutions



Effective, high-quality natural products



Easy to use

Easy to use



Safe for the environment

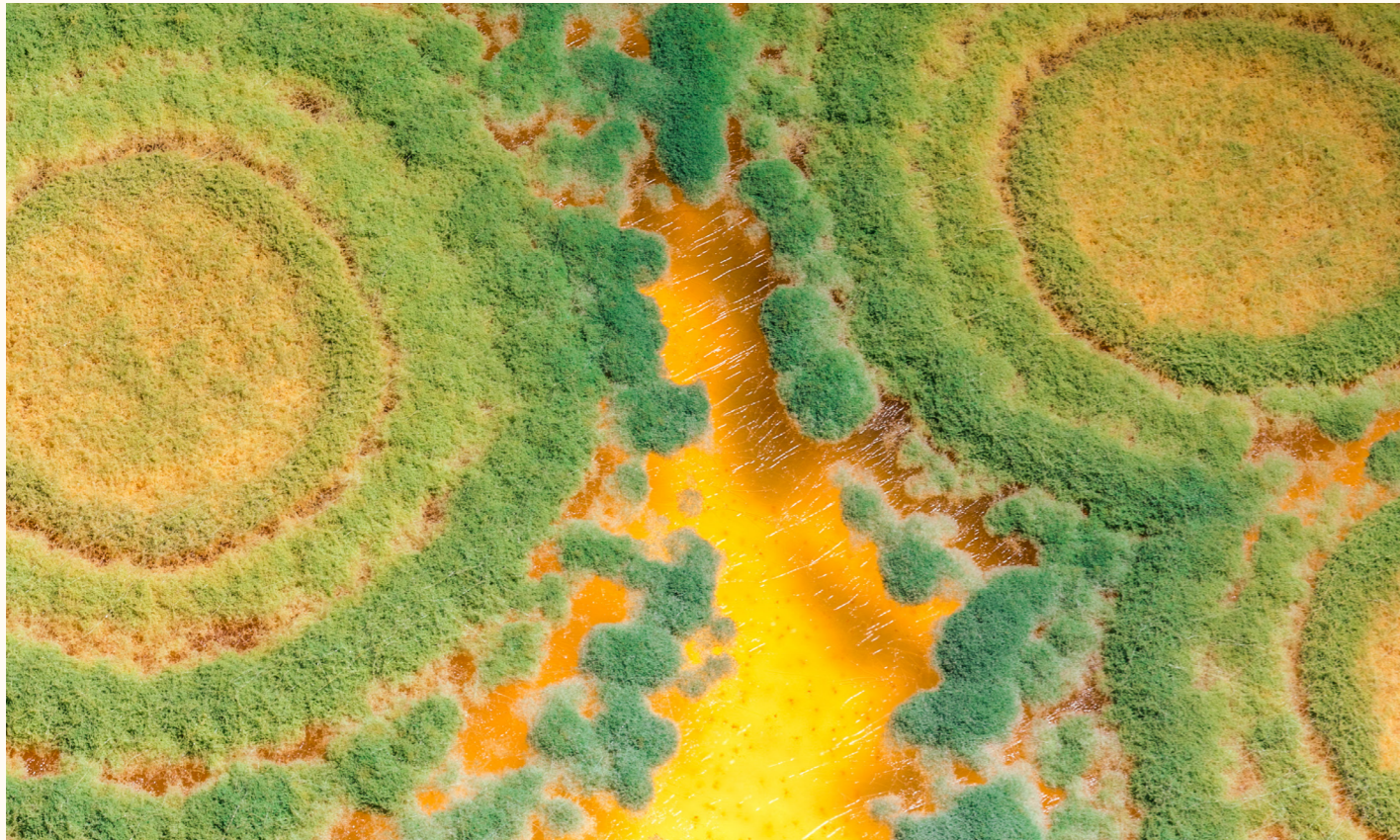


Safe for users

Together with growers we strive for  
100% sustainable agriculture

\* Integrated Pest Management (IPM) is a sustainable and broad-based approach that integrates practices for the economic prevention and control of pests and diseases in crops. Natural enemies can be effective, and pesticides (chemical substances for controlling pests) are only used when alternative options do not produce the required result.





