

## **NEMATECH S<sup>®</sup> SP is a biological solution for management of thrips, fungus gnats and sciarid flies.**

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**NEMATECH S<sup>®</sup> SP** is a biological insecticide containing a naturally occurring insect killing (entomopathogenic) nematode used to control thrips, fungus gnats and sciarid flies in vegetables and ornamentals. The nematodes enter the insect body to complete their life cycle; in the process they kill the insect.

### **Product specification**

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**NEMATECH S<sup>®</sup> SP** contains third stage infective juveniles (J3) of *Steinernema feltiae* Isolate DDT-D2 in an inert carrier.

### **Mode of action**

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The juvenile nematodes enter the insect body through natural openings such as spiracles. Once inside the insect body, the nematodes release symbiotic bacteria (ingested from the soil) which are lethal to the insect. The nematodes molt to the next stage, feed on the dead insect, multiply and move to find new hosts to infect.



## Directions for use

**NEMATECH S<sup>®</sup> SP** may be applied as a soil drench using standard irrigation equipment or by any standard method used in pesticide application. Mix the required amount of the water soluble product with water (15 – 20°C) and stir well to form a uniform suspension. Apply to the garden or compost mix using a watering can and onto larger areas using drip irrigation or standard high volume spray equipment at a minimum water rate of 1,000 litres per ha. Use a maximum pressure of 5 bars and spray nozzles of at least 0.5 mm. All filters must be removed to avoid blockage. Applications should be done early morning or late evening for maximum target reach, ensure continuous mixing during application. Irrigate immediately after application in case of soil drench. Use the entire package content.

Although **NEMATECH S<sup>®</sup> SP** is compatible with most fungicides and insecticides, however tank mixing is not recommended. Simultaneous use of nematicide must be avoided.

## Rate and frequency of application

Apply 2.0 – 2.5 billion juveniles per ha or 200,000 – 250,000 juveniles per square meter.

Depending on the pest pressure **NEMATECH S<sup>®</sup> SP** can be applied between 2 – 3 times every 5 – 14 days apart. When the pest pressure is high apply 3 times, 1 week apart. When the pressure is low apply once every 4 weeks.

CROP	PEST	RATE (INFECTIVE JUVENILES/HA)	REMARKS	PHI
Ornamentals	<ul style="list-style-type: none"><li>• Thrips</li><li>• Fungus gnats</li><li>• Sciarid flies</li></ul>	2.5 billion	Depending with pest pressure, apply 2 – 3 times, 5 – 14 days apart as drench.	0
Vegetables	<ul style="list-style-type: none"><li>• Thrips</li><li>• Fungus gnats</li><li>• Sciarid flies</li></ul>	2.5 billion	Apply as a drench 2 – 3 times, 5 – 14 days apart depending with pest pressure.	0

## Facts about NEMATECH S<sup>®</sup> SP

- Obligate parasites of a wide range of insect pests.
- No resistance development to **NEMATECH S<sup>®</sup> SP**.
- Safe to the environment, beneficial organisms and applicators.
- No re-entry and no PHI period required.
- Highly effective on the various stages of the thrips lifecycle.
- Reproduce rapidly once they find the hosts.
- The nematode is not parasitic to the plant.
- Moves easily with soil water in search of new hosts.

## Storage conditions and shelf life

- Store and transport at 8 – 12°C.
- Do not freeze.
- Maximum storage time in original unopened

container in a cool dark place at 8 – 12°C is 3 months from date of manufacture.

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