

## Biological control of chafer grubs

**nema-green®** contains entomopathogenic nematodes of the species *Heterorhabditis bacteriophora* for the biological control of larvae of several chafer grubs (e. g. Billbugs, Japanese beetle, Northern and Southern mask chafer, Oriental beetle, Asiatic garden beetle).

### Application conditions

**nema-green®** may be used from end of July to the end of September.

The nematodes are most infective at soil temperatures from 12 to 30°. They are very susceptible to UV-light and to desiccation and should therefore be applied in the evening or in dull weather.

### Application directions and rates

**nema-green®** can be easily applied with typical spray equipment like a conventional boom-sprayer at a dosage of 0.5 million nematodes / m<sup>2</sup>.

Use nozzles with at least 0.8 mm diameter. Pressure should not exceed 5 bar. Nematodes should be applied with at least 1,200 l water per ha. Addition of wetting agent will be favourable on thatch.

- Thoroughly clean sprayer esp. after insecticide use
- Remove all sieves and filters inside the tank and before the nozzles
- Add ¾ of the required amount of water to the tank
- Dilute packs in a bucket with 5 litres of water
- With the agitator running add content of bucket to the tank
- Add a wetting agent
- Add the remainder of water and begin application

Take care, that the solution will be agitated during filling process and spraying until the tank is empty.

Irrigate with 1-2 litres of water/m<sup>2</sup> after application to wash the nematodes off the leaves and into the soil.

### Compatibility

**nema-green®** is compatible with most chemical fertilizers and pesticides. Only a few insecticides have a negative impact on **nema-green®**. In these cases apply **nema-green®** 3 days earlier or 2 weeks later. A compatibility list can be downloaded at <http://www.e-nema.de/service-en/compatibility-of-pesticides/>.

### Storage and handling

**nema-green®** should be used as soon as possible upon delivery. Store at 4 to 10 °C (see expiry date on package). It should never be frozen or exposed to more than 30°C. Remove all sieves in the tubing and at the nozzles. Use nozzles with at least 0.8 mm diameter. Do not exceed pump pressure of 5 bar. Mix the solution thoroughly and maintain agitation during spraying to avoid sedimentation of the nematodes!

### Safety

The active ingredient and the formulation of **nema-green®** are safe to users, consumers and the environment. There are no restrictions or safety instructions for the usage of **nema-green®**.