

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



TERBUFOS 15 GR

Reg. No. L 7186 Act/Wet No. 36 of/van 1947

1: 07/10/02 – May 2017

A contact and systemic granular insecticide and nematicide for the control of pests as indicated. A soil applied granule.

'n Kontak- en sistemiese korrel insekdoder en aalwurmdoder vir die beheer van plae soos aangedui. 'n Grondtoegediende korrel.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL
terbufos (organophosphate) **150 g/kg** terbufos (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



TOXIC
GIFTIG

Willow Set & Print 011 394-4486



GERUJKSAANWYSLINGS INGESLUIT

Date formulated: **VERWYS NA BESONDERHEDE**
Formuleringsdatum: **GEDRUK OP HOUER/SAK**

DIRECTIONS FOR USE ENCLOSED
Batch number: **REFER TO DETAILS PRINTED**
Lotnommer: **ON CONTAINER/BAG**

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Reg. No. L 7186 Act/Wet No. 36 of/van 1947

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ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:

terbufos (organophosphate / 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, KEMPTON PARK, 1620

Tel. (011) 396 2233

**TOXIC****GIFTIG****WARNINGS****Withholding periods:**

Minimum time that should lapse between the last application and harvest or feeding:	
Beans (Dry)	60 days
Citrus	30 days
Groundnut hay	No feeding or grazing
Groundnuts	90 days
Maize (Green)	60 days
Potatoes	90 days
Sorghum (Grain)	80 days
Sunflower (Seed)	90 days

TREATED CROPS MUST NOT BE GRAZED.**NOTE**

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 **TERBUFOS 15 GR** with extreme care.
- **Do not apply by hand, use an appropriate granular applicator.**
- Poisonous when absorbed through the skin or swallowed or inhaled.
- Toxic to fish, wildlife and birds.
- Store under lock and key in a cool, dry place, away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- **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, because the action and effect thereof may be effected by factors such as abnormal soil, climatic and storage conditions, compatibility with other substances not indicated on the label and the occurrence of resistance of the pests to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further 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 event of any uncertainty.

PRECAUTIONS

- Do not inhale the vapour or dust.
- Wear protective clothing, a suitable mask, rubber gloves and boots.
- Wash immediately with soap and water after use and after accidental contact with the granules.
- Wash all clothing worn during application thoroughly with soap and hot water, before re-use.

- Do not eat, drink or smoke whilst loading of the applicator, applying or before washing hands and face or change of clothing.
- Clean the applicator after use and dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- Invert the empty container/bag over the bucket of the applicator, to ensure that the container/bag is empty, before destroying and burying it.
- **Never** use the empty container/bag for any other purpose.
- Bury residues of the containers/bags and ensure that water suppliers are not contaminated and they are buried in an area where there will be no residue risk in crops or pastures.
- Bury any spillage of granules in a responsible manner.
- Wash the contaminated area thoroughly with a solution containing 500 g soda ash per 5 litres of water plus a water-soluble wetting agent.
- Prevent contamination of food, feeds, 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

- If poisoning is suspected: **CAUTION** - Persons that are attending to the patient, should avoid contact with heavily contaminated clothing and vomitus. Wear rubber gloves while washing the pesticide from the skin and hair.
- Remove the patient from the source of poisoning to a cool, well-ventilated area and keep him/her calm and reassured.
- In case of skin contact: Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water. Do not rub the skin.
- Eye contact: Flush contamination out of eyes with clean water for at least 15 minutes. Get medical attention immediately.
- If inhaled: If breathing is difficult give oxygen. **Get medical attention immediately.**
- If swallowed: Give the patient 2 glasses of water to drink and induce vomiting by tickling the back part of the throat. Repeat until the vomit fluid is clear and free from smell of poison. Keep the patient's airway clear, to maintain respiration, particularly when the patient is unconscious or has vomited. Support the jaw and place the patient in a face down position with the head down and turned to one side, with the tongue drawn forward. Administer artificial respiration or closed chest cardiac massage if necessary.
- **Do not** apply direct mouth-to-mouth respiration.
- **Never** give anything by mouth to an unconscious person.
- **Take the patient immediately to the nearest physician.**

