

# Metafur

BiologicalProduct

Powerful nematicide against a wide range of Nematodes







## <u>Metafur</u>™



### 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

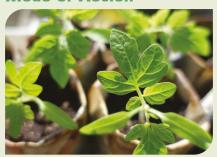
- Semi-systemic contact nematicide
- Movement only in the root system
- Liquid Emulsifiable Concentrate, containing natural metabolites
- Application at planting and post-planting during the season
- Unique formulation from organic plant material
- Field-proven efficacy
- Non-volatile formulation for 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<sup>™</sup> 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<sup>™</sup> damages the cuticle of the nematode
- The nematodes are paralyzed and stop feeding within hours preventing subsequent crop damage

#### **General Application Rate**



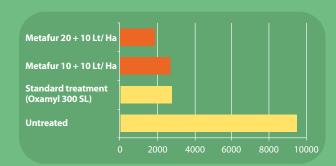
Vegetables: 20 lt/haOrnamentals: 20 lt/haSugarcane: 25 lt/ha

• 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





Nematodes

**Banana Trees** 





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