

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



PROCAP 15 GR

Reg. No. L 9118 Act/Wet No. 36 of/van 1947

2-16/10/2013-June2017

A granular contact Nematicide for the control of Nematodes in potatoes, tobacco, citrus and certain vegetables as indicated.

'n Korrelvorm kontak Aalwurmdoder vir die beheer van aalwurms in aartappels, tabak, sitrus en sekere groente soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

ethoprophos (organophosphate) **150 g/kg** etoprofos (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

UN Number: 2783



**HARMFUL
SKADELIK**

Willow Set & Print 011 394-4486



GEBRUIKSAANWYSLINGS 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:

PROCAP 15 GR

Reg. No. L 9118 Act/Wet No. 36 of /van 1947

IRAC INSECTICIDE GROUP CODE / IRAC INSEKODER GROEPKODE: 1B

ACTIVE INGREDIENTS / AKTIEWE BESTANDELE:

ethoprophos (organophosphate) / etoprofos (organofosfaat).....150 g/kg

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

HARMFUL  **SKADELIK**

WARNINGS:**Withholding periods:**

Minimum number of days between last application and harvest:	
Potatoes	70 days
Baby marrows, Butternuts, Patti pans & Peas	105 days
Cabbages	106 days
Green beans	88 days
Lettuce & spinach	74 days

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, VILLA CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Handle with care.
- Poisonous if swallowed, inhaled or absorbed through the skin.
- May irritate eyes.
- Toxic to aquatic organisms, birds and wildlife.
- Harmful to humans and animals.
- Keep out of reach of children, animals and uninformed persons.
- Store under lock and key in a cool place away from food and feeds.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning, call a doctor and make this label available to him/her.**

Although PROCAP 15 GR is regarded as crop-safe on most important cultivars, this does not indicate that a more sensitive cultivar might not be commercialized in the future. Where a new cultivar is encountered, prior testing of PROCAP 15 GR should be done on that cultivar before large areas are treated commercially.

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 effected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other products 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

- Do not inhale the dust.
- Avoid contact with the skin.

- Wear protective clothing (rubber gloves, a face shield and rubber boots) when handling or applying the product.
- Wash contaminated clothing daily.
- Wash immediately with soap and water after use or accidental skin contact.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face.
- Prevent contamination of food, eating utensils, feeds and drinking water.
- Prevent contamination of other crops, grazing, rivers, dams or other areas not under treatment.
- Prevent run-off from treated areas, it may be harmful to aquatic organisms in adjacent areas.
- Keep all livestock out of treated areas for at least 4 weeks.
- **Ensure thorough incorporation of PROCAP 15 GR granules into the soil to minimize risk to birds and other animals.**
- Cultivate headlands to cover exposed granules.
- Empty application hopper completely after each day's use. Return all bags to a secure pesticide storeroom.
- Ensure hoppers are dry before filling. Shake out the bags thoroughly into the application hopper.
- Destroy empty bags by burying or burning them. When burning – do not inhale the smoke.
- **Do not** re-use the bags for any other purpose.

SYMPTOMS OF HUMAN POISONING

Nausea, vomiting, abdominal cramps, diarrhoea, excessive salivation, headache, giddiness, weakness, blurred vision, tearing, loss of muscular co-ordination, slurring of speech, twitching of muscles (especially of tongue and eyelids), mental confusion, disorientation, difficulty in breathing (chest tightness) and runny nose.

FIRST AID TREATMENT

ALWAYS OBTAIN TREATMENT BY A DOCTOR IMMEDIATELY.

- **Inhalation:** Remove the person from the source of poisoning and keep the person calm and reassured. If the patient is not breathing, commence with artificial respiration and provide oxygen or closed chest cardiac massage.
- **Skin contact:** Remove contaminated clothing immediately and rinse contaminated body area thoroughly with plenty cold water and non-scrubbing soap. Do not rub the skin. Emergency personnel should wear gloves and avoid contamination.
- **Eye contact:** Flush contamination out of eyes with clean lukewarm, gently flowing water for at least 15 minutes, while holding eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.
- **If swallowed:** If swallowed, drink 2 to 3 glasses of water and induce vomiting by tickling the back part of the throat. However, **do not** induce vomiting or give anything by mouth to an **unconscious person**. Vomiting may occur spontaneously. To prevent aspiration, position patient on his side with his head in a lower position than his waist. If vomiting while patient is conscious, give water to further dilute the chemical. Persons attending to the victim must avoid direct contact with heavily contaminated clothing and vomitus. Take the patient immediately to the nearest doctor or hospital, whichever is faster. **SHOW THIS LABEL TO THE DOCTOR.**

