

DELEGATE™ 250 WG

INSECTICIDE

REG. NO. L8392 ACT No. 36 of 1947 / WET Nr. 36 van 1947
N-AR 1502

A WATER DISPERSIBLE GRANULE CONTACT AND STOMACH INSECTICIDE FOR THE CONTROL OF INSECTS ON AGRICULTURAL CROPS AS LISTED.	'N WATER DISPERGEERBARE KORREL, KONTAK- EN MAAGINSEKDODER VIR DIE BEHEER VAN INSEKPLAE IN LANBOUGEWASSE SOOS AANGEDUI.
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IRAC: INSECTICIDE GROUP CODE

5A

IRAC: INSEKDODER GROEP KODE

Active Ingredient/Aktiewe Bestanddeel

Spinetoram 250 g/kg Spinetoram

Net mass g Netto massa

REGISTRATION HOLDER / REGISTRASIEHOUER
DOW AGROSCIENCES SOUTHERN AFRICA (PTY) LTD / (EDMS) BPK
REG NO 1967/007147/07
Maxwell Office Park, Magwa Building, Ground Floor
Magwa Crescent, Waterfall City
MIDRAND, 1686 SOUTH AFRICA
TMTrademark of/Handelsmerk van Dow AgroSciences

Batch No. Lot Nr.

Date of Manufacture Datum van Vervaardiging

UN NO: 3077

Poisons Helpline: +27(0)861-555-777
Griffon Poison Information Centre: +27(0)82-446-8946
Local Emergency No: +27(0)82-895-0621 (SA only)
24 Hour Emergency Tel No: +32-3-575-5555
Information Hotline Tel No: +27(0)12 683-5700

DELEGATE™ 250 WG/2020-02-05



**CAUTION
VERSIGTIG**



WARNINGS

Withholding period - Minimum time between last application and harvest:

Apples	7 days
Apricots	7 days
Avocado's	7 days
Berries	7 days
Cruciferae (All)	21 days
Cherries	7 days
Citrus	7 days
Figs	7 days
Hops.....	3 days
Maize	21 days
Nectarines	7 days
Olives	14 days
Peaches	7 days
Pears	7 days
Persimmons	7 days
Plums	7 days
Pomegranates	7 days
Potatoes	3 days
Prunes	7 days
Rooibos tea	21 days
Sorghum	21 days
Table Grapes	3 days
Tomatoes	3 days
Tree nuts (Almonds, Cashews, Chestnuts, Hazelnuts, Macadamia nuts, Pecans, Pistachio nuts, Walnuts, Coconuts, Brazil nuts and Pine nuts)	7 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits. However, the import tolerances of other countries may differ and local residue limits and withholding periods may possibly not comply with those of other countries. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, Maximum Residue Limits and recommended withholding periods.

AERIAL APPLICATION: Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

- Handle with care.
- May cause slight eye irritation.
- Toxic to fish and toxic to aquatic invertebrates. Do not apply directly to open water.

- Beneficial Insects:
 - “Moderately Toxic to Bees”.
 - ❖ This product is toxic to bees when exposed to direct spray, or wet spray deposit.
 - ❖ Do not apply directly to foraging bees, or bee colonies.
 - ❖ Apply only during night to crops in flower or where other foraging vegetation is within 500 m from the spraying area.
 - ❖ Allow at least 3 hours between application and foraging period of bees.
 - ❖ **DELEGATE™ 250 WG** will not interfere with the activities of honey bees once the spray deposit has dried.
 - ❖ Studies conducted revealed no adverse affects on bee brood.

Co-ordinate in this regard with neighbours, beekeepers and local extension services when applying in the vicinity of crops in flower.

Parasitoids: “Slightly harmful”.

Predatory mites: “Harmless to slightly harmful to some species”.

Predatory beetles eg. Coccinellidae: “Relatively Harmless”.

Neuroptera: “Harmless”.

Lacewings Neuroptera: “Relatively Harmless”.

Predatory bugs: “Relatively Harmless”.

After spray deposit has dried **DELEGATE™ 250 WG** works mainly by ingestion. Contact effect on beneficial insects should therefore be of short duration.

- Store in a cool and dry place, away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.

Re-entry interval: Do not enter treated area until spray deposit has dried 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 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 use 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

Store in original labeled container, tightly closed and in a locked, dry, cool and well ventilated area, well away from foodstuffs.

Avoid inhalation of spray mist.

Wash with soap and water after use or accidental skin contact.

Wear gloves and face shield when handling.

Avoid contamination of skin and eyes. In case of accidental contact with eyes, wash with running water for at least 15 minutes. Get medical attention if irritation persists.

Do not eat, drink or smoke whilst mixing or applying.

Wash hands and face before eating, drinking, smoking or using the toilet.

Avoid spray drift onto adjacent crops, grazing, rivers and dams.

Clean all spray equipment before using for other remedies and dispose of wash water in area already sprayed where it will not contaminate crops, grazing, rivers, dams and water sources.

Invert the empty container for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse empty container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container by perforation, flattening and burying and do not use for any other purpose.

Prevent contamination of food, feedstuffs, drinking water and eating utensils by handling, storage or disposal.

AERIAL APPLICATION

Aerial application of **DELEGATE™ 250 WG** may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met;

- **Volume:** A spray mixture volume of 30 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 30 to 40 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 250 to 280 microns is recommended: Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomizing equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomizers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.

Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

DIRECTIONS FOR USE:

Use only as indicated

DELEGATE™ 250 WG is a water dispersible granule, which should be mixed with water and applied as a foliar spray with ground equipment equipped for conventional insecticide application. **DELEGATE™ 250 WG** works by both contact and ingestion activity. Exposed larvae stop feeding immediately but can take up to 3 days to mortality. Proper coverage of target area is important.

Insecticide Resistance Management (IRM)

The classification scheme of insecticides is based on “mode of action” **DELEGATE™ 250 WG** is classified as a spinosyn (IRAC subgroup 5) insecticide. Do not apply more than 4 (four) applications of **DELEGATE™ 250 WG** to any crop in any one season. Use insecticides from a different chemical group if more than four (4) applications are required.

Any insect population may contain individuals naturally resistant to **DELEGATE™ 250 WG** and other spinosyns. The resistant individuals will eventually dominate the insect population if these insecticides are used repeatedly over long periods or to consecutive generations. **DELEGATE™ 250 WG** or other spinosyn insecticides may not control these resistant insects. Local experts should be consulted for resistance strategies and specific recommendations. It is recognised that resistance of insects and mites to insecticides and acaricides can also result from enhanced metabolism, reduced penetration or behavioural changes that are not linked to any site of action classification but are specific for individual chemicals or chemical groupings. Despite this, alternation of compounds from different chemical classes remains a viable anti-resistance management technique.

To delay insecticide resistance

- Avoid the exclusive repeated use of insecticides from the same chemical subgroup.
- Do not use less than recommended label rates of any insecticides.
- Target applications preferably against early instar larvae and eggs of the pest whenever possible.

- Include proven cultural and biological control practices within an Integrated Pest Management Programme.

Integrated Pest Management (IPM) Programme:

DELEGATE™ 250 WG can be recommended for IPM programmes in various crops. **DELEGATE™ 250 WG** should be applied when field scouting/monitoring indicates target pest populations have reached the economic threshold. Other than reducing the target pest species as food source, **DELEGATE™ 250 WG** used under GAP, does not have a significant impact on certain, parasitic or predaceous insects and mites, including ladybirds, lacewings, assassin bugs, predatory mites, etc. Although **DELEGATE™ 250 WG** is classified as “harmful” to Parasitoids, field studies showed a rapid recovery of numbers after application.

If **DELEGATE™ 250 WG** is tank mixed with any insecticide that reduces its selectivity in preserving beneficial predatory insects, then the full benefit of **DELEGATE™ 250 WG** to the IPM programme may be reduced.

MIXING INSTRUCTIONS:

Mixing DELEGATE™ 250 WG alone:

Fill the spray tank with water to about half of the total spray volume required. Start agitation and add the required amount of **DELEGATE™ 250 WG** (Pre-mix with water before adding) to the spray tank. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

Compatibility, pH and tank mixing:

Do not apply **DELEGATE™ 250 WG** in muddy water. Although the pH of the spray mixture does not have an effect on the initial knockdown performance of **DELEGATE™ 250 WG**, a low pH value (< pH 5) of the spray mixture will decrease the residual performance. Buffer agents are generally not needed. Acidifiers or products that will acidify the spray mixture below pH 5 (e.g. phosphonates, high rates of foliar fertilizers, etc.) should be avoided or buffered back to pH 5 - 8. **DELEGATE™ 250 WG** will perform best at pH 5 - 8.

Compatibility may be influenced by the formulation of other products as well as the quality of spray water. If compatibility is unknown a physical compatibility test (jar test) using relative proportions of tank mix products should always be carried out prior to mixing in the spray tank. **DELEGATE™ 250 WG** is compatible with light to medium narrow range mineral oil on citrus. Refer to the mineral oil labels for directions regarding their use.

A compatibility test should be done for each different type of foliar fertilizer utilising the mixing water source. Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Back flow sparger pipe agitators, at the bottom of the spray tank, generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid mixing air into the spray mixture.

Mixing Sequence for Tank Mixes:

Fill the spray tank with water to approximately one quarter of the total spray volume required. Start agitation. Add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for water dispersible granule (dry flowable) (WG) products.

Add different formulation types in the following order:

1. First pre-mix **DELEGATE™ 250 WG** with water before adding to partly filled spray tank. Maintain agitation and fill spray tank to three-quarters of total spray volume. Then add:
2. Water dispersible granules (WG). (After pre-mixing with water)
3. Wettable powders (WG) or water dispersible powders (WS) after pre-mixing with water.
4. Suspension concentrates (SC).
5. Capsulated suspensions (CS).
6. Emulsifiable concentrates (EC) or Emulsion oil in water concentrates (EW).
7. Foliar Fertilizers – after pre-mixing with water.

Finish filling the spray tank while maintaining continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, settled materials must be resuspended before spraying is resumed. A back flow sparger agitator at the bottom of the tank is particularly useful for this purpose.

