

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



NEMACUR® 100 GR

Reg. No. L 2056 Act/Wet No. 36 of/van 1947

1:1/11/2012 - Oct2018

N-AR 0056

*A granular systemic nematocide for the control of nematodes in bananas, tomatoes, citrus, papayas, cotton, guavas, litchi's, pecan nuts, ginger, vineyards, tobacco and groundnuts.*

*'n Korrel sistemiese aalwurmdoder vir die beheer van aalwurms op piesangs, tamaties, sitrus, papajas, katoen, koejawels, lietsjies, pekanneute, gemmer, wingerd, tabak en grondbone.*

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

fenamiphos (organophosphate) **100 g/kg** fenamifos (organofosfaat)

IRAC INSECTICIDE GROUP CODE **1B** IRAC INSEKDODER GROEPKODE

kg

villa 

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

Tel: 011 396 2233

Website / Webblad: [www.villacrop.co.za](http://www.villacrop.co.za)

UN Number: 2783



Willow Set & Print 011 394-4486



VERY  
TOXIC  
UITERS  
GIFTIG



GEBRUIKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK

Date formulated:  
Formuleringsdatum:

REFER TO DETAILS PRINTED  
ON CONTAINER/BAG

DIRECTIONS FOR USE ENCLOSED

Batch number:  
Lotnommer:

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Registration holder / Registrasiehouer:

**VILLA CROP PROTECTION (PTY) LTD.**

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413, ASTON MANOR, 1630

Tel. (011) 396 2233

**VERY TOXIC****UITERS GIFTIG****WARNINGS****Withholding periods:**

Allow the following number of days between the last application and harvest or feeding of the crops listed below:	
Citrus (bearing trees)	150 days
Cotton	84 days
Guavas and Pecan nuts	120 days
Litchis	70 days
Ginger (harvesting of rhizomes)	250 days
Vines	100 days
Tobacco	51 days
Groundnuts	63 days
<b>ADDITIONAL: Only use as a pre-transplant treatment in tomatoes</b>	

**NOTE**

**THE RECOMMENDED WITHHOLDING PERIOD BETWEEN LAST APPLICATION AND HARVEST MEETS LOCAL RESIDUE REQUIREMENTS BUT MAY NOT MEET EXPORT REQUIREMENTS. IF THE TREATED CROP IS INTENDED FOR THE EXPORT MARKET, CONSULT THE RELEVANT EXPORTING BODY BEFORE APPLICATION OF THE PRODUCT, REGARDING PRE-HARVEST INTERVAL REQUIREMENTS.**

- Handle with care.
- Poisonous when absorbed through the skin or swallowed or inhaled.
- Toxic to fish and wildlife.
- Store under lock and key in cool, dry and well-ventilated place.
- Store away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep locked up, out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated field within 1 day after application unless wearing protective clothing.
- **In case of poisoning call a doctor and make this label available to him/her.**

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label, the occurrence of resistance of the pest against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.**

**PRECAUTIONS**

- Avoid direct contact with the granules as well as inhalation of the dust.
- Wear protective clothing such as overalls, rubber boots, rubber gloves and a suitable respirator.
- Wash with soap and water after use or accidental skin contact.
- Do not eat, drink or smoke during application or before washing hands and face.

- Keep unprotected persons away from operating area.
- Prevent contamination onto other crops, grazing, rivers, dams and areas not under treatment or nearby water sources.
- Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the application hopper before destroying the empty container.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

### **SYMPTOMS OF HUMAN POISONING**

Headache, fatigue, faintness, giddiness, excessive sweating, nausea, abdominal pains, vomiting, diarrhoea, tightness of the chest, anxiety, blurred vision, muscle twitching beginning in the eyelids and tongue, small pupils, respiratory distress, convulsions, coma.

### **FIRST AID TREATMENT**

#### Skin contact:

- Wash off thoroughly with plenty of soap and water, if available with Polyethyleneglycol 400, subsequently rinse with water. Do not rub skin. If symptoms persist, call a physician.

