



The miracles of science™

VYDATE® SL

Reg. No. L5057 Act No. 36 of 1947

Reg. Nr. L5057 Wet Nr. 36 van 1947

A water soluble liquid insect- and nematicide for the protection of groundnuts, peaches, nectarines, plums, potatoes, pineapples, sugarcane, tobacco and tomatoes against plant parasitic nematode species as listed and for the control of potato leaf miner and the reduction of aphids in potatoes and thrips in sugarcane and onions and snails in grapevines.

'n Wateroplosbare vloeistof insek- en aalwurmdoder vir die beskerming van grondbone, perskes, nektarines, pruime, aartappels, pynappels, suikerriet, tabak en tamaties teen plantparasitiese aalwurm spesies soos aangedui en vir die beheer van aartappelbladmyner asook as die vermindering van plantluise in aartappels en blaaspootjies in suikerriet en uie en slakke in wingerde.

INSECTICIDE GROUP CODE 1A INSEKDODER GROEP KODE

ACTIVE INGREDIENT

Oxamyl (carbamate)

....310 g/litre....

AKTIEWE BESTANDDEEL

Oksamil (karbamaat)

Nett volume

5 litres

Netto volume

REGISTERED BY / GEREGISTREER DEUR:

DUPONT DE NEMOURS SOUTH AFRICA (PTY) LTD
Co. Reg. No. 2009/014079/07
P. O. BOX / POSBUS 3332
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24 HOUR/UUR EMERGENCY
NUMBER/ NOODNOMMER:
083 123 3911

UN No. / VN Nr. 2991



UITERS GIFTIG
VERY TOXIC



WARNINGS:

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

Chives	35	Plums	28
Groundnuts	80	Potatoes	30
Onions	35	Sugarcane	120
Peaches (including nectarines)	28	Tobacco	42
Pineapples	120	Tomatoes	21

- 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.
- RE-ENTRY: Do not enter treated area within 2 days after treatment unless wearing protective clothing.
- Keep out of reach of children, uninformed persons and animals.
- In case of poisoning, **CALL A DOCTOR / VETERINARIAN IMMEDIATELY AND MAKE THIS LABEL AVAILABLE TO HIM.**
- Do not apply **VYDATE® SL** as an aerial application.

NOTE: The maximum residue limits (MRLs) for oxamyl, as set for South Africa, will not be exceeded should label instructions and withholding periods i.e. the minimum number of days between last application and harvest be followed. However, export MRLs may not be met and crops treated with VYDATE® SL may not be accepted for export. If crop is destined for the export market consult the export agency concerned prior to the use VYDATE® SL.

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, quality of dilution water, 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 fumes or spray mist.
- Prevent contact with skin.
- Wear full protective clothing (overalls, rubber boots, gloves and suitable respirator).
- 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 mixing or applying or before washing hands and face and change of clothing.
- Prevent contamination of foods, feeds, drinking water and eating utensils.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator thoroughly after use. Dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Triple rinse empty container in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for 30 seconds after the flow has slowed down to a drip. Thereafter rinse the empty container three times with a volume of water equal to minimum of 10% of that of the container before destroying the container in the prescribed manner.
- Destroy empty container by perforation and flattening and never re-use for any other purpose.

RESISTANCE WARNING

VYDATE® SL is a group code 1A insecticide. Any insect population may contain individuals naturally resistant to **VYDATE® SL** 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® SL** 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 cold water.
4. Do not rub skin.
5. Flush contamination out of eyes with clean water for about 15 minutes.

If swallowed:

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

If inhaled:

1. Remove victim to fresh air.
2. If not breathing, give artificial respiration, preferably mouth-to-mouth.
3. **Take the patient to the nearest physician immediately.**

NOTE TO PHYSICIAN OR VETERINARIAN:

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

Administer Atropine sulphate, intravenously (1,2-2,0 mg/adult) every 10-30 minutes until signs of atropinization (dry flushed skin and tachycardia) appear. Maintain atropinization until the patient recovers. Pralidoxime (2 PAM, Protopam) and other oximes are contra indicated for **VYDATE® SL** exposure alone. However, for exposure to **VYDATE® SL** and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. **Do not use morphine.**

DE-ACTIVATION OF VYDATE® SL SOLUTION:

After use, add 2,5 kg of sodium carbonate per 100 litres **VYDATE® SL** spray solution still in the tank to deactivate excess oxamyl.