Premixing:

Dispersible granule (WG) and Wettable Powder (WP) formulations may be pre-mixed with water (slurried) and added to the spray tank through a mesh screen. This procedure assures good initial dispersion of these formulation types.

Rainfastness: Avoid applications when rain is expected within 6 hours of spraying.

APPLICATION

Proper application techniques help ensure thorough spray coverage and the correct dosage necessary to obtain optimum control of insect pests. The following recommendations are provided for effective application of **DELEGATE™ 250 WG**. To ensure adequate spray coverage, attention should be given to proper ground speed and calibration as well as conditions such as wind speed, and foliar canopy.

Application for row crops:

Use conventional ground spray equipment calibrated to provide thorough coverage of the target crop. Align the boom and nozzles to obtain uniform coverage of the target crop. Under certain conditions, nozzles on drop arms may be required to obtain uniform crop coverage. Use hollow cone nozzles suitable for insecticide spraying.

Follow manufacturer's recommendations for ideal spacing, pressure and boom height.

Application for Fruit tree crops:

Use conventional orchard spray equipment correctly calibrated to provide thorough coverage of the target crop and correct rate per hectare.

Deciduous fruit trees:

DELEGATE™ 250 WG should be sprayed to deciduous fruit trees using equipment and methods that will ensure proper coverage of the target area. Except for situations where high volume applications are specifically recommended, low volume applications (max. 4x) may be considered providing the equipment is suitable or adapted for low volume application and conditions are favourable for optimum coverage of the target area.

Rate per ha should preferably be calculated according to the formula for "high volume requirements" (HVR), using "Unrath's Formula" for "Tree Row Volume" (TRV).

$$\text{TRV} = \frac{\text{Tree Height (TH)} \times \text{Tree Width (TW)} \times 937}{\text{Distance between Rows (RW)}} = \text{HVR in liters per ha}$$

*(Tree height and tree width should be measured during summer when trees are in full flush)

Directions for Application Volumes (AV) at different growth stages and the calculation of rate per ha, based on High Volume Requirements (HVR)

Growth Stage	Application Volume
Bud Break to Full Blossom	60 % x HVR
75 % Petal Fall to One Month Later (Mid Season)	80 % x HVR
Mid Season to Post Harvest, Before Leaf Drop	100 % x HVR

$$\text{Rate per ha} = \frac{\text{HVR in } \ell / \text{ha} \times \text{Rate per 100 } \ell}{100}$$

Application on Table Grapes

DELEGATE™ 250 WG should be sprayed as a high volume application on table grapes. The amount of **DELEGATE™ 250 WG** per ha must be calculated according to high volume requirements for a specified growth stage by using the following guidelines.

Growth Stage	Suggested volume of spray mixture per ha for high volume application
2,5 – 25 cm shoot length	500 – 750 ℓ
25 cm shoot length to just prior flowering	750 – 1000 ℓ
Flowering to pea berry stage	1000 – 1200 ℓ
Pea berry stage to harvest	1200 – 1500 ℓ

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
AVOCADOS Thrips <i>(Thripidae spp)</i> False Codling Moth <i>(Thaumatotibia leucotreta)</i>	10 g 20 g	<p>Commence spraying at the first signs of thrip presence. Repeat application when necessary. Apply as a light cover spray. Thorough cover of the target area is essential.</p> <p>Apply DELEGATE™ 250 WG as a high volume application when pest normally occurs. Apply at least 2 applications with 3-4 week intervals, starting 2 – 3 months prior to harvest or as monitored. If additional applications are required use a product with a different mode of action.</p> <p>RESISTANCE NOTE: Do not apply DELEGATE™ 250 WG in more than two (2) consecutive applications for Thrip control at any time or in total more than four (4) applications per season to any one block of Avocados. Alternate the use of DELEGATE™ 250 WG with registered insecticides with a different mode of action.</p> <p>NOTE: Avoid applying DELEGATE™ 250 WG whilst bees are foraging. Apply at night if applications are required during this period.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>BERRIES Blackberries, Blueberries, Strawberries, Booyenberries, Youngberries and Raspberries African Bollworm (<i>Helicoverpa armigera</i>)</p> <p>Thrips Various species including Western Flower Thrip (<i>Frankliniella occidentalis</i>)</p>	<p>12 g</p> <p>10 g</p>	<p>Apply DELEGATE™ 250 WG as a full cover spray when scouting indicates infestation level at, or above threshold level. Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae.</p> <p>An application at the Bollworm rate will control Thrips as well.</p> <p>Commence spraying at the first signs of thrip presence. Repeat application when necessary. Apply as a light cover spray. Thorough cover of the target area is essential. Repeat application if necessary.</p> <p>Resistance Note: Do not apply DELEGATE™ 250 WG in more than two (2) consecutive applications for Thrip control at any time or in total more than three (3) applications per season to any one block of berries. Alternate the use of DELEGATE™ 250 WG with registered insecticides with a different mode of action.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
CRUCIFERAE (All cruciferae crops) Fall army worm (<i>Spodoptera frugiperda</i>)	100 - 120 g/ha	<p>Apply DELEGATE™ 250 WG as a full cover spray at a minimum of 500ℓ/ha every 7-10 days.</p> <p>Start application when pest is first noticed, or apply as a follow-up application in a spray programme after insecticides from a different class as required in anti-resistant programmes. Apply a minimum of two consecutive DELEGATE™ 250 WG sprays to ensure effective control of pest.</p> <p>Use the higher rate when a corrective application is made. The lower rate may be used for follow-up applications when applied in a spray programme.</p> <p>Use the shorter spray interval of 7 days when heavy infestations occur or when climatic conditions favour the pest e.g during summer months.</p>
CITRUS African Bollworm (<i>Helicoverpa armigera</i>)	12 g	<p>Do not apply more than 4 applications per season. Apply DELEGATE™ 250 WG as a full cover spray when scouting indicates infestation level at, or above threshold level.</p> <p>Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae.</p> <p>An application at the Bollworm rate will control Thrips as well.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>CITRUS Citrus thrips (<i>Scirtothrips aurantii</i>)</p>	<p>10 g</p> <p>300 - 500 g/ha</p>	<p>Ground Application: Commence spraying after 90 % petal fall at the first signs of thrip presence. Repeat application when necessary. Apply as a light cover spray. Thorough cover of the target area is essential.</p> <p>Aerial application: Apply at first signs of infestation. Repeat application when necessary. A spray mixture volume of at least 30 litres per hectare is recommended. Follow guidelines as indicated under “aerial application”, ensuring good coverage is achieved as required for control of this pest. Application for control of thrips will also control bollworm. Use higher rate under high infestation pressure.</p> <p>RESISTANCE NOTE: Do not apply DELEGATE™ 250 WG in more than two (2) consecutive applications for Thrip control at any time or in total more than four (4) applications per season to any one block of Citrus. Alternate the use of DELEGATE™ 250 WG with registered insecticides with a different mode of action.</p>
<p>False Codling Moth (<i>Thaumatotibia leucotreta</i>)</p>	<p>20 g Where the spray volume exceeds 5000 ℓ/hectare the rate of 12 g/100 ℓ may be used.</p>	<p>Apply DELEGATE™ 250 WG as a high volume application at 8 and 4 weeks prior to harvest.</p> <p>Resistance management: For control of False Codling Moth do not apply DELEGATE™ 250 WG in total more than two times per season. Use registered insecticides with a different mode of action for further control measures.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
FIGS Black fig fly <i>(Silba adipata)</i> African Bollworm <i>(Helicoverpa armigera)</i>	12 g	Apply DELEGATE™ 250 WG as a full cover spray. Thorough cover of the target area is essential. Start applications as soon as the pests is noticed or expected. Usually between September and January. Repeat applications as necessary. <u>Resistance Management.</u> For resistance management, DELEGATE™ 250 WG should not be applied in total more than three times per season on Figs. If additional applications are required, use an insecticide with a different mode of action.
HOPS African Bollworm <i>(Helicoverpa armigera)</i>	12 g	Apply DELEGATE™ 250 WG as a full cover spray when scouting indicates infestation level at, or above threshold level. Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae. <u>Resistance management.</u> For resistance management, DELEGATE™ 250 WG should not be applied in total more than three times per season on Hops. If additional applications are required, use a product with a different mode of action.