# Trianum

## When to apply

Trianum-G: Sowing.

Trianum-P: Sowing & later on in the crop cycle.

## Targets

- Fusarium and others soil born diseases (f.e. Rhizoctonia, Sclerotinia, Phytium)
- Promotes plant growth and uniformity

## Product description

Trianum is a biofungicide, based upon the unique fungus *Trichoderma harzianum* T-22. Trianum is offering many positive characteristics that are beneficial for growers as it controls soil borne diseases, improves growth and results in a stronger and more resilient crop.

Once Trianum is applied, the fungus starts to develop around the roots of the crop competing with other pathogens for food and space. As the beneficial fungus is growing it produces substances (enzymes) that break down the cell walls of pathogens

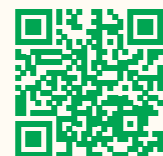
inhibiting their development, and produces antifungal substances making it difficult for fungal pathogens to develop.

When Trianum is growing on the roots, it triggers the crop to activate its natural defence mechanisms against pathogens, making the plant more resilient to stressful situations.

Trianum should be applied from the beginning of the crop cycle and is formulated as wettable granules (Trianum-P) and as micro granules (Trianum-G).

*Check local registration before using.*

**For more information on the product:**



# Capirel

## When to apply

Apply 7 to 14 days after first fly detection (monitoring). Repeat every 7 to 10 days to cover the risk period.

## Targets

*Delia antiqua*.

## When to apply

Apply once thrips detected.

Low pressure: 2 applications 7 to 14 days apart.

High pressure: 3 applications at 7 days interval.

## Targets

*Thrips tabaci*.

## Product description

These beneficial nematodes enter the pest and release symbiotic bacteria into the pest's body cavity. These bacteria convert the host tissue into a food source, on which nematodes feed, develop, and reproduce inside the host. This kills the pest within a few hours to days after infection.

Beneficial (entomopathogenic) nematodes are fast acting specific insect killers organisms. Considered as macroorganisms in most countries (like beneficial insects), they have increasingly become a powerful part of IPM solutions; working together to either partly substitute, and sometimes replace the use of conventional pesticides, to manage pests that are extremely difficult to control and where chemicals fail or are simply not available anymore.



**For more information on the product:**





# Orius majusculus and Thripor-L

## When to apply

Preventively on bankerplants Lobularia.

## Targets

Mainly Thrips tabaci.



## Product description

Orius is a predatory bug which can control thrips. The Adults and nymphs pierce thrips larvae and adults with their sucking mouthparts and suck out the contents.

# Monitoring and traps

## Efficient monitoring is key

The success of integrated or biological pest management depends heavily on knowledge of the pests present and on the correct use of natural enemies. IPM is precision work. You have to adjust your approach to the specific pests present or those expected in the crop, and do this at the right time. A full range of different types of sticky traps, sticky ribbons and pheromone traps is available for these tasks.

For more information you can always contact your local Koppert contact.