NOTE TO PHYSICIAN

PROCAP 15 GR is a cholinesterase inhibitor. Support respiration, measures should include the removal of secretions, maintenance of the patient's airway and if necessary, artificial ventilation. If cyanosis is absent, administer 2 to 4 mg atropine sulphate intravenously (0.05 mg/kg for children). Repeat atropine sulphate at 5 to 10 minute intervals until patient is fully atropinized (dry flushed skin, tachycardia, papillary dilation) and maintain for at least 48 hours. If cyanotic, give initial atropine sulphate dose intramuscularly and start measures to improve ventilation.

Administer reactivator, e.g. PROTOPAM, Ayerst (2-PAM) up to a total dose of 1 to 2 grams 2-PAM (20 to 40 mg/kg for children) in 100 cc saline over 15 to 30 minutes. A second dose may be given after one hour if muscle weakness persists. May be given by intramuscular or subcutaneous routes if intravenous administration is not feasible. In case of skin contact, wash the patient with soap and water followed by a wash with 95 % ethyl alcohol. Keep the patient under constant observation for 24 to 36 hours. Symptoms may persist for one month.

Theophylline, morphine, barbiturates, phenothiazines, reserpine and succinyl choline are contra-indicated.

RESISTANCE WARNING

PROCAP 15 GR is a group code 1B insecticide. Any insect population may contain individuals naturally resistant to **PROCAP 15 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 **PROCAP 15 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.

PRODUCT INFORMATION

- **PROCAP 15 GR** is a contact action nematicide.
- It is important to incorporate and mix the granules thoroughly with the soil to a depth of 15 to 25 cm using suitable equipment e.g., a tandem disc (at a speed of 8 km per hour) or a rotovator. Inadequate depth of incorporation will reduce pesticidal activity and may result in infestations on the lower roots and tubers.
- Sufficient levels of soil moisture during and after application are essential in order to activate the product and enhance distribution through the target area. The soil must be moist when **PROCAP 15 GR** is applied and incorporated. Rainfall or irrigation (20 mm) after incorporation will also assist with even distribution of the product. However, excessive rainfall/irrigation may result in the active ingredient leaching too quickly through the root zone resulting in Nematode damage.

USE RESTRICTIONS**General use restrictions on all crops:**

- Nematode infestation pressure is strongly influenced by various factors, especially soil type and the susceptibility of previous crops. The high rate is recommended for use in situations where a previous crop has been damaged by Nematodes and in high risk situations, e.g., irrigated crops on light sandy soils. Irrespective of treatment rate, severe losses may still occur.
- **PROCAP 15 GR** has been proven to provide effective control, however, its performance and persistence is strongly influenced by factors which the registration holder has no control over. Substantial Nematode damage may result under the following conditions: monocropping or rotation with Nematode susceptible crops, high Nematode infestations, soil type (e.g., very sandy soils or soils with high organic matter content), too little or excessive irrigation or rainfall, use of infested seed, etc. Irrespective of treatment rate, severe losses may still occur. For further information, consult your representative.
- **Do not** apply **PROCAP 15 GR** in soils with a pH of 9 or above, or where irrigation water has a pH of 9 or above.
- Only apply **PROCAP 15 GR** to soils that are free from trash, in good tilth, and weeds.
- **Do not** apply to soils that are difficult to cultivate.
- The effectiveness of **PROCAP 15 GR** on *Globedera rostochensis* and *Meloidogyne chitwoodi* is not known. It is thus not recommended for the control of these Nematode species.

POTATOES

(Also refer to notes above “General use restrictions on all crops”)

- **Do not** use **PROCAP 15 GR** on seed or chipping potatoes when any of the factors mentioned in first and second restrictions listed under “**General use restrictions on all crops**” above are suspected.
- Storing potatoes in the ground may result in a late Nematode infestation. Lift potatoes as early as possible after the full crop potential has been reached.