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
MAIZE, SWEETCORN and SORGHUM Fall army worm <i>(Spodoptera frugiperda)</i>	100 - 120 g/ha	<p>MAIZE: Do not apply to crops under drought stress. Apply DELEGATE™ 250 WG to crops that are growing vigorously, and apply up to the stage before the tassels/ears are enclosed by the flag leaf of the maize. Treat before larvae enter the stalks, larvae that have already tunneled into the funnels will not be controlled.</p> <p>Use 300 ℓ / ha spray volume. The first application must be made when 10 % of the plants show shothole damage.</p> <p>For sweetcorn apply when shothole damage is visible.</p> <p>When the larvae are bigger than 10 mm or a re-infestation occurs, a second application may be necessary within 10-14 days after the first application.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>MAIZE, SWEETCORN and SORGHUM (cont.) Fall army worm (<i>Spodoptera frugiperda</i>)</p>		<p>Larvae that are present in the stems of plants at application will not be controlled. For sweetcorn apply preventatively or as soon as shothole damage is observed. Apply over the funnel of plants and ensure thorough coverage.</p> <p>If re-infestation occurs a repeat application may be required within 10-14 days. The first application must be made when 10% or less of the plants show shothole damage. For sweetcorn apply preventatively or as soon as shothole damage is observed.</p> <p>Apply over the funnel of plants and ensure thorough coverage.</p> <p>If re-infestation occurs a repeat application may be required within 10-14 days.</p> <p>Use higher rate where larger larvae are present (>15-20 mm).</p> <p>Note: Do not apply DELEGATE™ 250 WG in more than two consecutive applications or in total more than three times per season.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>PERSIMMONS Thrips – various species including Western Flower Thrip (<i>Frankliniella occidentalis</i>)</p> <p>African Bollworm (<i>Helicoverpa armigera</i>)</p> <p>False Codling Moth (<i>Thaumatotibia leucotreta</i>)</p>	<p>10 g</p> <p>12 g</p> <p>20 g</p>	<p>Commence spraying at the first signs of thrip presence. Repeat application when necessary. Apply as a light cover spray ensuring thorough coverage of the target area.</p> <p>Apply DELEGATE™ 250 WG as a high volume cover application when scouting indicates infestation level at or above the threshold level. Apply a follow-up application if necessary.</p> <p>Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae.</p> <p>An application at the Bollworm rate will control Thrips as well.</p> <p>Apply DELEGATE™ 250 WG as a high volume application when pest normally occurs. Apply at least 2 applications with 3-4 week intervals, starting 2 – 3 months prior to harvest or as monitored. If additional applications are required use a product with a different mode of action.</p> <p><u>Resistance management.</u> For resistance management, DELEGATE™ 250 WG should not be applied in total more than four times per season on Persimmons.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>POME FRUIT – APPLES AND PEARS African Bollworm (<i>Helicoverpa armigera</i>)</p> <p>Codling moth (<i>Cydia pomonella</i>)</p> <p>Codling moth (<i>Cydia pomonella</i>)</p>	<p>12 g</p> <p>16 g (maximum rate of 500 g/ha – based on 2500 ℓ/ha spray volume)</p>	<p>Apply DELEGATE™ 250 WG as a full cover spray when scouting indicates infestation level at, or above threshold level.</p> <p>Note: As a single corrective spray against Bollworm, DELEGATE™ 250 WG is more effective against early instar larvae.</p> <p>Apply DELEGATE™ 250 WG as a full cover spray. Thorough cover of the target area is essential.</p> <p>Start applications at the beginning of a moth generation or in the case of the first generation, at ¾ petal fall and repeat at 14 day intervals for a maximum of two (2) consecutive applications.</p> <p>Although DELEGATE™ 250 WG can be used on any generation of Codling Moth, the positioning of DELEGATE™ 250 WG will be determined by the specific control strategy that is followed. When application of DELEGATE™ 250 WG is aimed at egg hatch (based on a Degree Day Model in orchards under mating disruption) the determination of Biofix and calculation of following egg hatch is of critical importance. Consult your consultant in this regard.</p> <p>Resistance Management: To comply with resistance management strategies DELEGATE™ 250 WG should be applied to only one generation of Codling Moth per season. Registered products with a different mode of action should be used for the treatment of the other generations of Codling Moth. DELEGATE™ 250 WG should not be applied in total more than two (2) times per season on Apples and Pears for control of Codling Moth.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>POME FRUIT – APPLES AND PEARS (cont.) Codling moth (<i>Cydia pomonella</i>)</p>		<p>If DELEGATE™ 250 WG is applied for the control of the last generation of the season, then a product with a different mode of action must be used for control of the first generation in the following season.</p> <p>For resistance management, DELEGATE™ 250 WG should not be applied in total more than three times per season on Apples and Pears. If additional applications are required, use a product with a different mode of action.</p>
<p>APPLES Banded fruit Weevil (<i>Phlyctinus callosus</i>)</p>	<p>16 g (A registered wetter may be added if required)</p>	<p>Apply DELEGATE™ 250 WG as a full cover spray, ensuring good coverage. Apply as soon as monitoring of cardboard traps indicates presence of weevils, or when feeding damage is observed on lower shoots. A follow-up application may be necessary within approximately 14 days. Weevil infestations are normally to be expected from mid October to the end of November.</p> <p>Do not exceed more than three applications of DELEGATE™ 250 WG on Apples in one season, including the applications made against Codling Moth.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>POMEGRANATES Thrips Various species including Western Flower Thrip (<i>Frankliniella occidentalis</i>)</p> <p>African Bollworm (<i>Helicoverpa armigera</i>)</p> <p>False Codling Moth (<i>Thaumatotibia leucotreta</i>)</p>	<p>10 g</p> <p>12 g</p> <p>20 g</p>	<p>Apply DELEGATE™ 250 WG as a high volume application when scouting indicates infestation level at, or above threshold level. Depending on the duration of the flowering period and the infestation level of Thrips a follow-up application may be necessary.</p> <p>Apply DELEGATE™ 250 WG as a light cover spray as soon as Thrip presence noticed. Ensure thorough coverage of the target. Apply a follow-up application if necessary.</p> <p>Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae.</p> <p>An application at the Bollworm rate will control Thrips as well.</p> <p>Apply DELEGATE™ 250 WG as a high volume application when pest normally occurs. Apply at least 2 applications with 3-4 week intervals, starting 2 – 3 months prior to harvest or as monitoring indicates necessity for control.</p> <p>If additional applications are required, use a product with a different mode of action.</p> <p><u>Resistance management.</u> For resistance management, DELEGATE™ 250 WG should not be applied in total more than three times per season on Pomegranates.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>POTATOES Potato Tuber Moth larvae (<i>Phthorimaea operculella</i>) Potato Leaf Miner (<i>Liriomyza huidobrensis</i>)</p> <p>Tomato leaf miner moth (<i>Tuta absoluta</i>)</p> <p>Potato Tuber moth larvae (<i>Phthorimaea operculella</i>) Potato Leaf Miner (<i>Liriomyza huidobrensis</i>)</p>	<p>150 g/ha (A registered wetter may be added if required)</p> <p>200 g/ha (a registered wetter may be added if required)</p>	<p>Apply in a spray programme as a full cover spray at 500 – 1000 ℓ/ha spray mixture every 7 – 10 days. Start application when the pests are first noticed or apply as a follow-up application in a spray programme after insecticides from a different class as required in anti-resistance programmes. Apply a minimum of two consecutive DELEGATE™ 250 WG sprays to ensure effective control of pests. The volume of spray mixture to be applied per ha depends on the plant size and plant density.</p> <p>Start with a minimum of 500 ℓ spray mixture per ha on young plants and increase volume up to 1000 ℓ/ha as plant size increases.</p> <p>Use the shorter spray interval of 7 days when heavy infestations occur or when climatic conditions favour the pest eg. during summer months or when beneficial insects are absent.</p> <p>For the purpose of a resistance strategy do not apply DELEGATE™ 250 WG in more than four (4) consecutive applications in a 28 day period. Rotate DELEGATE™ 250 WG in a spray programme with a different chemical class of insecticide for the duration of at least one generation of the pest. Do not apply DELEGATE™ 250 WG in more than a total of four (4) applications per cultivation.</p> <p>Ridge at least twice during growing season (Tuber Moth).</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
ROOIBOS TEA African Bollworm (<i>Helicoverpa armigera</i>)	12 g	Apply DELEGATE™ 250 WG as a full cover spray when scouting indicates infestation level at, or above threshold level. Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae. <u>Resistance management.</u> For resistance management, DELEGATE™ 250 WG should not be applied in total more than three times per season on Rooibos Tea. If additional applications are required, use a product with a different mode of action.
STONE FRUIT PEACHES, NECTARINES, PLUMS, APRICOTS, PRUNES AND CHERRIES African Bollworm (<i>Helicoverpa armigera</i>)	12 g	Do not apply more than three (3) applications per season. Apply DELEGATE™ 250 WG as a full cover spray when scouting/monitoring indicates infestation level at, or above threshold level. Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae. NB: Larvae should not be bigger than 5 mm.

