



Metafur™

Biological Product

**Powerful nematicide
against a wide range of
Nematodes**



Sineria



Metafur™



Saccharum officinarum plant extract bagasse

Chemical group: Aldehyde, carbohydrate

Manufactured from bagasse

(the waste fiber of sugar cane following the extraction of sugar)

The Active Ingredient of **Metafur EC™** is a natural product of Sugarcane.

The Active Ingredient is also classified as a food ingredient and naturally found in food substances such as bread, coffee, Brandy, Whiskey and some alcoholic beverages.



Metafur EC™ characteristics

- Semi-systemic contact nematicide
- Movement only in the root system
- Liquid Emulsifiable Concentrate, containing natural metabolites
- Application at planting and post-planting during the season
- Unique formulation from organic plant material
- Field-proven efficacy
- Non-volatile formulation for increased safety

Metafur EC™ is less harmful to non-target organisms, compared to commonly used nematicides such as Oxamyl, Fenamiphos, etc. to certain beneficial soil fungi and bacteria (e.g. *Trichoderma* sp., *Bacillus* spp.).

Metafur EC™ Advantages

- Natural by-product of Sugarcane
- Organic & biodegradable
- Kills harmful nematodes by contact and ingestion, therefore is also effective against free living nematodes
- Can be applied throughout the growing season
- Multiple applications possible
- IPM Compatible
- Application enhances plant stimulation
- Metafur EC™ application suppresses major soil insect pests like White-grubs

Mode of Action



- Direct exposure of nematodes to the active ingredient
- The activity of **Metafur EC™** is by contact and through ingestion when the nematode pierce the external cell layers of the root which are exposed to the soil.
- Almost all plant parasitic nematodes are susceptible to **Metafur EC™**
- **Metafur EC™** damages the cuticle of the nematode
- The nematodes are paralyzed and stop feeding within hours preventing subsequent crop damage

General Application Rate

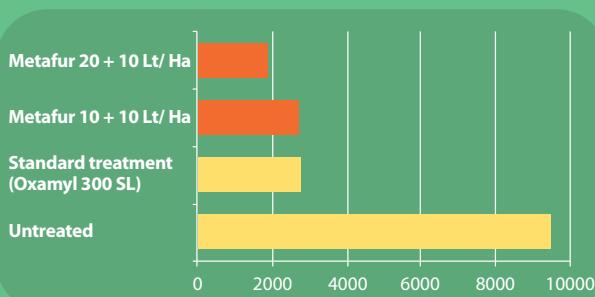


- Vegetables: 20 Lt/ha
- Ornamentals: 20 Lt/ha
- Sugarcane: 25 Lt/ha
- A split application of 10 + 10 Lt at 2-week interval is recommended.

Drip/trickle Irrigation System Application

- Commence watering to moisten soil
- Inject **Metafur EC™** in irrigation system as long as possible (minimum ½ hour)
- Flush system with water to ensure no **Metafur EC™** remains in the system

Field Trial: Evaluation of **Metafur EC™** in the control of Nematodes in Banana Trees (Costa Rica, 2014)



Treatment	Count
Untreated	9487
Standard treatment (Oxamyl 300 SL)	2764
Metafur 10 + 10 Lt/Ha	2689
Metafur 20 + 10 Lt/Ha	1874



Untreated: Banana roots infected by *Radopholus similis*. Note dark lesions and necrotic roots induced by the nematode feeding and tunneling.



Treated with Metafur EC™: Healthy roots maintaining a healthy plant and healthy fruits.



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