#### Eye contact:

- Immediately flush contaminated eyes for 15 to 20 minutes with clean cold water, while occasionally lifting upper and lower lids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Obtain medical advice if irritation persists.

#### Inhalation:

- Move to fresh air. Keep patient warm and at rest. Give oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

#### Ingestion:

- Have victim rinse mouth thoroughly with clean water.
- Gastric lavage should be considered in cases of significant ingestions within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.
- Induce vomiting only, if:
  1. Patient is fully conscious,
  2. Medical aid is not readily available,
  3. A significant amount (more than a mouthful) has been ingested and,
  4. Time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.)
- Repeat until vomit fluid is clear and free from smell of poison.
- **TAKE THE PATIENT IMMEDIATELY TO THE NEAREST PHYSICIAN.**
- Administer artificial respiration or closed chest cardiac massage if necessary.
- **Do not** apply mouth to mouth respiration. Never give anything by mouth to an unconscious person.

### **NOTE TO PHYSICIAN**

Administer atropine sulphate intravenously (1 to 4 mg) every 5 to 10 minutes until signs of atropinization (dry flushed skin and tachycardia). Give 2-PAM 50 mg / kg up to total dose of 1 to 2 g or 66 % of this dose of Protopam. Repeat oximes if necessary. Do not give morphine.

The following antidotes are generally accepted: atropin and oximes.

### **RESISTANCE WARNING**

**NEMACUR® 100 GR** is a group code 1B insecticide. Any insect population may contain individuals naturally resistant to **NEMACUR® 100 GR** and other group code 1B insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **NEMACUR® 100 GR** or any other group code 1B insecticide.

To delay insecticide resistance:

- avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes,
- integrate other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

**DIRECTIONS FOR USE: Use only as directed.****Compatibility:**

- **NEMACUR® 100 GR** must not be mixed and applied simultaneously with fertilizer from a single granule applicator.

**Application:**

- An accurate, properly calibrated granule applicator must be used. Downpipes from the applicator into the seeding furrow should be set at a sufficiently steep angle, to ensure even flow of granules. Regular checks are advised to prevent blockages. Ensure an even distribution of the granules.
- As with all soil applied insecticides, sufficient moisture is necessary for the release of the active ingredient.
- **NEMACUR® 100 GR** has not been tested for its effect on *Globedera rostochensis* and *Meloidogyne chitwoodi*. Its use is therefore not recommended for the control of these nematode species.

**Citrus:**

- For plant densities of more than 300 trees per hectare the maximum application rate per tree becomes proportionately less so as not to exceed the maximum application rate of 120 kg **NEMACUR® 100 GR** per hectare or 400 g per tree. Refer Table below.

**Table 1:** Application rate in gram **NEMACUR® 100 GR** per m<sup>2</sup> basin area.

Trees per hectare	Basin area				
	4m <sup>2</sup>	6 m <sup>2</sup>	8 m <sup>2</sup>	10 m <sup>2</sup>	12 m <sup>2</sup>
200	40	40	40	40	33
250	40	40	40	40	33
300	40	40	40	40	33
350	40	40	40	34	28
400	40	40	37	30	25
450	40	40	33	26	22
500	40	40	30	24	20
550	40	36	27	21	18

**APPLICATION RATES**

Crop / Pest	Rate of Application	Remarks
<b>Bananas</b> Nematodes	50 g / mat (Twice annually)  30 g / mat (Twice annually)  Under known low nematode infestation	Apply <b>NEMACUR® 100 GR</b> to a weed free and trash free soil surface of 1 m <sup>2</sup> around selected pseudostem. Incorporate granules immediately into the top layer of the soil preferably by sprinkler irrigation. In case of mechanical incorporation avoid root damage. Avoid washing the chemical away whilst still on the soil surface with excess irrigation water. Commence application at planting or in the case of established plantations in August. <u>In all cases</u> one application should be made in August followed five months later by a second application in January. If the first follow-up application (August or January) is within five months after planting, this application should be omitted. Applications are to be repeated annually in August and January.
<b>Cotton</b> Nematodes	150 g / 100 linear m in furrow at planting	Will also control early infestations of Thrips and Jassids. Ensure that the granule applicator is properly calibrated and that the stream of granules into the furrow is regular at all times and covered with soil.
<b>Ginger</b> Nematodes	1.0 kg / 100 linear m in furrow at planting	Apply the granules in the furrow at planting.
<b>Groundnuts</b> Pod nematode (Ditylenchus destructor)	150 g / 100 linear m in furrow at planting	<b>Drylands:</b> Apply the granules in the furrow at planting. Sufficient rainfall is necessary for optimal efficacy of <b>NEMACUR® 100 GR</b> .