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>STONE FRUIT PEACHES, NECTARINES, PLUMS, APRICOTS, PRUNES AND CHERRIES (cont.) False Codling Moth (FCM) (<i>Thaumatotibia leucotreta</i>)</p>	20 g	<p>An application against Bollworm will contribute to control Oriental Fruit Moth, providing the registered rate against Oriental Fruit Moth is applied within seven (7) days after application of the Bollworm rate.</p> <p>Apply DELEGATE™ 250 WG as a full cover application in one to three of the following applications. Commence applications 6 - 8 weeks prior to harvest or when regular moth catches are recorded. Repeat applications against FCM at fourteen (14) day intervals. Sprays against FCM will also control Codling Moth and Oriental Fruit Moth.</p> <p>NOTE: See “Resistance Management” on Stone Fruit below.</p>
<p>PEACHES AND NECTARINES Oriental Fruit Moth (OFM) (<i>Cydia molesta</i>)</p>	20 g	<p>Apply DELEGATE™ 250 WG as a full cover application in not more than two consecutive applications or in total more than three (3) applications per season to any one block of stone fruit. Repeat applications at fourteen (14) day intervals or spray on recommended Degree Days. (Consult your advisor if in doubt concerning the application of the Degree Day Model for OFM in your area).</p> <p>Applications for OFM will also control FCM and Codling Moth.</p> <p>NOTE: See “Resistance Management” on Stone fruit below.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>NECTARINES , PLUMS AND CHERRIES Thrips (Various species including Western Flower Thrip – WFT (<i>Frankliniella occidentalis</i>))</p> <p>Early damage</p> <p>Prevention of Silvering</p>	<p>10 g</p> <p>10 g</p>	<p>Early thrip damage normally occurs during the period of early blossom to shortly after blossom. Damage caused by WFT may also occur as late infestations shortly before harvest (See Prevention of Silvering). Hot weather conditions favour thrip activity. Recommended monitoring methods should be adhered to, especially during the susceptible stage.</p> <p>Apply DELEGATE™ 250 WG during full blossom up to 75% petal fall as a high volume cover application when scouting/monitoring indicates infestation of pest at/or above threshold levels. Depending on the duration of the flowering period and the infestation level of Thrips, a follow-up application within 7 – 10 days may be necessary to obtain adequate protection.</p> <p>To suppress thrip populations at early blossom (10 - 50 % blossom) rather consider chemicals with a different mode of action. Do not disturb orchard floor or apply weed control during the blossom period. Note: See “resistance management” on stone fruit below.</p> <p>Apply DELEGATE™ 250 WG as a high volume cover application when first Thrip activity, responsible for silvering, is noticed. Adhere to pre-harvest interval. For export ensure requirements are met.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>NECTARINES, PLUMS AND CHERRIES (cont.) Prevention of Silvering</p>		<p>RESISTANCE MANAGEMENT ON STONE FRUIT: False Codling Moth (FCM), Oriental Fruit Moth (OFM) and Thrips: Do not apply in total more than three (3) applications of DELEGATE™ 250 WG per season to any one block of Stone Fruit. If the aim is only FCM, do not apply in more than two consecutive applications. Alternate the use of DELEGATE™ 250 WG within the same season by using registered products with a different mode of action.</p>
<p>TABLE GRAPES Thrips (Various species including Western Flower Thrip – WFT (<i>Frankliniella occidentalis</i>))</p> <p>Thrips – prevention of early damage</p>	<p>10 g</p> <p>10 g</p>	<p>Early damage: the presence of Thrips and their associated damage on grapes occurs mainly during the period of early flowering to shortly after flowering.</p> <p>Late damage: In some areas and under certain conditions (hot and dry weather) thrips may occur at a later stage (normally at veraison). The presence of Thrips should therefore be monitored on a regular basis. Control measures should be considered when scouting/monitoring indicates infestation at, or above threshold levels.</p> <p>Apply DELEGATE™ 250 WG as a high volume cover application at 80 % capp fall to 100 % blossom, or when monitoring indicates infestation level at or above threshold level. Depending on the duration of the flowering period or presence of Thrip, a follow-up application within 5 – 7 days of the previous application may be necessary to obtain adequate protection.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>TABLE GRAPES (cont.) Thrips – prevention of late damage</p> <p>African Bollworm (<i>Helicoverpa armigera</i>)</p> <p>False Codling Moth (FCM) (<i>Thaumatotibia leucotreta</i>)</p> <p>Banded Weevil (<i>Phlyctinus callosus</i>)</p>	<p>10 g</p> <p>12 g</p> <p>20 g</p> <p>20 g</p>	<p>For control of late infestations apply DELEGATE™ 250 WG as a high volume cover application when monitoring indicates infestation level at, or above threshold level. Adhere to pre-harvest interval. For export ensure requirements are met.</p> <p>Apply DELEGATE™ 250 WG as a full cover spray when scouting indicates infestation level at, or above threshold level. Note: As a single corrective spray against bollworm, DELEGATE™ 250 WG is more effective against early instar larvae.</p> <p>Apply DELEGATE™ 250 WG as a high volume application when pest normally occurs. Apply 2 applications with 3-4 week intervals, starting 8 weeks prior to harvest or as monitoring indicates necessity for control. If additional applications are required, use a product with a different mode of action.</p> <p>Apply DELEGATE™ 250 WG as a full cover spray, ensuring good coverage. Apply as soon as monitoring of cardboard traps indicates presence of weevils, or when feeding damage is observed on lower shoots. A follow up application may be necessary within approximately 14 days. Weevil infestations are normally to be expected from mid October to the end of November.</p> <p>Resistance management: Do not apply DELEGATE™ 250 WG in more than two consecutive applications or in total more than three times per season to any one block of Table Grapes.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>TOMATOES Tomato leaf miner moth (<i>Tuta absoluta</i>)</p>	<p>200 g/ha (a registered wetter may be added if required)</p>	<p>Apply in a spray programme as a full cover spray at 500 – 1000 ℓ/ha spray mixture every 7 – 10 days. Start application when pest first noticed or apply as a follow-up application in a spray programme after insecticides from a different class as required in anti-resistance programmes. Apply a minimum of two consecutive DELEGATE™ 250 WG sprays to ensure effective control of pests. The volume of spray mixture to be applied per ha depends on the plant size and plant density.</p> <p>Start with a minimum of 500 ℓ spray mixture per ha on young plants and increase spray volume up to 1000 ℓ/ha as plant size increases.</p> <p>Use the shorter spray interval of 7 days when heavy infestations occur or when climatic conditions favour the pest eg. during summer months or when beneficial insects are absent</p> <p>For the purpose of a resistance strategy do not apply DELEGATE™ 250 WG in more than four (4) consecutive applications in a 28 day period. Rotate DELEGATE™ 250 WG in a spray programme with a different chemical class of insecticide for the duration of at least one generation of the pest. Do not apply DELEGATE™ 250 WG in more than a total of four (4) applications per cultivation.</p>

CROP/PEST	DOSAGE/100 ℓ WATER	REMARKS
<p>TREE NUTS (Almonds, Cashews, Chestnuts, Hazelnuts, Macadamia nuts, Pecan nuts, Pistachio nuts, Walnuts, Coconuts, Brazil nuts and Pine nuts)</p> <p>Thrips Various species</p> <p>False Codling Moth (<i>Thaumatotibia leucotreta</i>)</p> <p>Nut borer (<i>Thaumatotibia batrachopa</i>)</p>	<p>10 g</p> <p>20 g</p>	<p>Commence spraying at the first signs of thrip presence. Repeat application when necessary. Apply as a light cover spray ensuring thorough coverage of the target area.</p> <p>Apply DELEGATE™ 250 WG as a high volume application when pest usually occurs. Normally from beginning of November to end of December. Recognized monitoring practices need to be carried out to determine presence of pest. Apply two to three applications in this period, if additional applications are required use a product with a different mode of action.</p> <p><u>Resistance management:</u> For resistance management, DELEGATE™ 250 WG should not be applied in total more than three times per season on Pecan, Macadamia and other nut crops.</p>

Local Emergency No: +27(0)82-895-0621 (SA only)
24 Hour Emergency Tel No: +32-3-575-5555
Information Hotline Tel No: +27(0)12) 683-5700

WAARSKUWINGS

Onthoudingsperiode - Minimum tyd wat tussen die laaste toediening en oes moet verstryk:

Aartappels	3 dae
Appelkose	7 dae
Appels	7 dae
Avokado's	7 dae
Bessies	7 dae
Boomneute (Amandels, Kasjoeneute, Haselneute, Makadamia neute, Pekanneute, Pistachioneute, Okkerneute, Klapperneute, Brasiliaanse neute en Denneneute)	7 dae
Granate	7 dae
Hops	3 dae
Kersies	7 dae
Nektariens	7 dae
Koolgewasse (Alle)	21 dae
Mielies	21 dae
Olywe	14 dae
Pere	7 dae
Persimmons	7 dae
Perskes	7 dae
Pruime	7 dae
Pruimedante	7 dae
Rooibostee	21 dae
Sitrus	7 dae
Sorghum	21 dae
Tafeldruiwe	3 dae
Tamaties	3 dae
Vye	7 dae

LET WEL: Nakoming van bogenoemde onthoudingsperiodes sal verseker dat die plaaslike vereistes vir Maksimum Residu Limiete nie oorskry word nie. Die invoertolleransies van ander lande mag egter verskil en plaaslike vlakke en onthoudingsperiodes mag dalk nie voldoen aan die vereistes van ander lande nie. Indien die gewas wat behandel gaan word vir uitvoer bestem is, skakel met die betrokke invoerder of uitvoerorganisasie rakende die gebruik van hierdie produk, maksimum residuvereistes en aanbevole onthoudingsperiodes.

LUGTOEDIENING: Stel alle inwoners in die nabye omgewing van die lugbespuitingsarea in kennis en reik die nodige waarskuwings uit. Voorkom besoedeling en wegdrywe van spuitnewel na water of aangrensende gewasse en gebiede.

- Hanteer die produk versigtig.
- Mag moontlike ligte oogirritasie veroorsaak.
- Giftig vir vis en waterorganismes. Moenie oor oop waterbronne toedien nie.

- Voordelige Insekte: “Matig Giftig vir Bye”.
- ❖ Hierdie produk is giftig vir bye wanneer hul aan direkte bespuiting, of nat spuitresidu, blootgestel word.
- ❖ Moenie direk op kolonies of aktiewe bye spuit nie.
- ❖ Spuit gedurende nag op gewasse in blom of waar 'n gewas binne 500 m van die area wat bespuit moet word, in blom is.
- ❖ Laat minstens 'n periode van 3 ure tussen toediening en bye aktiwiteit toe.
- ❖ **DELEGATE™ 250 WG** sal nie met byaktiwiteite inmeng na afdroog van spuitreste nie.
- ❖ Studies het geen nadelige invloed op die bykorwe getoon nie.

Stel bure, byeboere asook plaaslike voorligters in kennis voordat in die nabyheid van gewasse in blom, toegedien word. **DELEGATE™ 250 WG** het slegs 'n geringe invloed op bye, nadat die spuitstof afgedroog het.

- Parasiete: “Effens skadelik”
- Predatorymyte: “Veilig tot effens skadelik vir sommige spesies”.
- Predatoriese Kewers bv. Coccinillidae: “Relatief skadeloos”.
- Mierleeus (Neuroptera): “Relatief skadeloos”.
- Roofwantse: “Relatief skadeloos”.

Nadat spuitresidu's afgedroog het is die werking van **DELEGATE™ 250 WG** hoofsaaklik gebaseer op inname. Die kontak effek op voordelige insekte behoort dan van korte duur te wees.

- Berg in 'n koel, droë plek en verwyderd vanaf voedsel en veevoer.
- Hou buite bereik van kinders, oningeligte persone en diere.

Herbetredingsperiode:

Tensy beskermende klere gedra word, moenie 'n behandelde gebied betree alvorens die spuitneerslag afgedroog het nie.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale klimaats- en bergingstoestande; kwaliteit van verdunningswater; verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die plaag teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMATREËLS

Berg altyd in die oorspronklike ge-etiketeerde houer. Die houer moet toe wees en moet in 'n droë, koel, goed geventileerde stoorplek geberg word, wat te alle tye gesluit is. Berg verwyderd van voedsel en voer.

Vermy die inaseming van sproeinewel.

Was met water en seep in geval van toevallige kontak met vel.

Dra handskoene en 'n gesigskerm wanneer hanteer word.

Vermy vel- en oogkontaminasie. In geval van toevallige oogkontak, spoel oë met lopende water vir ongeveer 15 minute. Verkry mediese hulp indien oogirritasie nie sou opklaar nie.

Moenie eet, drink of rook terwyl gemeng of toegedien word nie.

Tydens vermenging of toediening moet die hande en gesig altyd gewas word voordat geëet, gedrink, gerook of die toilet besoek word.

Vermy wegdrywing van spuitnewel na aangrensende gewasse, weidings, riviere of damme.

