



The miracles of science™

VYDATE® 100 GR

Reg. No. L3945 Act No. 36 of 1947

Reg. Nr. L3945 Wet Nr. 36 van 1947

A granular remedy for the protection of potatoes, tobacco, tomatoes, bananas and sugarcane against plant parasitic nematode species as listed and the reduction of aphids in potatoes.

'n Middel in korrelvorm vir die beskerming van aartappels, tabak, tamaties, piesangs en suikerriet teen plantparasitiese aalwurm spesies soos aangedui en vir die vermindering van plantluise in aartappels.

INSECTICIDE GROUP CODE	1A	INSEKDODER GROEP KODE
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ACTIVE INGREDIENT

Oxamyl (carbamate)100 g/kg....

AKTIEWE BESTANDDEEL

Oksamil (karbamaat)

Nett Mass

10 kg

Netto Massa

REGISTERED BY / GEREGISTREER DEUR:

DUPONT DE NEMOURS SOUTH AFRICA (PTY) LTD
Co. Reg. No. 2009/014079/07
P O BOX / POSBUS 3332
HALFWAY HOUSE 1685
Tel: (011) 218-8600

**UN No. /
VN Nr.
2757**

**24 HOUR/UUR EMERGENCY
NUMBER/ NOODNOMMER:
083 123 3911**

**HARMFUL
SKADELIK**

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WARNINGS:

• **THE FOLLOWING MINIMUM NUMBER OF DAYS MUST BE ALLOWED BETWEEN LAST APPLICATION AND HARVEST:**

- | | | |
|------------|-------|----------|
| Potatoes | | 30 Days |
| Tobacco | | 42 Days |
| Tomatoes | | 21 Days |
| Sugar Cane | | 120 Days |

- Handle with extreme care.
- Poisonous by swallowing, inhalation and skin contact.
- Toxic to fish, bees and wildlife.
- Store under lock and key in a cool place.
- Store away from food and feeds.
- Keep out of reach of children, uninformed persons and animals.
- RE-ENTRY: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

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 affected 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 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 dust.
- Wear full protective clothing (overalls, rubber boots, gloves and suitable face mask).
- Wash contaminated clothing immediately after use.
- Wash thoroughly with soap and water immediately after use or accidental skin contact.
- Do not eat, drink or smoke whilst applying or before washing hands and face and change of clothing.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Clean applicator after use. Dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Containers and packages must be completely emptied before being disposed of.
- Shake out thoroughly into the application hopper before destroying the empty container.
- Destroy empty container by perforation and never use for any other purpose.

RESISTANCE WARNING

VYDATE® 100 GR is a group code 1A insecticide. Any insect population may contain individuals naturally resistant to **VYDATE® 100 GR** and other group code 1A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **VYDATE® 100 GR** or any other group code 1A 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 the control methods (chemical, cultural, biological) into insect control programmes.

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

SYMPTOMS OF HUMAN POISONING:

Headache, fatigue, faintness, giddiness, excessive sweating, nausea, abdominal pains, vomiting, blurred vision, muscle twitching, unusually small pupils, respiratory distress, coma.

ANTIDOTE: Atropine sulphate – Refer to “NOTE TO PHYSICIAN OR VETERINARIAN”

FIRST AID TREATMENT:

1. Remove patient from source of poisoning (to a cool and well-ventilated area).
2. Keep patient quiet and reassured.
3. Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and water.
4. Do not rub skin.
5. Flush contamination out of eyes with clean water for at least 15 minutes.

If swallowed:

6. Drink 1 to 2 glasses of water and induce vomiting by tickling the back part of the throat.
7. Repeat until vomit is clear and free from the smell of poison.
8. Do not apply direct mouth-to-mouth respiration.
9. Never give anything by mouth to an unconscious person.
- 10. Take the patient to the nearest physician immediately.**

If inhaled:

11. Remove patient to fresh air.
12. If not breathing, give artificial respiration, preferably mouth-to-mouth.
- 13. Take the patient to the nearest physician immediately.**

NOTE TO PHYSICIAN OR VETERINARIAN:

VYDATE® 100 GR is an N-Methyl Carbamate Insecticide and Nematicide.

