

DeruNed bv

DeruNed develops and supplies natural crop protection products for professional horticulture.

Using 100% natural ingredients such as enzymes, amino acids and plant extracts, DeruNed formulates effective preparations that feed and protect your crop. These natural products are suitable for use in combination with chemical and biological crop protection products.

To develop a high quality product, DeruNed works together with several independent research centres.

DeruNed products are available from your horticultural supplier. If you have any questions after reading this information you can contact our product team.

Savitan increases your crop's resistance and protects it from nematodes

What is Savitan?

Savitan is a liquid concentrate based on extracts from plants, including desert plants, and fatty acids. Savitan increases the resistance of the crop, making it suitable for use during times when a crop is weak and therefore more susceptible to damage. The plant is then not very able to resist disease-causing (pathogenic) organisms. By giving Savitan as a nutrient to the plant the defence system is activated sooner so that the probability of infection is considerably reduced. In effect, the plant is more alert.

Furthermore, Savitan protects your crop against harmful nematodes such as the root knot nematode and free-living nematodes.

How does Savitan work?

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1. Increasing resistance

One of the main ingredients of Savitan is salicylic acid which activates the plant's defence system, so that it can offer more resistance to various pathogenic organisms. Moreover the fatty acids that are present (palmitic, stearic, oleic and linoleic acids) ensure that the structure of the cell wall is strengthened. This in turn strengthens the plant, so that pathogenic organisms have more difficulty in gaining entry.

2. Protection from nematodes

Free-living nematodes

The way Savitan acts on nematodes differs for the different types of nematode. In free-living nematodes, which spend 90% of their lives outside the plant, the salicylic acid in Savitan slows the sloughing of the skin. Moreover the free-living nematode becomes disoriented by the aromatic substances in Savitan and cannot find the roots so quickly.

Root knot nematodes

In root knot nematodes the female, in particular, causes a great deal of damage. Once it is out of the egg, it finds a niche among the roots of a plant, near to the vascular bundles. To feed itself it then produces large cells, which can be seen from the outside as knots. The bigger the knots, the more the vascular bundles in the root of the plant have been squeezed off. (continued)



How does Savitan work? (cont.)

Administering Savitan strengthens the cell walls so that the cells immediately around the vascular bundles can resist a greater pressure. The vascular bundles remain open longer, so that it is longer before the plant actually suffers because of the infection. Thus with Savitan production remains at full level for longer.

Using Savitan

Savitan can be used throughout the year. We advise starting with Savitan early in the crop cycle.

A weekly dosage is most effective. Savitan is suitable for use in combination with all common crop protection products (integrated crop protection). Do not use Savitan with hydrogen peroxide products. Shake well before use.

Application:

Hydroponic cultivation:

Over the past few years, nematodes have been increasingly found in hydroponic cultivation. Biweekly use of Savitan throughout the year will reduce the population. The root system will develop well again and the crop will recover.

Soil cultivation:

If Savitan is used, the nematodes will be driven away. Thanks to a more effective defence, the root system will recover, thus avoiding arrears in growth.

Savitan must be used consistently!.



Outdoor cultivation:

Outdoor cultivation is often plagued by nematodes. DeruNed recommends a biweekly dosage of 1 litre. If, for certain crops, biweekly sprinkling is impossible or undesirable, Savitan may be administered every four weeks. This will require a higher dosage of 2 litres per hectare however. If the soil temperature is below 5 degrees, Savitan need not be administered.

Dosage:

Indoor cultivation:

1 litre per hectare. Repeat every two weeks.

Outdoor cultivation:

1 litre per hectare. Repeat every two weeks.

At longer intervals:

2 litres per hectare. Repeat every four weeks.

Application with Biopak:

Savitan is regularly used in combination with Biopak. Savitan then works especially within the plant and Biopak in the soil environment.

Storing Savitan

Savitan can be kept for six months after opening, providing the bottle is securely closed and stored in a cool, dry and dark place.



Savitan

A natural product to combat nematodes