Maak alle toerusting skoon voordat vir ander middels gebruik word en gooi spoelwater weg in reeds gespuite area waar dit nie gewasse, weiding, riviere, damme en waterbronne sal besoedel nie.

Ledig houers deur dit vir ongeveer 30 sekondes omgekeer te hou totdat die uitvloei van die inhoud tot 'n stadige drup verlangsaam. Spoel die leë houer daarna drie maal uit met water gelykstaande aan ongeveer 10 % van die volume van die houer en voeg die spoelwater by die inhoud van die spuittenk. Vernietig die leë houer deur gate in te kap, plat te slaan en te begrawe. Moet nooit leë houers vir enige ander doel aanwend nie.

Voorkom die besoedeling van kos, voedingstowwe, drinkwater en eetgerei tydens opberging, hantering en wegdoening.

LUGTOEDIENING

DELEGATE™ 250 WG kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS 10118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- Volume: 'n Spuitmengsel volume van 30 liter per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- Druppel bedekking: 30 – 40 druppels per cm² moet op die teikenarea herwin word.
- Druppelgrootte: 'n Druppelspektrum met 'n VMD van 250 tot 280 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Vlieghoogte: Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binneste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihygrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15 km/h oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80 % en meer) mag tot volgende probleme aanleiding gee:
 - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken),
 - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.

Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

GEBRUIKSAANWYSINGS:

Gebruik slegs soos aangedui.

DELEGATE™ 250 WG is 'n water disperseerbare korrel, wat vooraf met water vermeng moet word om deur middel van konvensionele spuitapparaat as looftoedienings op plante toegedien te word.

DELEGATE™ 250 WG werk deur middel van kontak aksie en inname. Larwes wat blootgestel word aan die produk hou dadelik op om te voed, maar dit mag tot drie (3) dae neem voor mortaliteit intree. Goeie bedekking van die teikenarea is belangrik.

Weerstandbestuur van insekmiddels

Insekdoders word geklassifiseer op grond van hul werkingswyse. ("Mode of Action"). **DELEGATE™ 250 WG** is geklassifiseer as 'n spinosin (IRAC subgroep 5) insekdoder. Moenie **DELEGATE™ 250 WG** meer as vier (4) maal op enige gewas per seisoen toedien nie. Gebruik insekdoders van 'n ander chemiese groep indien meer as vier (4) toedienings benodig word.

Enige insekpopulasie mag individue met 'n natuurlike weerstand teen **DELEGATE™ 250 WG** of ander insekdoders binne dieselfde chemiese groep insluit. Indien **DELEGATE™ 250 WG**, of insekdoders van dieselfde chemiese groep, herhaaldelik oor lang periodes, of teen opeenvolgende generasies van insekte aangewend word, sal die weerstandbiedende individue uiteindelik oorheersend in die populasie voorkom. Hierdie weerstandbiedende insekte sal nie deur **DELEGATE™ 250 WG**, of ander insekdoders binne dieselfde chemiese groep, beheer word nie. Plaaslike kundiges moet oor 'n weerstandstrategie of oor aanbevelings in die verband geraadpleeg word. Dit is bekend dat weerstand van insekte en myte teen insek- en mytdoders ook as gevolg van verhoogde metabolisme, verlaagde penetrasie of veranderde gedragspatroon kan ontstaan. Hierdie tipe weerstand hou nie verband met enige werkingswyse-klassifikasie nie, maar sal spesifiek wees tot 'n bepaalde middel of chemiese groepering. Ten spyte van bogenoemde, bly die afwisseling van middels tussen verskillende chemiese groepe steeds 'n lewensvatbare anti-weerstandstegniek.

Om insekweerstand te vertraag

- Vermy die eksklusiewe gebruik van insekdoders van dieselfde subgroep.
- Moenie insekdoders teen laer dosisse, as wat op die etiket voorgeskryf word, aanwend nie.
- Rig toedienings verkieslik en waar enigsins moontlik, teen die jonger larwale- of die eierstadium van 'n betrokke plaag.
- Sluit ook ander bewese landboukundige of biologiese beheerpraktyke by geïntegreerde plaagbestuursprogramme in.

Geïntegreerde Plaaqbestuursprogram (GPB)

DELEGATE™ 250 WG kan in GPB programme van verskeie gewasse aanbeveel word, veral waar die voorkoms van plae gemonitor word en toedienings eers oorweeg word wanneer die ekonomiese drempelwaarde vir die plaaq op die betrokke gewas bereik is. Behalwe dat **DELEGATE™ 250 WG** die plae wat as voedselbron vir voordelige insekte dien, beheer, het **DELEGATE™ 250 WG** wat binne GLP aangewend word, nie 'n beduidende nadelige invloed op parasitiese en predatoriese insekte en myte soos skilpadkewers, goudogies, roofwantse, predatoriese myte ens. nie. Alhoewel **DELEGATE™ 250 WG** as "skadelik" vir parasiete geklassifiseer word, het veldstudies getoon dat populasies weer vinnig na bespuiting herstel.

Indien **DELEGATE™ 250 WG** met ander insekdoders, wat die selektiwiteit van **DELEGATE™ 250 WG** ten opsigte van die voordelige insekte benadeel, gemeng word, sal die voordeel van **DELEGATE™ 250 WG** in die GPB program nie ten volle benut kan word nie.

Menginstruksies:

DELEGATE™ 250 WG alleen:

Vul die spuittenk tot die helfte van die totale volume water benodig. Voeg die verlangde hoeveelheid **DELEGATE™ 250 WG** in die spuittenk terwyl die water aanhoudend geroer word en die tenk verder tot die verlangde volume aangevul word. Handhaaf roering gedurende bespuiting om univorme verspreiding van die middel in die tenk te verseker. Vermy die terugvloei van water of spuitmengsel na die waterbron.

Mengbaarheid, pH en tenkvermenging:

Moenie **DELEGATE™ 250 WG** met modderige water vermeng nie. Alhoewel pH van spuitmengsels nie 'n invloed op die aanvanklike uitklopwerking van **DELEGATE™ 250 WG** het nie, sal spuitmengsels met 'n lae pH waarde (< pH 5) die residuele werking van **DELEGATE™ 250 WG** benadeel. Buffer-middels is oor die algemeen nie nodig nie. Versuringsmiddels of produkte wat die spuitmengsel tot onder pH 5 sal versuur (bv. Fosfonate, hoë konsentrasies van blaarvoedings, ens.) moet vermy word of terug gebuffer word tot pH 5 - 8. Optimum werking van **DELEGATE™ 250 WG** word by pH 5 - 8 verkry.

Die mengbaarheid mag beïnvloed word deur die formulering van die ander produkte asook die kwaliteit van die water. Indien die mengbaarheid onbekend is moet 'n fisiese mengbaarheidstoets op klein skaal, in die regte verhoudings, gedoen word alvorens die middels in die tenk gevoeg word.

DELEGATE™ 250 WG is mengbaar met ligte en medium smalbestek minerale olie op sitrus. Raadpleeg die minerale olie etikette aangaande hul gebruik.

In die geval van blaarvoedings moet 'n afsonderlike verenigbaarheidstoets vir elke tipe blaarvoedingsprodukt, in die betrokke water gedoen word.

In die geval van tenkmengsels word hewige en deurlopende roering tydens vermenging, vulling en toediening vereis. Terugvloei-pype met sywaartse uitlate op die bodem van die tenk, verskaf normaalweg die mees doeltreffendste roering. Om die vorming van skuim te beperk, moet enige aksie wat die vermenging van lug met die spuitmengsel veroorsaak, voorkom word.

Mengvolgorde vir Tenkmengsels:

Vul spuittenk tot ongeveer 'n kwart van totale volume spuitwater verlang. Terwyl die inhoud van die spuittenk geroer word, voeg die verskillende formulasiesoorte in volgorde soos hieronder genoem, by die spuitwater in die tenk. Na byvoeging van elke produk, laat voldoende tyd vir volledige vermenging en verspreiding toe, voordat die volgende produk bygevoeg word. Laat addisionele meng- en dispergeringstyd vir waterdispergeerbare produkte toe.

Meng verskillende formulase in die volgende volgorde:

1. Meng **DELEGATE™ 250 WG** vooraf met water alvorens dit in die half-vol spuittenk gevoeg word. Terwyl voortdurend geroer word, vul die spuittenk tot driekwart van die totale volume verlang en voeg dan die ander formulasies soos volg by:
2. Water disperseerbare korrels (WG) (Na vooraf vermenging met water).
3. Benatbare poeiers (WP) of waterdisperseerbare poeiers (WS) (Na vooraf vermenging met water).
4. Suspensie konsentrate (SC).
5. Ge-enskapsuleerde suspensies (CS).
6. Emulgeerbare konsentrate (EC) of emulsies (olie in water konsentrate) (EW).
7. Blaarvoedingsmiddels – na vooraf vermenging met water.

Terwyl deurlopend geroer word, vul tenk tot verlangde volume. Hou die inhoud van die tenk in roering vir die volle duur van vermenging en bespuiting. In geval van 'n spuitonderbreking terwyl die tenk nog nie leeg is nie, moet die spuitmengsel eers weer deur deeglike roering in suspensie gebring word, voordat bespuiting hervat word. 'n Terugvloei pyp met sywaartse uitlate op die bodem van die spuittenk is baie geskik vir die doel.

Voorafvermenging

Disperseerbare korrel (WG) en benatbare poeier (WP) formulasies kan vooraf met water tot 'n pasta vermeng word en deur maas sif, by die spuitwater gevoeg word. Die prosedure verleen sodoende 'n goeie aanvanklike dispergering van die formulase soorte.

REËNVASTHEID: Vermyn toedienings indien reën binne 6 ure na toediening verwag word.

TOEDIENING

Deur gebruik te maak van behoorlike toedieningstegnieke word verseker dat deeglike bedekking verkry word en die regte dosisse van **DELEGATE™ 250 WG** per ha toegedien word om optimum beheer van insekplae te verseker. Vir die doeltreffende toediening van **DELEGATE™ 250 WG** en goeie bedekking van die gewas, moet die volgende faktore in aanmerking geneem word: Die regte grondspoed en kalibrasie, sowel as windspoed, plantgrootte en digtheid van die blaredek.