VEGETABLES

(Also refer to notes above “General use restrictions on all crops”)

- **NOTES**
Do not use PROCAP 15 GR on vegetables grown in glasshouses or tunnels.
Refer to the minimum withholding periods between application and harvest under “**WARNINGS**”.
- It is not possible for the registration holder to confirm the safety of **PROCAP 15 GR** on all vegetable cultivars, especially newly released cultivars. **PROCAP 15 GR**, when used as recommended, should be safe on the cultivars listed below. Take note whether seed or transplants are used.
 - Baby marrows (Caserta) - seeded
 - Butternuts (Ambassador) - seeded

- Cabbages (Conquestador, Glory of Enkhuizen) - transplanted
- Green beans (Contender, Paulista) - seeded
- Lettuce (Commander, Great Lakes 659) - transplanted
- Patti pans - seeded
- Peas (Puget) - seeded
- Spinach (Ford Hook Giant) and - seeded and transplanted
- Spinach (Viroflay) - transplanted
- During application ensure that no overlapping occurs. It is important that vegetable crops, especially sensitive crops such as lettuce and spinach, do not come into contact with **PROCAP 15 GR** at concentrations higher than those recommended.
- Use the higher dosage for vegetables with a long growing season.

DIRECTIONS FOR USE: Use only as directed.

- Assure even and uniform placement of the granules on the soil surface. Only apply **PROCAP 15 GR** with accurate and properly calibrated equipment (e.g. Microband).
- The **PROCAP 15 GR** granules must be incorporated into the soil directly after application.
- **All crops except citrus:**
It is important to incorporate and mix the granules thoroughly with the soil to a depth of 15 to 25 cm using suitable equipment e.g., a tandem disc (at a speed of 8 km per hour) or a rotovator. Inadequate depth of incorporation will reduce pesticidal activity and may result in infestations on the lower roots and tubers.
- **Citrus:**
The **PROCAP 15 GR** application must be preceded and immediately followed by irrigation, to ensure proper distribution of the **PROCAP 15 GR** active ingredient in the root zone.

APPLICATION RATES

Crop / Pest	Dosage rate / ha	Remarks
<u>CITRUS</u> Citrus nematode (<i>Tylenchulus</i> <i>semipenetrans</i>)	10 g/m ² drip area	Remove organic material from the soil surface before application. Apply PROCAP 15 GR evenly in the drip area of the tree at the start of Nematode activity during Spring. Apply mid-way through an irrigation cycle by first applying at least 10 mm of water, then apply the PROCAP 15 GR , followed immediately by another 10 mm of water. This practice will ensure proper distribution of PROCAP 15 GR active ingredient in the root zone.
<u>POTATOES</u> (Table potatoes) Nematodes	<u>Low Nematode infestation:</u> 35 kg <u>High Nematode infestation:</u> 50 kg	Apply a broadcast application of PROCAP 15 GR prior to planting or the formation of ridges and beds. Incorporate granules into the soil to a depth of 15 to 25 cm. Plant potatoes soon after application, but not later than one week after application. An additional Nematicide treatment is recommended in situations of high Nematode infestation pressure. Refer to “ USE RESTRICTIONS ” above.
<u>Potatoes</u> (Seed and chipping) Nematodes	50 kg	
<u>VEGETABLES</u> Baby marrows, Butternuts, Cabbages, Green beans, Lettuce, Patti pans, Peas & Spinach Nematodes	<u>Low Nematode infestation:</u> 35 kg <u>High Nematode infestation:</u> 50 kg	Apply a broadcast application of PROCAP 15 GR prior to planting or the formation of ridges and beds. Incorporate granules into the soil to a depth of 15 to 25 cm. Plant vegetables 10 to 14 days after application. An additional Nematicide treatment is recommended in situations of high Nematode infestation pressure. Refer to “ USE RESTRICTIONS ” above.

<i>Crop / Pest</i>	<i>Dosage rate / ha</i>	<i>Remarks</i>
<u>TOBACCO</u> (Irrigated) Root-knot Nematodes (<i>Meloidogyne</i> spp.)	50 kg	Apply PROCAP 15 GR prior to planting or the formation of ridges and beds as a broadcast application. Incorporate into the soil to a depth of 15 to 25 cm. The tobacco can be transplanted 3 to 7 days after application. An additional Nematicide treatment is recommended in situations of high Nematode infestation pressure. Refer to “ USE RESTRICTIONS ” above.