DIRECTIONS FOR USE:

USE ONLY AS DIRECTED

Optimal efficacy of **VYDATE® SL** 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 7 (Reg. Nr. L8121 Act No. 36 of 1947) or Bladbuff 12 (Reg. Nr. L8201 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.

Optimal systemic activity of **VYDATE® SL** depends on translocation of the active ingredients inside the treated plant. Therefore reduced efficacy may occur when stress factors such as drought impairs translocation.

CROP AND PEST	DOSAGE	APPLICATION DIRECTIONS
<p>GRAPEVINES: Snails (Brown snail, <i>Helix aspersa</i> and dune snail, <i>Theba pisana</i>)</p>	<p>Dormant spray: 2,5 litres per ha</p>	<p>Apply as a single dormant spray to vines before bud burst when snails are first noticed. For optimum efficacy apply VYDATE® SL early in the morning or under cool, overcast conditions when snails are active.</p> <p>Apply as a directed spray in 200 – 500 litres water per ha.</p> <p>If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution.</p> <p>NB. Prior to application of VYDATE® SL drive out or remove birds (e.g. ducks, etc.) mammals and other wild life (e.g. tortoises) from the area where VYDATE® SL will be applied.</p>
<p>ONIONS AND CHIVES: Thrips (<i>Thrips tabaci</i>)</p>	<p>Foliar application: 3 litres per ha</p>	<p>Apply preventively or early correctively at first signs of the adult and/or nymphal stages in 500 – 700 litres water per ha at spray intervals of 7 to a maximum of 14 days. Use the shorter spray interval of 7 days when VYDATE® SL is applied early correctively, under favourable environmental conditions for pest development or under high infestation levels of thrips. Do not exceed a maximum of 4 VYDATE® SL applications per planting.</p> <p>Apply VYDATE® SL as part of a spray programme consisting of at least two consecutive applications (= block application). Alternate the VYDATE® SL block applications with registered thripicides with a different mode of action.</p> <p>The VYDATE® SL applications indicated above will reduce thrip numbers by 60 – 90 % taking into consideration the crops stage, crop growth conditions, pest infestation levels and prevailing environmental conditions.</p> <p>If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution.</p> <p>Allow 35 days between last application and harvest.</p>

CROP AND PEST	DOSAGE	APPLICATION DIRECTIONS
<p>POTATOES: Root knot nematodes (<i>Meloidogyne</i> species excluding <i>M. eloidogyne chitwoodi</i> and <i>M. fallax</i>) and reduction of aphids.</p>	<p>Soil application: VYDATE® 100 GR 350 g per 100 m furrow</p> <p>Foliar application: 3-5 l per ha</p>	<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>Apply VYDATE® 100 GR only to moist soil. Apply VYDATE® 100 GR into planting furrow before closing.</p> <ul style="list-style-type: none"> Follow the VYDATE® 100 GR soil treatment up 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 7 or Bladbuff 12. 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>
<p>Potato leaf miner (<i>Liriomyza huidobrensis</i>)</p>	<p>Foliar application: 3 litres per ha</p>	<p>Apply in 400-600 litres water per ha ensuring thorough coverage of the foliage. Apply in a programme commencing application at the first sign of infestation on the leaves and repeat at 7-14 day intervals. Use the shorter interval under conditions of continuous high infestation. It is recommended that a minimum of 2 consecutive applications (= block applications) of VYDATE® SL be used, whereafter it is alternated with insecticides with a different mode of action if needed. Do not exceed 3 applications per season or a maximum of 12 litres of VYDATE® SL per ha per season. Refer also to above instructions regarding root knot nematode control. If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution. Allow 30 days between last application and harvest.</p>

IMPORTANT: NOTES APPLICABLE TO ROOT KNOT NEMATODE CONTROL WITH VYDATE® 100 GR & VYDATE® SL IN POTATOES:

1. The nematicidal, systemic and/or residual activity of **VYDATE® 100 GR & VYDATE® SL** is strongly influenced by factors beyond the registration holder'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, light 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 above-mentioned conditions, or when nematode infested seed tubers are planted.
2. 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**.
3. 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.
4. 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 with **VYDATE® 100 GR** and **VYDATE® SL**.