Toediening op rygewasse:

Gebruik konvensionele grondspuittoerusting wat gekalibreer is om deeglike bedekking van die teikengewas te verseker. Stel die spuitbalk en spuitkoppe so op dat univorme bedekking van die teikengewas verseker word. Om behoorlike bedekking onder sekere toestande te verseker, mag valarms nodig wees. Maak gebruik van holkeël spuitkoppe, gespaseer op die regte hoogte en spuitbalk tussenspases vir optimale resultate. Volg die instruksies van spuitpompvervaardigers in die verband.

Toediening op Vrugtebome:

Gebruik konvensionele boordspuit toerusting wat op korrekte wyse gekalibreer is om deeglike bedekking van die teikengewas en korrekte dosis per ha te verseker.

Sagtevrugtebome: DELEGATE™ 250 WG moet op sagtevrugtebome toegedien word deur gebruik te maak van toerusting en toedieningsmetodes wat sal verseker dat deeglike bedekking van die teikenarea verkry word. Behalwe waar hoëvolume bespuitings spesifiek aanbeveel word, mag laevolume toedienings oorweeg word (maks 4x), op voorwaarde dat die toerusting geskik is of aangepas is vir laevolume toediening, en dat toestande geskik is vir optimale bedekking van die teikenarea.

Die dosis per ha moet volgens die formule vir “*Hoë volume benodig*” (HVB) bereken word deur van “*Unrath se formule*” vir “*Boomry Volume*” (BRV) gebruik te maak.

$$BRV = \frac{\text{Boomhoogte (BH)}^* \times \text{Boomwydte (BW)}^* \times 937}{\text{Afstand tussen Rye (RW)}} = \text{HVB in liters per ha}$$

*(Boomhoogte en Boomwydte moet gedurende die somer, wanneer bome in volblad is, bepaal word.)

Voorgestelde toedieningsvolumes (TV) by verskillende groeistadiums en die formule vir die berekening van dosis per ha, gebaseer op Hoëvolume Behoefte (HVB)

Groeistadium	Toedieningsvolume
Bot tot Volblom	60 % x HVB
75 % Blomblaarval tot Een Maand Later (Midseisoen)	80 % x HVB
Midseisoen tot Na-oes, Voor Blaarval	100 % x HVB

$$\text{Dosis per ha} = \frac{\text{HVB (l/ha)} \times \text{Dosis} / 100\text{l}}{100}$$

Toediening op Tafeldruiwe:

DELEGATE™ 250 WG moet in hoë volume op tafeldruiwe toegedien word. Die hoeveelheid **DELEGATE™ 250 WG** per ha moet verkieslik volgens die hoë volume behoefte, vir 'n bepaalde groeistadium, bepaal word. Die volgende kan as riglyne dien:

Groeistadium	Voorgestelde volume spuitstof per ha vir Hoëvolume toediening
2,5 cm tot 25 cm lootlengte	500 – 750 ℓ
25 cm Lootlengte tot net voor blom	750 – 1000 ℓ
Blom tot ertjie korrel stadium	1000 – 1200 ℓ
Ertjekorrel stadium tot oes	1200 – 1500 ℓ

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
AARTAPPELS Aartappelmot larf (<i>Phthorimaea aperculella</i>) Aartappelmyner (<i>Liriomyza huidobrensis</i>)	150 g/ha ('n Geregistreerde benatter mag bygevoeg word indien nodig)	Dien toe in 'n spuitprogram as 'n volle dekbespuiting teen 500 – 1000 ℓ/ha spuitmengsel elke 7 – 10 dae. Begin toedien wanneer plaë vir die eerste maal opgemerk word of as opvolgbespuitings in 'n spuitprogram na nie-verwante insekdoders soos in anti-weerstandsprogramme vereis word. Dien 'n minimum van twee opeenvolgende bespuitings met DELEGATE™ 250 WG toe om doeltreffende beheer van plaë te verseker. Die volume spuitmengsel per ha word bepaal deur die plantgrootte en digtheid van die blaredek. Begin met 'n minimum van 500 ℓ/ha spuitmengsel op jong plante en verhoog die volume tot 'n maksimum van 1000 ℓ/ha namate die planthoogte en digtheid van die blaredek toeneem.
Tamatieblaarmyner mot (<i>Tuta absoluta</i>)	200 g/ha ('n Geregistreerde benatter mag bygevoeg word indien nodig)	Gebruik die korter interval van 7 dae waar die populasiedruk hoog is of wanneer omgewingstoestande die plaag bevorder bv. gedurende somermaande of waar natuurlike vyande total afwesig is.