<b>Crop / Pest</b>	<b>Rate of Application</b>	<b>Remarks</b>
<b>Citrus</b> Nematodes <b>Young trees</b> (non bearing)	40 g / m <sup>2</sup> basin area	Apply the granules evenly to the soil surface in the tree basin area, after the trees have become established and repeat annually in Spring. Irrigate immediately after application with at least 25 mm water.
<b>Bearing trees</b> Excluding lemons and kumquats	<u>Initial Treatment</u> 18 to 40 g / m <sup>2</sup> basin area. Application rate depends on number of trees per hectare and size of basin area. (Refer Table 1)	Apply the granules evenly in Spring to the soil surface in the tree basin area. Irrigate immediately after application with at least 25 mm water.
	<u>Maintenance Treatment</u> 20 g / m <sup>2</sup> basin area	Apply the following season in Spring as indicated above. Thereafter repeat annually.
<b>Do not exceed 120 kg per hectare or 400 g per tree. Refer "DIRECTIONS FOR USE" above.</b>		
<b>Guavas &amp; Litchi's</b> Nematodes	<u>Initial treatment</u> 30 g / m <sup>2</sup> basin area	Apply the granules evenly in Spring, to the soil surface in the tree basin area. Irrigate immediately after application with at least 25 mm water.
	<u>Follow-up treatment</u> 15 g / m <sup>2</sup> basin area	Apply annually in Spring as indicated above.
<b>Papayas</b> Nematodes	Apply evenly to the soil surface in the plant basin at a rate of 40 g / m <sup>2</sup>	Apply in early Spring (August to October). Incorporate granules immediately into top layer of the soil either mechanically or by sprinkler irrigation. Avoid washing the chemical away by excessive irrigation.
<b>Pecan nuts</b> Nematodes	10 g / m <sup>2</sup> basin area	Apply the granules evenly, in Spring, to a trash free soil surface in the tree basin area. Irrigate immediately after application with at least 25 mm water.
<b>Tobacco</b> Root-knot nematodes	<u>Before transplanting</u> Soil fumigation	Fumigate soil with a registered soil fumigant.
	<u>After transplanting</u> 1.5 g / plant	Apply 3 weeks after transplanting to the base of the plant. Irrigate immediately after application to incorporate the <b>NEMACUR® 100 GR</b> .
<b>Tomatoes</b> Rootknot nematodes	Apply 10 g per linear metre in a 30 cm band over the planting row	<b>Pre-plant soil treatment</b> Incorporate the granules immediately into the top layer of the soil by sprinkler irrigation or by mechanical means. Plant tomatoes within 2 weeks of treatment.
<b>Vineyards</b> Nematodes	10 g / m <sup>2</sup> (1 kg / 100 m row)	Apply the granules in a 50 cm band on either side of the vine row on the bankie to a weed free surface, either as a Spring application 14 days before expected bud burst, or as an Autumn application directly after harvest. <b>NEMACUR® 100 GR</b> must be incorporated in the soil either by sufficient rain in order to wash the product into the soil or by irrigation. If at least 20 mm of rain has not fallen within 14 days of application, then incorporate by means of irrigation, applying 13 mm followed by a further 13 mm of water 10 days later.

**NEMACUR® 100 GR** is a registered trademark of / is 'n geregistreerde handelsmerk van  
**AMVAC CHEMICAL CORPORATION USA.**