CROP AND PEST	DOSAGE	APPLICATION DIRECTIONS
<p>GROUNDNUTS: Groundnut pod nematode (<i>Ditylenchus destructor</i>)</p>	<p>Foliar application: 1,2 litres per 100 litres water</p>	<p>Apply in at least 250 litres water per ha as a foliar spray at the commencement of peg formation (CV Sellie approximately 60 days after planting). Ensure thorough wetting of the foliage. If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution. Allow a period of 80 days between application and harvest.</p>
<p>PEACHES (including NECTARINES) and PLUMS: Ring nematodes (<i>Criconeema</i> spp.) Lesion nematodes (<i>Pratylenchus</i> species) Stubby root nematodes (<i>Paratrichodorus</i> species.)</p>	<p>Soil application: 1,2 ml per m²</p>	<p>Apply to soil in spring after petal drop during the early fruit set stage. A follow-up application is suggested within one to two months after harvest under conditions of high nematode infestation. Apply with a suitable sprayer under the trees in the drip zone. Apply in a suitable quantity of water so as to ensure even coverage of the surface area (use in 0,5 to 2,5 litres water per sq meter). VYDATE® SL must be applied to soil that is at field capacity. 10-15 mm of rain or irrigation is necessary within 5 days after application to ensure adequate movement of oxamyl into the root zone of trees. If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution. Allow a period of 28 days between application and harvest in case of spring application.</p>
<p>PINEAPPLES: Root knot nematodes (<i>Meloidogyne</i> species), Lesion nematodes (<i>Pratylenchus</i> species)</p>	<p>Foliar application:</p> <p>Plant crop: First application: 640 ml per 100 litres water</p> <p>Further applications: 320 ml per 100 litres water</p>	<p>Foliar application: Where heavy nematode (eelworm) infestation occurred on previous crops, fumigate soil with a registered fumigant before planting. Ensure that soil moisture is sufficient to sustain plant growth. For best results plants should be in a healthy condition.</p> <p>Direct spray nozzles on plant rows and ensure thorough wetting.</p> <p>Apply the first foliar application as soon as root formation commences at the rate of 500 litres spray solution per ha.</p> <p>Apply 5 more applications at intervals of 4 weeks and gradually increase the spray volume up to 1 000 litres per ha for mature plants.</p>

CROP AND PEST	DOSAGE	APPLICATION DIRECTIONS
<p>PINEAPPLES: Root knot nematodes (<i>Meloidogyne</i> species), Lesion nematodes (<i>Pratylenchus</i> species) (continued)</p>	<p>Ratoon crop: 320 ml per 100 litres water</p>	<p>Only recommended if previous crop was treated for nematode (eelworm). Commence spray programme immediately after plant crop harvest. Apply 6 foliar sprays at intervals of 4 weeks at a rate of 1 000 litres spray solution per ha.</p> <p>If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution. Allow a period of 120 days between last application and harvest in case of spring application.</p>
<p>TOBACCO: Root knot nematodes (<i>Meloidogyne</i> species excluding <i>M. chitwoodi</i> and <i>M. fallax</i>)</p>	<p>Seedbed:** 80 ml per 10 litre water</p> <p>Foliar application after transplanting: 800 ml per 100 litre water</p>	<p>Fumigate soil before planting with a registered fumigant. Implement the full recommended programme to ensure effective protection against nematode (eelworm) infestation.</p> <p>Drench the seedbeds 48-24 hours prior to transplanting with 2 litres of the spray solution per metre² of seedbed surface. Do not use the solution as transplant water or for dipping.</p> <p>Where no or inadequate control of nematodes occurred during the preceding planting season, or where severe nematode infestation may occur - apply 250 litres spray solution per ha as a foliar application 2 weeks after transplanting. Repeat after 3 weeks with 500 litres spray solution per ha.</p> <p>Where light nematode infestation normally occurs and where effective nematode control was applied during the preceding planting season - apply 500 litres spray solution per ha as a foliar application 5 weeks after transplanting.</p> <p>If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution.</p> <p>Allow 42 days between last application and harvest.</p> <p>IMPORTANT: REFER TO NOTES APPLICABLE ON THE CONTROL OF ROOT KNOT NEMATODES IN TOBACCO AND TOMATOES WITH VYDATE® SL.</p>