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
AARTAPPELS (verv.)		<p>Vir die doeleindes van 'n weerstandstrategie moet DELEGATE™ 250 WG in nie meer as vier (4) opeenvolgende bespuitings, binne enige periode van 28 dae toegedien word nie. Wissel DELEGATE™ 250 WG in die spuitprogram af met nie-verwante insekdoders vir minstens die duur van een generasie van die plaag. Moenie DELEGATE™ 250 WG in meer as 'n totaal van vier (4) bespuitings per aanplanting aanwend nie.</p> <p>Erd rye minstens tweekeer per groeiseisoen op (aartappelmot).</p>
<p>AVOKADO'S Blaaspootjie (<i>Thripidae</i> spp)</p> <p>Valskodlingmot (<i>Thaumatotibia leucotreta</i>)</p>	<p>10 g</p> <p>20 g</p>	<p>Begin met toediening sodra blaaspootjies waargeneem word. Dien toe as 'n ligte dekbespuiting. Deeglike bedekking van die teikenarea is noodsaaklik. Herhaal toediening indien nodig.</p> <p>Dien DELEGATE™ 250 WG as 'n hoë volume toediening toe wanneer Vals Kodlingmot gewoonlik voorkom. Dien ten minste 2 toedienings toe met 3 – 4 weke tussenposes. Begin toedienings 2 – 3 maande voor oes of volgens monitering. Gebruik produkte met 'n ander werkingswyse indien verdere toedienings benodig word.</p> <p>Weerstandstrategie: Moet nie meer as twee (2) opeenvolgende bespuitings van DELEGATE™ 250 WG vir die beheer van Blaaspootjies toedien nie. Moenie meer as vier (4) maal per seisoen in enige blok avokado's toedien nie. Wissel die gebruik van DELEGATE™ 250 WG af met geregistreerde insekdoders wat 'n ander werkingswyse het.</p> <p>NOTA: Vermy toedienings terwyl bye aktief is in boord. Dien in die nag toe indien toedienings in die periode nodig is.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>BESSIES Swartbessies, Bloubessies, Aarbeie, Booysebessies, Youngbessie en Frambose Afrika Bolwurm (<i>Helicoverpa armigera</i>)</p> <p>Blaaspootjie Verskeie spesies insluitend spesie "Western Flower Thrip" (<i>Frankliniella occidentalis</i>)</p>	<p>12 g</p> <p>10 g</p>	<p>Dien DELEGATE™ 250 WG as 'n voldekbepuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p>DELEGATE™ 250 WG as enkel- of korrektiewe bespuiting teen bolwurm is meer effektief teen jonger larwes.</p> <p>'n Toediening teen Bolwurm sal Blaaspootjie ook beheer.</p> <p>Begin met toediening sodra blaaspootjies waargeneem word. Dien toe as 'n ligte dekbespuiting. Deeglike bedekking van die teikenarea is noodsaaklik. Herhaal toediening indien nodig.</p> <p>Weerstandstrategie: Moet nie meer as twee opeenvolgende bespuitings van DELEGATE™ 250 WG vir die beheer van Blaaspootjies toedien nie. Moenie meer as drie (3) maal per seisoen in enige blok toedien nie. Wissel die gebruik van DELEGATE™ 250 WG af met geregistreerde insekdoders wat 'n ander werkingswyse het.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>GRANATE Blaaspootjies Verskeie spesies insluitend “Western Flower Thrip” (<i>Frankliniella occidentalis</i>)</p> <p>Afrika Bolwurm (<i>Helicoverpa armigera</i>)</p> <p>Vals Kodlingmot (<i>Thaumatotibia leucotreta</i>)</p>	<p>10 g</p> <p>12 g</p> <p>20 g</p>	<p>Begin met toediening sodra blaaspootjies waargeneem word. Dien toe as 'n ligte dekbespuiting. Deeglike bedekking van die teikenarea is noodsaaklik. Herhaal toediening indien nodig.</p> <p>Dien DELEGATE™ 250 WG as 'n voldekbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p>Nota: DELEGATE™ 250 WG as enkel of korrektiewe bespuiting teen bolwurms, is meer effektief teen jonger larwes. 'n Toediening vir die beheer van Bolwurm sal Blaaspootjies ook beheer.</p> <p>Dien toe as 'n hoë volume toediening wanneer die plaag gewoonlik voorkom. Dien ten minste 2 toedienings 3-4 weke uit mekaar toe twee tot drie maande voor oes soos verkenning mag aandui. Indien addisionele toedienings benodig word moet produkte met 'n ander werkingswyse gebruik word.</p> <p>Weerstandstrategie: Vir beheer van Vals Kodlingmot moet DELEGATE™ 250 WG in totaal nie meer as twee (2) maal per seisoen toegedien word nie. Moenie meer as drie (3) maal per seisoen in enige blok Granate toedien nie.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
HOPS Afrika Bolwurm <i>(Helicoverpa armigera)</i>	12 g	<p>Dien DELEGATE™ 250 WG as 'n voldekbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p>Nota: DELEGATE™ 250 WG as enkel of korrektiewe bespuiting teen bolwurms, is meer effektief teen jonger larwes.</p> <p>Weerstandbestuur: Moenie DELEGATE™ 250 WG meer as drie maal per seisoen op Hops toedien nie. Wissel die gebruik van DELEGATE™ 250 WG met insekdoders wat 'n ander werkingswyse het.</p>
KERNVRUGTE - APPELS en PERE Afrika Bolwurm <i>(Helicoverpa armigera)</i>	12 g	<p>Dien DELEGATE™ 250 WG as 'n voldekbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p>Nota: DELEGATE™ 250 WG as enkel- of korrektiewe bespuiting teen Bolwurm is meer effektief teen jonger larwes.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>KERNVRUGTE - APPELS en PERE (verv.) Kodlingmot (<i>Cydia pomonella</i>)</p>	<p>16 g (maksimum dosis van 500 g/ha – gebaseer op 2500 ℓ/ha spuitvolume)</p>	<p>Dien DELEGATE™ 250 WG as ‘n voldekbepuiting toe. Deeglike bedekking van die teikenarea is belangrik.</p> <p>Bespuittings moet aan die begin van ‘n motgenerasie, of in die geval van die eerste generasie, teen $\frac{3}{4}$ blomblaarval, ‘n aanvang neem. Herhaal toedienings met 14 (veertien) dae tussenposes vir ‘n maksimum van 2 (twee) agtereenvolgende bespuittings.</p> <p>Alhoewel DELEGATE™ 250 WG teen enige van die Kodlingmotgenerasies aangewend kan word, sal die posisionering van DELEGATE™ 250 WG bepaal word deur die spesifieke beheerstrategie wat gevolg gaan word.</p> <p>Wanneer die toediening van DELEGATE™ 250 WG op eier uitbroeistadium gerig word (gebaseer op Daggrade Model in boorde onder paringsontwrigting) is die bepaling van “Biofix” en berekening van daaropvolgende eier uitbroeistadium van kardinale belang. Raadpleeg u raadgewer in die verband.</p> <p>Weerstandsbestuur: As weerstandstrategie moet DELEGATE™ 250 WG slegs vir beheer van een Kodlingmotgenerasie per seisoen oorweeg word. Geregistreerde produkte met verskillende werkingswyse moet vir die beheer van die ander generasies oorweeg word. Moenie DELEGATE™ 250 WG in totaal meer as twee (2) maal per seisoen op Appels en Pere toedien vir beheer van Kodlingmot nie.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>KERNVRUGTE - APPELS en PERE (verv.)</p> <p>Gebande Kalander (<i>Phlyctinus callosus</i>)</p>	<p>16 g (‘n Geregistreeerde benatter mag bygevoeg word indien nodig)</p>	<p>Indien DELEGATE™ 250 WG teen die laaste Kodlingmotgenerasie van ‘n seisoen aangewend word, dan moet ‘n produk met ander werkingswyse vir die beheer van die eerste generasie in die daaropvolgende seisoen oorweeg word.</p> <p>Vir weerstandsbestuur moenie DELEGATE™ 250 WG meer as drie maal per seisoen op Appels of Pere toedien nie. Wissel die gebruik van DELEGATE™ 250 WG af met insekdoders wat ‘n ander werkingswyse het.</p> <p>Dien DELEGATE™ 250 WG as ‘n voldekbepuiting toe, maak seker goeie bedekking word verkry. Dien toe sodra monitering van kartonvalle die teenwoordigheid van kalanders aandui, of sodra vreeskade op die laer takke waargeneem word. ‘n Opvolg toediening mag nodig wees binne 14 dae. Kalander infestaties kom gewoonlik vanaf middel Oktober tot die einde van November voor.</p> <p>Moet nie meer as drie DELEGATE™ 250 WG toedienings op Appels per seisoen maak nie, insluitend die toedienings vir beheer van Kodlingmot.</p>
<p>KOOLGEWASSE (Alle) Amerikaanse kommandowurm (<i>Spodoptera frugiperda</i>)</p>	<p>100 – 120 g/ha</p>	<p>Dien DELEGATE™ 250 WG toe as ‘n voldek bespuiting teen ‘n minimum spuitvolume van 500 ℓ/ha elke 7-10 dae.</p> <p>Bespuitings moet begin sodra die plaag waargeneem word, of dien toe as ‘n opvolgbespuiting in ‘n spuitprogram na insekdoders met ‘n ander werkingswyse soos deur weerstandstrategie bepaal. Dien ‘n minimum van twee agtereenvolgende DELEGATE™ 250 WG bespuitings toe om goeie beheer te verseker. Gebruik hoër dosis wanneer ‘n korrektiewe toediening gemaak word. Die laer dosis kan gebruik word vir opvolgbehandelings wanneer produk in ‘n spuitprogram gebruik word.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
KOOLGEWASSE (Alle) (verv.) Amerikaanse kommandowurm (<i>Spodoptera frugiperda</i>)	100 – 120 g/ha	<p>Gebruik die korter interval van 7 dae waar die populasiedruk hoog is of wanneer omgewingstoestande die plaag bevorder bv. gedurende somermaande.</p> <p>Vir die doeleindes van 'n weerstandstrategie moet DELEGATE™ 250 WG in nie meer as twee (2) opeenvolgende bespuitings, of in totaal meer as vier maal per seisoen toegedien word nie. Wissel DELEGATE™ 250 WG in die spuitprogram af met nie-verwante insekdoders vir minstens die duur van een generasie van die plaag.</p>
MIELIES, SUIKERMIELIES EN SORGHUM Amerikaanse kommandowurm (<i>Spodoptera frugiperda</i>)	100 – 120 g/ha	<p>Moet nie toedien op gewasse onder droogtestres nie, dien DELEGATE™ 250 WG toe op aktiefgroeiende plante tot voor die pluim in die vlagblaar van die mielies toegerol is. Behandel alvorens die larwes die stam binnedring, larwes wat reeds die stam binnegedring het sal nie beheer word nie.</p> <p>Gebruik 'n spuitvolume van 300 ℓ/ha. Toediening moet geskied wanneer 10% plante bokhaelskade simptome vertoon. Met suikermielies moet toediening voorkomend geskied of sodra haelskade simptome waargeneem word. Indien larwes groter as 10 mm is en/of wanneer herinfestasië plaasvind, mag 'n tweede toediening 10 tot 12 dae later nodig wees.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
MIELIES, SUIKERMIELIES EN SORGHUM (verv.)		<p>Larwes wat reeds die stam binnegedring het by toediening sal nie beheer word nie. Dien toe bo oor die kelke van plante en verseker goeie bedekking.</p> <p>Nota: Vir die doeleindes van 'n weerstandstrategie moet DELEGATE™ 250 WG in nie meer as twee (2) opeenvolgende bespuitings, of in totaal meer as drie (3) maal per seisoen toegedien word nie. Wissel DELEGATE™ 250 WG in die spuitprogram af met nie-verwante insekdoders.</p> <p>Moet nie toedien op gewasse onder droogtestres nie, dien DELEGATE™ 250 WG toe op aktiefgroeiende plante tot voor die pluim in die vlagblaar van die mielies toegerol is. Behandel alvorens die larwes die stam binnegedring, larwes wat reeds die stam binnegedring het sal nie beheer word nie.</p>