Administer atropine sulphate, intravenously (2-4 mg/adult) every 10 minutes until signs of atropinization (dry flushed skin and tachycardia) appears. Pralidoxime (2 PAM, Protopam) and other oximes are contraindicated for **VYDATE® 100 GR** exposure alone. However, for exposure to **VYDATE® 100 GR** and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulphate treatment. **Do not use morphine.**

DIRECTIONS FOR USE:

USE ONLY AS DIRECTED

When **VYDATE® SL** (Reg. No. L5057 Act No. 36 of 1947) is used as a follow-up treatment; optimal efficacy thereof will be obtained in water of pH 5-6. Water of pH higher than 7 should be buffered to pH 5-6. Only use phosphoric acid based acidifiers or buffers e.g. Bladbuff 5 (Reg. No. L3351 Act No. 36 of 1947). The use of acetic acid buffers are not recommended with **VYDATE® SL**. Use spray mixture without delay and do not allow to stand for prolonged periods. Soils with a high pH (i.e. alkaline) will result in reduced efficacy.

CROPS AND PESTS	DOSAGE	APPLICATION DIRECTIONS
BANANAS: Burrowing nematode <i>Radopholus similis</i> Root knot nematodes <i>Meloidogyne</i> species	20 g per mat	Apply during August-September and January-February. Remove debris and weeds around suckers and apply granules in a band 30-45 cm wide around each sucker (an area of approximately 1 m ²). Irrigate lightly after application.
POTATOES: Root knot nematodes <i>Meloidogyne</i> species (excluding <i>Meloidogyne chitwoodi</i> and <i>M. fallax</i>) and reduction of aphids.	Soil application: 350 g per 100 m furrow	<p>When the VYDATE® 100 GR and VYDATE® SL nematode control programme is to be used on seed potatoes or if excessively high root knot nematode pressure is present and in potato production areas listed under IMPORTANT: NOTES APPLICABLE TO ROOT KNOT NEMATODE CONTROL WITH VYDATE® 100 GR & VYDATE® SL IN POTATOES, note 2, the soil must be fumigated pre-plant with a registered soil fumigant for nematode control (as indicated on the label of the fumigant) before the VYDATE® 100 GR and VYDATE® SL programme is followed. (Refer IMPORTANT: NOTES APPLICABLE TO ROOT KNOT NEMATODE CONTROL IN POTATOES WITH VYDATE® 100 GR & VYDATE® SL, notes 2 & 4 for details).</p> <p>Soil application: Apply VYDATE® 100 GR only to moist soil. Apply VYDATE® 100 GR into planting furrow before closing.</p> <p>Foliar application:</p> <ul style="list-style-type: none"> Follow up the VYDATE® 100 GR soil treatment with three foliar sprays of VYDATE® SL at spraying intervals of four weeks. The first VYDATE® SL foliar application should be applied at a dosage rate of 3 l per ha three to four weeks, the second at 4 l per ha seven to eight weeks and the third at 5 l per ha eleven to twelve weeks after plant-emergence. This spray programme will also reduce aphids. If the spray water has a pH of above 7, it should be buffered to pH 5-6 with Bladbuff 5. However do not add any other adjuvant types to the VYDATE® SL spray solution. Allow 30 days between last application and harvest. <p>IMPORTANT: REFER TO NOTES APPLICABLE TO THE CONTROL OF ROOT KNOT NEMATODES IN POTATOES WITH VYDATE® 100 GR & VYDATE® SL PROGRAMMES</p>

IMPORTANT: NOTES APPLICABLE TO ROOT KNOT NEMATODE CONTROL WITH VYDATE® 100 GR FOLLOWED BY VYDATE® SL SPRAY PROGRAMME IN POTATOES:

- The nematicidal, systemic and / or residual activity of **VYDATE® 100 GR & VYDATE® SL** is strongly influenced by factors beyond the manufacturer's control, for example ineffective and / or too shallow fumigation of the soil prior to planting (where applicable - refer to point 2), soil type (very sandy soils that leaches easily), high soil pH, or stress conditions (especially drought) on the crop. Some root knot nematode damage in potatoes must be expected under the above-mentioned conditions, or when nematode infested seed tubers are planted.
- For potato plantings in the Northern Cape and North West Provinces (Prieska, Hopetown, Douglas, P.K. le Roux Dam irrigation areas, Vaalharts irrigation area, Barkly West, Christiana, Vryburg, Coetzersdam and Tosca) **the soil must be fumigated** prior to applying **VYDATE® 100 GR**.
- If potatoes are left in the soil for longer than **30 days** after the final **VYDATE® SL** application, serious tuber damage may occur due to re-infestation of root knot nematodes. This is due to the absence of **VYDATE® SL** in the soil or roots at this stage.
- If excessively high root knot nematode levels are present in the soil due to a combination of above-mentioned factors and / or when abnormal cultural practices are followed, e.g. the continuous planting of nematode susceptible crops on the same fields, severe losses due to root knot nematode damage may occur in spite of the chemical control measures applied. Under these conditions, **VYDATE® 100 GR** and **VYDATE® SL** programmes should not be used for root knot nematode control in potatoes, not even in combination with other nematicides and especially not when chipping potatoes are cultivated.

<p>SUGARCANE: Plant & Ratoon crops Root knot nematodes (<i>Meloidogyne</i> species) Lesion nematodes (<i>Pratylenchus</i> species) Spiral nematodes (<i>Rotylenchus</i> species) Ring nematodes (<i>Criconeema</i> species)</p>	<p>Soil application: 30 kg per ha (for 1,2 m rows) or 360 g per 100 m of planting furrow</p>	<p>In Plant cane: Place the VYDATE® 100 GR granules in the furrow with the cuttings (sets) at planting with the use of a mechanical granular applicator. Cover both with soil. DO NOT apply VYDATE® 100 GR and lime together in the furrow. Preferably broadcast lime during land preparation. If lime is to be applied directly in the plant furrow, band apply the VYDATE® 100 GR on the soil surface on both sides of, or over the plant rows SOON AFTER LEAF EMERGENCE. In Ratoon Cane: Band apply the VYDATE® 100 GR on the soil surface on both sides of, or over the plant rows after cutting up to SHOOT EMERGENCE. DO NOT apply VYDATE® 100 GR and lime together or within the same season to the soil surface under any circumstances. Use VYDATE® 100 GR only on soils with less than 15 % clay. Allow a period of 120 days between application and harvest.</p>
<p>TOBACCO: Root knot nematodes <i>Meloidogyne</i> species (excluding <i>Meloidogyne</i> <i>chitwoodi</i> and <i>M. fallax</i>)</p>	<p>Soil application: 250 g per 100 m planting furrow</p> <p>Plant station application: apply 1,25 g per plant</p>	<p>Soil application: Apply VYDATE® 100 GR only to moist soil. Apply VYDATE® 100 GR at planting time in the planting furrow. Foliar application: Follow the VYDATE® 100 GR soil treatment up with one foliar application (if the soil was properly fumigated before planting or where light nematode infestation normally occurs) with VYDATE® SL, using 800 ml per 100 l water at 500 l spray mixture per ha (4 l VYDATE® SL per ha), 4-5 weeks after planting. If no fumigant was applied prior to planting or if the soil was fumigated post harvest the previous season or when severe nematode infestation may occur, follow the soil treatment up with two VYDATE® SL foliar applications using 800 ml per 100 l water two weeks after planting at 250 l spray mixture per ha (2 l VYDATE® SL per ha) and repeat 3 weeks later at 500 l mixture (4 l VYDATE® SL per ha), per ha. If the spray water has a pH of above 7, it should be buffered to a pH of 5-6 with Bladbuff 5. However, do not add any other adjuvant types to the VYDATE® SL spray solution. Allow 42 days between last application and harvest. Apply VYDATE® 100 GR granules into the planting hole using an appropriate measuring spoon. Mix the VYDATE® 100 GR granules thoroughly into the planting hole soil, add the planting water and plant the seedling afterwards. IMPORTANT: REFER TO NOTES APPLICABLE TO THE CONTROL OF ROOT KNOT NEMATODES IN TOBACCO AND TOMATOES WITH VYDATE® 100 GR AND VYDATE® SL</p>