CROP AND PEST	DOSAGE	APPLICATION DIRECTIONS
<p>TOMATOES: Root knot nematodes (<i>Meloidogyne</i> species excluding <i>M. eloidogyne</i> <i>chitwoodi</i> and <i>M. fallax</i>)</p>	<p>Seedbed**: 40 mℓ per 10 litres water</p> <p>Seed trays**: 40 mℓ per 10 litres water</p> <p>Foliar application after transplanting: 800 mℓ per 100 litres water</p>	<p>Fumigate soil before planting with a registered fumigant. Implement the full programme to ensure effective protection against nematode (eelworm) infestation.</p> <p>Drench seedbeds 48-24 hours prior to transplanting with 2 litres of the spray solution per metre² of seedbed surface.</p> <p>Spray seedling trays 48-24 hours prior to transplanting with 0,5 litres of the spray mixture per metre² of the total seed tray surface.</p> <p>Apply 250 litres spray solution per ha as a foliar application 2 weeks after transplanting. Repeat after 3 weeks with 500 litres spray solution per ha.</p> <p>If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. 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>IMPORTANT: REFER TO NOTES APPLICABLE ON THE CONTROL OF ROOT KNOT NEMATODES IN TOBACCO AND TOMATOES WITH VYDATE® SL.</p>
<p>IMPORTANT: NOTES APPLICABLE TO ROOT KNOT NEMATODE CONTROL WITH VYDATE® SL IN TOBACCO AND TOMATOES:</p> <ol style="list-style-type: none"> 1. The nematicidal, systemic and/or residual activity of 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, 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, or when nematode infested seedlings are planted. 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 cultural practices e.g. the continuous planting of nematode susceptible crops on the same fields are followed, 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® SL in tobacco and tomatoes not even when used in combination with other nematicides. <p>** Soil of seedbeds or seed trays must be fumigated with a registered fumigant as usual against nematodes prior to sowing.</p>		

CROP AND PEST	DOSAGE	APPLICATION DIRECTIONS
<p>SUGARCANE: Ratoon crops only Root knot nematodes (<i>Meloidogyne</i> species), Lesion nematodes (<i>Pratylenchus</i> species)</p> <p>Plant and Ratoon crops: Reduction of thrips (<i>Fulmekiola serrata</i>)</p>	<p>Foliar application: 7,2 - 9,6 litres per ha in 300 litres water (86 - 115 ml in 3,6 litres water per 100 m linear row length at 1,2 m row spacing)</p> <p>Foliar application: 60 ml per 100 m linear row length in 2 to 2,5 litres water (5 litres per ha in 150-200 litres water based on a 1,2 m row spacing)</p>	<p>Spray VYDATE® SL solution onto the cane foliage by means of a knapsack or low pressure tractor mounted boom sprayer.</p> <p>Apply VYDATE® SL at the 6-8 leaf stage, usually at about 6-8 weeks after the previous harvest, provided good tillering has taken place. Winter cut fields may take longer to reach the 6-8 leaf stage.</p> <p>The use of VYDATE® SL is only recommended when plants are growing actively.</p> <p>Use the 9,6 litre per ha dosage rate in very weak sand (less than 5% clay) and in areas where high population of nematodes may occur.</p> <p>If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution.</p> <p>The application of VYDATE® SL according to the label instructions below results in a 60 to 90% reduction of thrips in sugarcane depending on the crop condition, pest infestation level and climatic conditions.</p> <p>Spray VYDATE® SL solution by means of a knapsack or low pressure tractor mounted boom sprayer as a foliar application with a single hollow or preferably full cone nozzle directed over each plant row.</p> <p>Apply VYDATE® SL as an early corrective application at first signs of thrips infestation or mottling between the 2 leaf but not later than the 6 leaf stage (at maximum plant height of 0,5m) of the crop.</p> <p>The application timing for VYDATE® SL is critical for the effective control of thrips. VYDATE® SL applied before the 2 leaf and later than the 8 leaf stage of the crop is significantly less effective against thrips.</p> <p>A follow-up VYDATE® SL application may be required 21 – 28 days after the first application based on scouting of live thrips under conditions of continues thrip re-infestation.</p> <p>If the spray water has a pH of above 7, it should be buffered at a pH of 5-6 with Bladbuff 7 or Bladbuff 12. However do not add any other adjuvant types to the VYDATE® SL spray solution.</p> <p>The use of VYDATE® SL is only recommended when plants are growing actively.</p> <p>Do not apply more than two VYDATE® SL applications per season against thrips.</p> <p>Do not exceed a maximum of 10 litres of VYDATE® SL per season in cane.</p> <p>Allow a period of 120 days between application and harvest.</p>

TRADEMARKS: Bladbuff 7 & Bladbuff 12 is registered trademarks of Plaaskem (Pty) Ltd