NOTE TO PHYSICIAN

Administer atropine sulphate, intravenously (1 to 4 mg) every 5 to 10 minutes until signs of atropinisation (dry flushed skin, tachycardia, dilation of the pupils and pulse rate of over 120 per minute) occur. In any severe or progressive case of poisoning, administer pralidoxime (2-PAM, Protopam). An average dose is 1 g for an adult (up to 50 mg/kg for children). Repeat oximes if necessary. **Do not** give morphine and similar drugs. Avoid aminoglycosides and succinylcholine. Phenothiazines, reserpine and theophylline are contra-indicated.

RESISTANCE WARNING

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

DIRECTIONS FOR USE: Use only as directed.

- Apply **TERBUFOS 15 GR** only at planting time and ensure that the granules are covered with soil.

- Do not apply by hand; use an appropriate granular applicator, mounted to a tractor.
- Guidelines for Citrus:**
Only bearing trees can be treated with **TERBUFOS 15 GR**.
 Apply **TERBUFOS 15 GR** evenly to the soil in the drip zone of the trees and after application the area should be irrigated.
 Consult your representative or supplier in any event of uncertainty.

APPLICATION RATES

Crop / Pest	Dosage	Remarks
<u>Dry Beans and Groundnuts</u> Black maize beetles	33 g / 100 m plant furrow	<p>Apply only at planting as a preventive treatment. Apply the TERBUFOS 15 GR granules by means of a granular applicator, mounted on a planter directly in front of the planter press wheel, to give a band of not more than 5 cm wide. Cover the granules by means of an iron bar dragged behind the planter. The granules must not come into direct contact with the seed.</p> <p>Best results will be obtained when applied to moist soil.</p>
Nematodes (various spp.), Wireworm, False wireworm, <i>Astylus</i> beetle larvae & Rootworm	66 g / 100 m plant furrow	
<u>Maize</u> Black maize beetles	33 g / 100 m plant furrow	
Nematodes (various spp.), Wireworm, False wireworm, <i>Astylus</i> beetle larvae & Rootworm	66 g / 100 m plant furrow	
<u>Sorghum & Sunflowers</u> Black maize beetles	33 g / 100 m plant furrow	
<u>Sunflowers</u> Nematodes (various spp.), Wireworm, False wireworm, <i>Astylus</i> beetle larvae & Rootworm	66 g / 100 m plant furrow	
<u>Potatoes</u> Black maize beetles	66 g / 100 m plant furrow	<p>Apply only at planting as a preventive treatment. The seed potatoes must be covered with a 5 to 7 cm layer of soil, before applying TERBUFOS 15 GR granules in the furrow. Apply the granules in a band of approximately 15 cm wide.</p> <p>Best results will be obtained when applied to moist soil. Black maize beetles will only be controlled for a limited period. Control by means of a suitable insecticide may be necessary during the later growth stages of the potatoes.</p>

Crop / Pest	Dosage	Remarks
<u>Citrus</u> Nematodes		<p>Only bearing trees can be treated with TERBUFOS 15 GR. Do not apply by hand; use an appropriate granular applicator, mounted to a tractor. Apply TERBUFOS 15 GR evenly to the soil in the drip zone of the trees and after application the area should be irrigated.</p>
	27 g / m ²	<p><u>Single Treatment:</u> Apply only one treatment after the fruit has been picked, in spring.</p>
	<p>OR <u>First treatment:</u> 13.5 g / m² <u>Second treatment:</u> 7 g / m²</p>	<p>OR <u>Split Treatment:</u> Apply two treatments. Apply the first treatment in spring and the second treatment in mid-summer. Do not apply the second mid-summer treatment after 15 December.</p>
	<p><u>Optional treatment:</u> 13.5 g / m²</p>	<p><u>Autumn application:</u> An additional treatment can be applied in autumn. However, do not apply this treatment before 1 April.</p>

PLEASE NOTE

Nematodes controlled exclude *Meloidogyne chitwoodii* and *M. fallax*.