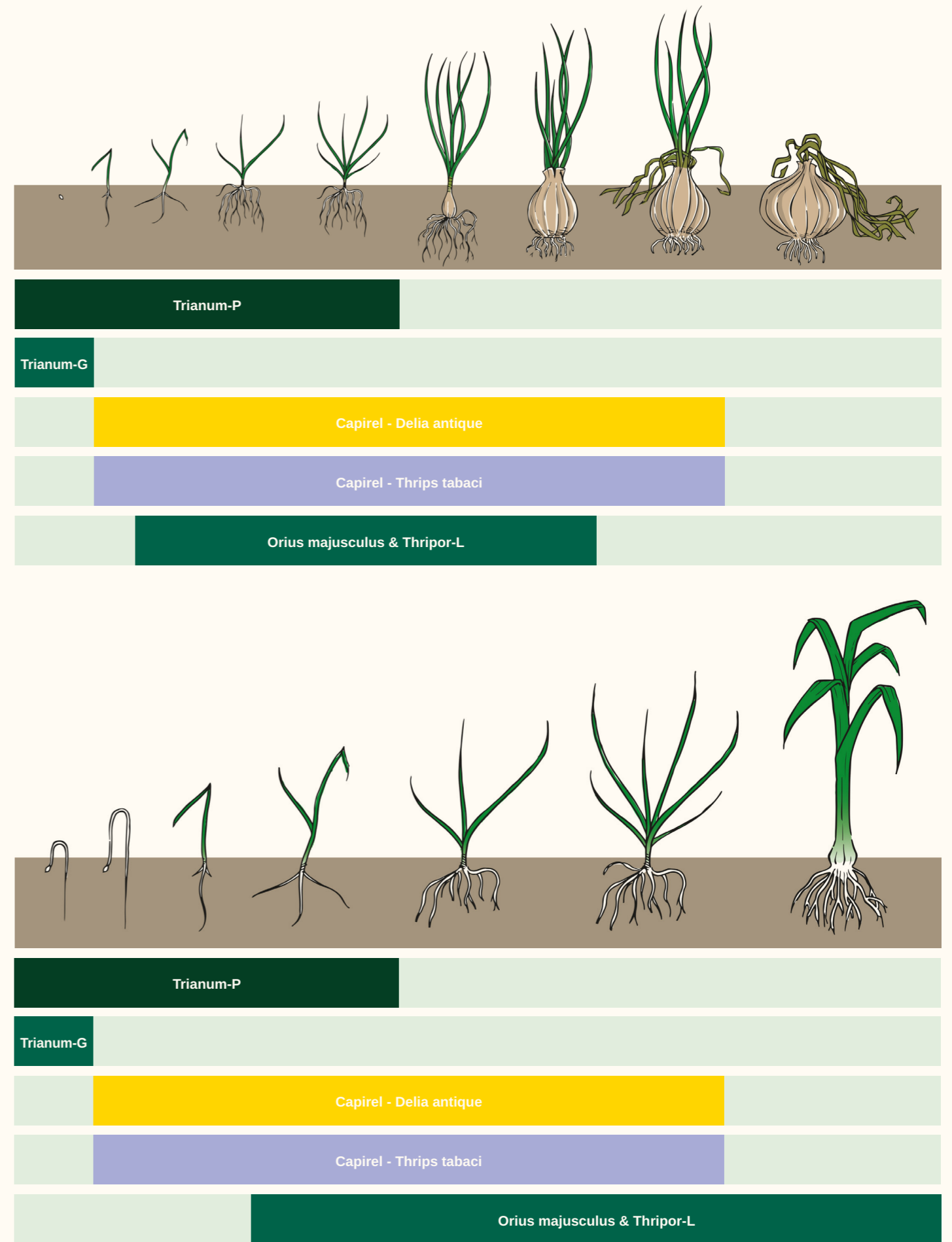
To explore our product range:



Giving you greater insight into what's happening in your crop and putting you in control of potential pests, requires careful monitoring. And that's something Koppert now aims to take to the next level of innovation and effectiveness.



# When to apply?





Pesticides can have (in)direct effects on biological solutions. Find out which pesticides have side effects on the products you would like to use.

**For more information:**



**Disclaimer**

The general conditions of Koppert (Koppert B.V. and/or of its affiliated companies) apply. Only use products that are permitted in your country/state and crop. Check local registration requirements. Koppert cannot be held liable for unauthorized use. Koppert is not liable for any loss of quality if the product is stored for longer than recommended and/or under incorrect conditions.

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