

# NemaTrident<sup>®</sup>C



For biological control of Welsh chafer (*Hoplia philanthus*), Garden chafer (*Phyllopertha horticola*), Summer chafer (*Amphimallon solstitialis*), May beetle (*Melolontha melolontha*) and Brown chafer (*Serica brunnea*) in sports turf & amenity

NemaTrident<sup>®</sup>C contains a naturally occurring beneficial entomopathogenic nematode, *Heterorhabditis bacteriophora* (15%), inert ingredients (65%) and water (20%).

Each Pack holds, 50, 250 and 500 million of *H. bacteriophora* infective juveniles. The nematodes are formulated in a wettable powder, enclosed in a Non-Water-Soluble pack.

**NemaTrident<sup>®</sup>C is safe, sustainable and can provide 80-90% efficacy for effective control of chafer grubs at temperatures as low as 12°C if applied with Nemaspreader<sup>®</sup> - making it the most effective and versatile product currently available.**

**Our unique Tri-Component System ensures maximum dispersal of infective juvenile nematodes within the soil which then go in search of larvae to penetrate and kill.**

## Directions For Use

### Application rates

Application Method	Application Volume	Application	Dose/ha	Pack size 50 million	Pack size 250 million	Pack size 500 million	Number of Applications
Turfgrass	1L/m <sup>2</sup>	Curative	2.5 billion	100m <sup>2</sup>	500m <sup>2</sup>	1000m <sup>2</sup>	2-3 at weekly intervals

### Application timing

NemaTrident<sup>®</sup>C should be applied from the end of April (late instar and pupal control) to the end of October (early stage of larval control) for the control of chafer grubs.

### For best results

- Apply NemaTrident<sup>®</sup>C with Nemaspreader<sup>®</sup>, a wetting agent (1L/100L of water), at the recommended rates for maximum efficacy.
- Apply nematodes when chafer grubs are present and close to the soil surface.
- Nematodes are very susceptible to ultra-violet light and desiccation. Apply during early morning or late evening during low light levels. Do not apply in bright sunlight.
- The soil surface should be moist at the time of application and if possible irrigation before application will be beneficial.
- Apply nematodes at a time when soil temperature is expected to be above 12°C for at least 3 - 6 hours per day for at least two weeks after application.
- The entire pack contents must be used once opened.
- Remove all filters from nozzles on spraying equipment to avoid blockages.

### Application directions

NemaTrident<sup>®</sup>C can be applied using conventional spraying equipment or irrigation systems. Where available soil injection equipment can be used to accurately deliver the nematode solution to precise depths where larvae habitate. NemaTrident<sup>®</sup>C should only be applied to moist soil. Only use nozzles with at minimum diameter of 0.8mm. Pressure should

not exceed 5 bar. Nematodes should be applied with at least 500-1000 litres of water per hectare. Combining nematodes with Nemaspreader<sup>®</sup> will help the nematodes to disperse and move through the thatch layer and effectively penetrate the soil to search for and kill the chafer grubs feeding on the root systems.

### Ground spraying

- Clean all equipment with clean water before using NemaTrident<sup>®</sup>C.
- Remove all fine filters in the tubing and at the nozzles.
- Use nozzles with at least 0.8 mm diameter.
- Mix the nematode into 10 litres of water.
- Rinse the pack since nematodes often cling to the packaging.
- Stir the stock solution until all lumps are dissolved.
- Add ¾ of the required amount of water to the tank along with the required amount of Nemaspreader<sup>®</sup>.
- With the agitator running, add the required amount of NemaTrident<sup>®</sup>C through the sieve.
- Add the remaining water and begin application of the nematode maintaining agitation to avoid settlement of the nematodes until all the mixture has been applied.
- Irrigate with 1-2 liters of water/m<sup>2</sup> after application to wash the nematodes off the grass or soil.
- As soon as NemaTrident<sup>®</sup>C is mixed with water and Nemaspreader<sup>®</sup> the entire spray solution should be used in a single application. Do not store for longer than 4 hours in tank.

## Compatibility

NemaTrident®C is compatible with most chemical fertilizers and pesticides. Only a few insecticides have a negative impact on NemaTrident®C. In these cases, apply NemaTrident®C 3 days earlier or 2 weeks later. For detailed information on compatibility please visit our website: [www.bionema.com](http://www.bionema.com).

## Storage

The product should be stored at 5 to 10°C to retain maximum viability (see expiring date on the package).

## Precaution

- Keep away from children.
- Wash hands and face after handling with clean water.
- Do not freeze.

## Safety

The active ingredients and the formulation of NemaTrident®C are safe to users, consumers and the environment. There are no restrictions or safety instructions for the use of NemaTrident®C.

## Limitation of liability

Efficacy of nematodes can be influenced by many factors such as storage, method of application, water volume, soil or substrate moisture and pest density. Bionema Limited cannot be held responsible for any risks. Users should follow the product instruction and contact us for help. Liability is disclaimed for insufficient quality or possible damage arising from circumstances outside of our jurisdiction.

## Contact

For further assistance and expert guidance please contact us below.