<p>TOMATOES: Root knot nematodes <i>Meloidogyne</i> species (excluding <i>Meloidogyne chitwoodi</i> and <i>M. fallax</i>)</p>	<p>Soil application: 125 g per 100 m furrow</p> <p>Plant station application: apply 0,75 g per plant</p>	<p>Soil application:</p> <ul style="list-style-type: none"> • Only apply VYDATE® 100 GR to moist soil. • Apply either into the planting furrow or in a 20 cm wide band over the planting furrow and incorporate into the soil. <p>Foliar application: Follow up the VYDATE® 100 GR soil treatment with 2 or more foliar sprays of VYDATE® SL using 800 ml per 100 l water at two weeks after transplanting at 250 l spray mixture per ha (2 l VYDATE® SL per ha) and repeat 3 weeks later at 500 l mixture (4 l VYDATE® SL per ha), per ha.</p> <p>If the spray water has a pH of above 7, it should be buffered to a pH of 5-6 with Bladbuff 5 (Reg. No. L3351, Act No. 36 of 1947). However do not add any other adjuvant types to the VYDATE® SL spray solution.</p> <p>Allow 21 days between last application and harvest.</p> <p>Apply VYDATE® 100 GR granules into the planting hole using an appropriate measuring spoon. Mix granules thoroughly into the soil, add the planting water and plant the seedling afterwards.</p> <p>IMPORTANT: REFER TO NOTES APPLICABLE TO THE CONTROL OF ROOT KNOT NEMATODES IN TOBACCO AND TOMATOES WITH VYDATE® 100 GR AND VYDATE® SL</p>
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IMPORTANT: NOTES APPLICABLE TO ROOT KNOT NEMATODE CONTROL WITH VYDATE® SL IN TOBACCO AND TOMATOES:

1. The nematicidal, systemic and/or residual activity of **VYDATE® 100 GR** and **VYDATE® SL** are strongly influenced by factors beyond the manufacturer's control for example ineffective and/or too shallow fumigation of the soil prior to planting (where applicable - refer to note 3), soil type (very sandy soils that leaches easily), high soil pH, or stress conditions (especially drought) on the crop. Some root knot nematode damage in tobacco and tomatoes must be expected under above-mentioned conditions.
2. If excessively high root knot nematode levels are present in the soil due to a combination of the above-mentioned factors and/or when abnormal cultivating practices are followed, e.g. the continuous planting of nematode susceptible crops on the same fields, crop losses due to root knot nematode damage may occur in spite of the chemical control measures applied. If last-mentioned factors occur the desired control of root knot nematodes may not be achieved with **VYDATE® 100 GR & VYDATE® SL** programmes in tobacco and tomatoes, not even when used in combination with other nematicides.
3. Under above-mentioned conditions, the fumigation of the soil with a registered fumigant prior to the application of **VYDATE® 100 GR** is recommended.
4. Since tobacco and tomatoes are sensitive crops and varieties may differ in their sensitivity towards crop protection products, it is recommended that only a portion of a field is treated with **VYDATE® 100 GR** the first time the product is used in order to determine if any negative effects occur on the crop or specific variety. A certain amount of leaf scorching may occur under certain conditions on seedlings produced in seed trays, which are of a temporary nature and should not affect yield. In order to minimize the risk of leaf scorching the **VYDATE® 100 GR** should be thoroughly incorporated into the soil before the seedling is planted.

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