



# Sportnem: Effective biological pest control for turf

Not only humans enjoy lawns and sports pitches and sports turf. Crane flies, chafer grubs, mole crickets and other beetles relish them as well! A good reason Koppert has developed an effective range of insect pathogenic nematodes that effectively combat these major turf pests in a safe and natural way.



Good timing and application are crucial. Once a nematode has found and penetrated a pest larva through a body opening, it begins its' destructive work. In order to convert the larvae into food, the nematode releases symbiotic bacteria. These bacteria spread throughout the larvae, multiplying rapidly while feeding on the host tissue and converting it into a form easily taken up by the nematodes. The infected larvae die within a few days, but the beneficial nematodes continue to multiply and develop in the host larvae. As soon as the nematodes are in the infectious third stage, they leave the host and start searching for new targets. The nematode population will slowly decrease once there are no new hosts present.



- based on two species of insect pathogenic nematodes
- have no negative effects at all on plants and are not harmful to humans, birds, fish, or mammals.



### Biological control of leatherjackets

Sportnem-T contains the insect pathogenic nematodes *Steinernema carpocapsae*. These are effective against a number of turf pests, especially the larvae of crane flies and leatherjackets (*Tipula* spp. and others). The crane fly goes through six stages of development: the egg stage, four larval stages, and an adult stage. Adult crane flies only live for a few days. Some species have one generation per year, while others produce several generations in a year. This means that larvae can be found - and can do damage - year-round. See table below for the optimum time to apply SPORTNEM-T based on the life cycle of the leatherjacket.

#### Period of application Sportnem - T

Crane fly larvae	J	F	M	A	M	J	J	A	S	O	N	D
Owlet moths	J	F	M	A	M	J	J	A	S	O	N	D
Mole crickets	J	F	M	A	M	J	J	A	S	O	N	D

Optimum application period



### Biological control of chafer grubs and weevils

Sportnem-H contains the insect pathogenic nematodes *Heterorhabditis bacteriophora*, targeting chafer grubs in turf. The adult chafer is often seen in May/June, with the very small grubs hatching from late June onwards. These grubs immediately start feeding and are fully grown by autumn, causing extensive primary and secondary (caused by i.e. birds and badgers) damage. As soil temperatures drop, grubs stop feeding and go deeper into the soil. During spring, they crawl closer to the surface, pupate, and emerge as adults in May/ June. See table below for the optimum time to apply SPORTNEM-H based on the life cycle of the chafer grub.

#### Period of application Sportnem - H

Chafer grubs	J	F	M	A	M	J	J	A	S	O	N	D
Weevils	J	F	M	A	M	J	J	A	S	O	N	D

Optimum application period

*Effectiveness can vary according to pest species. Repeated applications during the optimum application periods are recommended.*

Your distributor:

