

# nemastar<sup>®</sup>

For biological control of leatherjackets, mole crickets and cutworms

## Storage

Apply nemastar<sup>®</sup> as soon as possible upon delivery. The product may be stored at 4-8°C until the expiration date on the package. Do not freeze or expose to temperatures higher than 35°C.

## Application timing

Leatherjackets: Mid September to mid October  
Mole Crickets: April to September  
Cutworms: June to August

## Application conditions

The soil temperature must be above 14°C for at least several hours per day. Apply during early morning or late evening. Do not apply in bright sunlight. The soil surface should be moist and remain moist for one week. Irrigate within 30 minutes after application to wash the nematodes into the soil.



## Application/Dosage

Always use the whole pack, as the nematodes aren't evenly distributed.

Rinse the package to flush any nematodes still clinging to it. Stir the solution until all lumps have dissolved. Repeat stirring every 15 minutes.

Package size	Premix for watering can in	Treats	Premix for Nema-Sprayer in
10 million	4 litres water	20 m <sup>2</sup>	0.5 litre water
25 million	10 litres water	50 m <sup>2</sup>	1 litre water
50 million	20 litres water	100 m <sup>2</sup>	2 litres water

Premix the entire contents of the package in 4-10 litres of water as per the instructions in the table. Pour 1 litre of the solution into a watering can with 9 litres of water. Apply the solution over 10 m<sup>2</sup> of soil. Repeat until all the solution is used.

Alternatively, follow the instructions for the Nema-Sprayer as shown in the table.



## Any questions?

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We can help you!

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# Biological control of leatherjackets

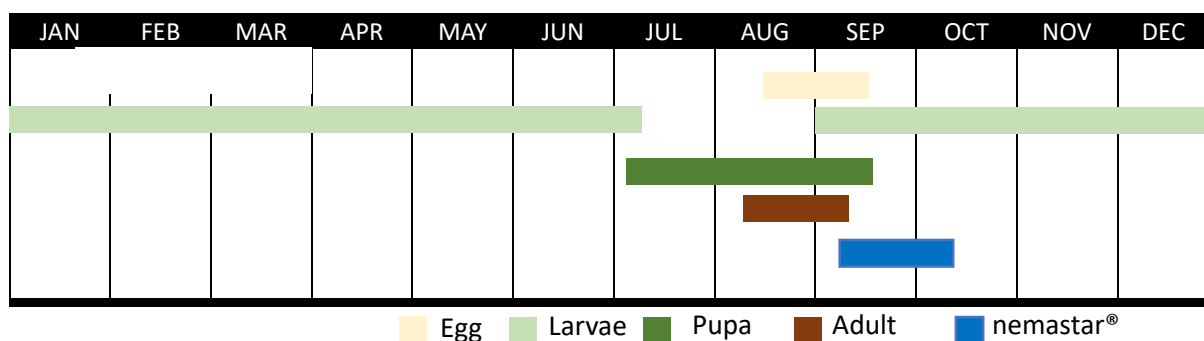
Crane flies (*Tipula paludosa*) emerge from the ground at the beginning of August. The females are immediately mated and begin to lay eggs. After the first egg-laying, they fly away to lay eggs in other places. Controlling the adults to prevent damage to lawns is therefore largely ineffective.

The larva that hatch from the eggs go through four stages in their development. The first two larval stages, L1 and L2, develop from September to October. They feed mainly at night on above-ground plant parts. The larva of the 3rd and 4th larval stages cause the most damage in spring. They stay under the turf during the day and are therefore easy prey for birds and mammals.

Only the L1 and L2 larva are infected by nematodes. On areas with regular infestations, nemastar® should therefore be applied in September, when no damage is yet noticeable. The best period is two weeks after the flight peak. The soil temperatures should then remain above 12°C for at least a week.

## Life cycle of the leatherjacket

Treatment period is blue



**nemastar®** is only effective against first and second instar larva. When used from mid-September to the beginning of October, efficacy levels of up to 80 % are achieved.