OLYWE Afrika Bolwurm <i>(Helicoverpa armigera)</i>	12 g	<p>Dien DELEGATE™ 250 WG as 'n voldekbepuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p>Nota: DELEGATE™ 250 WG as enkel of korrektiewe bespuiting teen bolwurms, is meer effektief teen jonger larwes.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>OLYWE (verv.) Olyfkewer (<i>Agropistis oleae</i>) (<i>Agropistis sexvittus</i>) (<i>Agropistis capensis</i>)</p>	<p>20 g</p>	<p>Dien DELEGATE™ 250 WG as 'n voldekkbespuiting toe, verseker deeglike benatting van die teikenarea.</p> <p>Begin toedienings sodra teenwoordigheid van die kewer of enige skade op blare opgemerk word.</p> <p>Infestasies begin gewoonlik wanneer nuwe blaargoei (groeistuwings) op die bome teenwoordig is. Herhaal toedienings indien nodig.</p> <p>Weerstandbestuur: Moenie DELEGATE™ 250 WG meer as drie maal per seisoen op Olywe toedien nie. Wissel die gebruik van DELEGATE™ 250 WG af met insekdoders wat 'n ander werkingswyse het.</p>
<p>PERSIMMONS Blaaspootjie Verskeie spesies insluitend “Western Flower Thrip“ (<i>Frankliniella occidentalis</i>)</p> <p>Afrika Bolwurm (<i>Helicoverpa armigera</i>)</p>	<p>10 g</p> <p>12 g</p>	<p>Begin met toediening sodra blaaspootjie waargeneem word. Dien toe as 'n ligte dekbespuiting. Deeglike bedekking van die teikenarea is noodsaaklik. Herhaal toediening indien nodig.</p> <p>Dien DELEGATE™ 250 WG as 'n voldekkbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p>DELEGATE™ 250 WG as enkel- of korrektiewe bespuiting teen bolwurm is meer effektief teen jonger larwes.</p> <p>'n Toediening teen Bolwurm sal Blaaspootjie ook beheer.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
PERSIMMONS (verv.) Vals Kodlingmot (<i>Thaumatotibia leucotreta</i>)	20 g	Dien DELEGATE™ 250 WG as 'n hoë volume toediening toe wanneer Vals Kodlingmot gewoonlik voorkom. Dien ten minste 2 toedienings toe met 3 – 4 weke tussenposes. Begin toedienings 2 – 3 maande voor oes of volgens monitoring. Gebruik produkte met 'n ander werkingswyse indien verdere toedienings benodig word. <u>Weerstandsbestuur:</u> Moenie DELEGATE™ 250 WG meer as drie maal per seisoen op Persimmons toedien nie.
ROOIBOSTEE Afrika Bolwurm (<i>Helicoverpa armigera</i>)	12 g	Dien DELEGATE™ 250 WG as 'n voldekbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry. Nota: DELEGATE™ 250 WG as enkel of korrektiewe bespuiting teen bolwurms, is meer effektief teen jonger larwes. <u>Weerstandsbestuur:</u> Moenie DELEGATE™ 250 WG meer as drie maal per seisoen op Rooibostee toedien nie. Wissel die gebruik van DELEGATE™ 250 WG met insekdoders wat 'n ander werkingswyse het.
STEENVRUGTE PERSKES, NEKTARIENS, PRUIME, APPELKOSE EN KERSIES Afrika Bolwurm (<i>Helicoverpa armigera</i>)	12 g	Moenie meer as 3 (drie) keer per seisoen toedien nie. Dien DELEGATE™ 250 WG as 'n voldekbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>STEENVRUGTE PERSKES, NEKTARIENS, PRUIME, APPELKOSE EN KERSIES (verv.) Afrika Bolwurm (<i>Helicoverpa armigera</i>)</p> <p>Vals Kodlingmot (VKM) (<i>Thaumatotibia leucotreta</i>)</p>	<p>20 g</p>	<p>Nota: DELEGATE™ 250 WG as enkel- of korrektiewe bespuiting teen bolwurm, is meer effektief teen jonger larwes. NB: Larwes moenie langer as 5 mm wees nie.</p> <p>’n Toediening teen Bolwurm sal bydra tot die beheer van Oosterse Vrugtemot, met voorwaarde dat die geregistreeerde dosis vir Oosterse Vrugtemot binne 7 dae na die toediening teen die Bolwurm dosis, toegedien word.</p> <p>Dien DELEGATE™ 250 WG toe as ’n voldekbespuiting in een tot drie van die volgende toedienings:</p> <p>Begin toedienings 6 – 8 weke voor oes of sodra gereelde motvangste verkry word. Herhaal toedienings teen VKM met 14 dae tussenposes. Toedienings teen VKM sal ook Kodlingmot en Oosterse Vrugtemot beheer.</p> <p>Nota: Sien "Weerstandstrategie" op Steenvrugte onderaan.</p>
<p>PERSKES EN NEKTARIENS Oosterse Vrugtemot (OVM)</p>	<p>20 g</p>	<p>Dien DELEGATE™ 250 WG toe as ’n voldekbespuiting in nie meer as twee (2) opeenvolgende bespuitings nie. In totaal moet daar nie meer as drie (3) toedienings per seisoen toegedien word nie. Herhaal toedienings met veertien (14) dae intervalle of spuit op voorgestelde Daggrade Model (Raadpleeg u adviseur indien u twyfel oor die gebruik van die Daggrade model vir OVM in u area).</p> <p>Toedienings teen OVM sal ook Kodlingmot en VKM beheer.</p> <p>Nota: Sien "Weerstandstrategie op Steenvrugte" onderaan.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>NEKTARIENS, PRUIME EN KERSIES Blaaspootjies (Verskeie spesies insluitend „Western Flower thrips“ – WFT – (<i>Frankliniella occidentalis</i>))</p> <p>Vroeë skade</p>	<p>10 g</p>	<p>Vroeë blaaspootjieskade word normaalweg gedurende vroeë blom tot kort na blom veroorsaak. Skade wat deur „WFT“ veroorsaak word, kan ook as laat infestaties, kort voor oes, voorkom (sien versilwering). Warm weerstoestande bevoordeel blaaspootjie-aktiwiteit. Voorgeskrewe verkenningmetodes moet gevolg word om die aanwesigheid en omvang van die plaag te bepaal.</p> <p>Dien DELEGATE™ 250 WG gedurende volblom tot 75% blomblaarval as 'n hoë volume dekbespuiting toe wanneer die plaaggetalle die drempelwaarde bereik of oorskry. Afhangend van die duur van die blomperiode, en die aanwesigheid van blaaspootjies, mag 'n opvolgbespuiting binne 7 – 10 dae nodig wees om voldoende beskerming teen blaaspootjies te verseker.</p> <p>Om blaaspootjie populasies te onderdruk by vroeë blom (10 – 50 % blom) oorweeg om eerder plaagdoders met 'n verskillende werkingswyse te gebruik. Moet nie die boordvloer versteur of onkruidodders toedien tydens die blomperiode nie.</p> <p>Nota: Sien “Weerstandstrategie” op Steenvrugte onderaan.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>NEKTARIENS, PRUIME EN KERSIES (verv.) Versilwering (Voorkoming)</p>	<p>10 g</p>	<p>Dien DELEGATE™ 250 WG as 'n hoë volume dekbespuiting toe wanneer die eerste blaaspootjie-aktiwiteit, wat versilwering tot gevolg mag hê, opgemerk word. Hou by voor-oes interval. Vir uitvoer moet vereistes nagekom word.</p> <p>Weerstandstrategie op Steenvrugte: Vals Kodlingmot (VKM), Oosterse Vrugtemot (OVM) en Blaaspootjie: Moenie DELEGATE™ 250 WG meer as drie (3) maal per seisoen in enige blok steenvrugte per seisoen toedien nie. Indien die doel is om alleenlik VKM te beheer, moet nie meer as twee opeenvolgende bespuitings toegedien word nie.</p> <p>Wissel die gebruik van DELEGATE™ 250 WG binne 'n seisoen af deur gebruik te maak van geregistreerde produkte met 'n verskillende werkingswyse.</p>
<p>SITRUS Afrika Bolwurm (<i>Helicoverpa armigera</i>)</p>	<p>12 g</p>	<p>Moenie meer as 4 (vier) keer per seisoen toedien nie.</p> <p>Dien DELEGATE™ 250 WG as 'n voldekbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p>Nota: DELEGATE™ 250 WG as enkel of korrektiewe bespuiting teen bolwurms, is meer effektief teen jonger larwes. 'n Toediening vir die beheer van Bolwurm sal Blaaspootjies ook beheer.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>SITRUS (verv.) Sitrus blaaspootjie (<i>Scirtothrips aurantii</i>)</p>	<p>10 g</p> <p>300 - 500 g/ha</p>	<p>Begin met toediening sodra blaaspootjies na 90 % blomblaarval waargeneem word. Dien toe as 'n ligte dekbespuiting. Deeglike bedekking van die teikenarea is noodsaaklik. Herhaal toediening indien nodig.</p> <p>Lugtoediening: Dien toe met eerste tekens van infestasië. Herhaal toediening indien nodig. 'n Spuitmengsel volume van ten minste 30 liter per hektaar word aanbeveel. Volg aanbevelings soos aangedui onder „Lugtoediening“, verseker goeie bedekking soos voorgeskryf vir beheer. 'n Toediening vir beheer van blaaspootjies sal bolwurm ook beheer. Gebruik hoër dosis onder hoër insekdruk.</p> <p>Weerstandstrategie: Moet nie meer as twee (2) opeenvolgende bespuitings van DELEGATE™ 250 WG vir die beheer van Blaaspootjies toedien nie. Moenie meer as vier (4) maal per seisoen in enige blok sitrus toedien nie. Wissel die gebruik van DELEGATE™ 250 WG af met geregistreerde insekdoders wat 'n ander werkingswyse het.</p>
<p>Vals Kodlingmot (<i>Thaumototibia leucotreta</i>)</p>	<p>20 g Waar die spuitvolume 5000 ℓ/hektaar oorskry kan 'n dosis van 12 g/100 ℓ gebruik word.</p>	<p>Dien toe as 'n hoër volume toediening 8 en 4 weke voor oes.</p> <p>Weerstandstrategie: Vir beheer van Vals Kodlingmot moet DELEGATE™ 250 WG in totaal nie meer as twee (2) maal per seisoen toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
TAFELDRUIWE Blaaspootjies (Verskeie spesies insluitend “Western Flower Thrips” – WFT (<i>Frankliniella occidentalis</i>)	10 g	<p><u>Vroeë skade:</u> Blaaspootjies en gepaardgaande skade by Tafeldruiwe kom normaalweg gedurende die blomperiode tot kort daarna voor.</p> <p><u>Laat skade:</u> In sommige areas en onder sekere toestande (bv. Langdurige warm en droë toestande) mag blaaspootjies egter later voorkom (normaalweg by deurslaan). Die aanwesigheid van blaaspootjies moet dus op ‘n gereelde basis gemonitor word. Beheermaatreëls moet oorweeg word wanneer die infestasië drempelwaarde bereik of oorskry.</p>
Afrika Bolwurm (<i>Helicoverpa armigera</i>)	12 g	<p>Dien DELEGATE™ 250 WG as ‘n voldekbepuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry.</p> <p><u>Nota:</u> DELEGATE™ 250 WG as enkel of korrektiewe bespuiting teen bolwurms, is meer effektief ten jonger larwes.</p>
Blaaspootjies Voorkoming van Vroeë skade	10 g	<p>Dien DELEGATE™ 250 WG as ‘n hoë volume dekbespuiting by 80 % kappieval tot 100 % blom, of wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry. Afhangende van die duur van die blomperiode of aanwesigheid van Blaaspootjies mag ‘n opvolgbespuiting binne 5 – 7 dae nodig wees, om voldoende beskerming teen blaaspootjies te verseker.</p>
Blaaspootjies – Voorkoming van laat skade	10 g	<p>Vir die beheer van laat infestasië dien DELEGATE™ 250 WG as ‘n hoë volume dekbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry. Hou by vooroes interval. Vir uitvoer moet vereistes nagekom word.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
TAFELDRUIWE (verv.) Afrika Bolwurm <i>(Helicoverpa armigera)</i>	12 g	Dien DELEGATE™ 250 WG as 'n voldekkbespuiting toe wanneer erkende verkenningmetodes aantoon dat die plaaggetalle die voorgeskrewe drempelwaarde bereik of oorskry. Nota: DELEGATE™ 250 WG as enkel of korrektiewe bespuiting teen bolwurms, is meer effektief ten jonger larwes.
Vals Kodlingmot <i>(Thaumototibia leucotreta)</i>	20 g	Dien DELEGATE™ 250 WG as 'n hoë volume toediening toe wanneer Vals Kodlingmot gewoonlik voorkom. Dien ten minste 2 toedienings toe met 3 – 4 weke tussenposes. Begin 8 weke voor oes toedien of volgens monitering.
Gebande kalanders <i>(Phlyctinus callosus)</i>	20 g	Dien DELEGATE™ 250 WG as 'n voldekkbespuiting toe, maak seker goeie bedekking word verkry. Dien toe sodra monitering van kartonvalle die teenwoordigheid van kalanders aandui, of sodra vreeskade op die laer take waargeneem word. 'n Opvolgtoediening mag nodig wees binne 14 dae. Kalanders infestasies kom gewoonlik vanaf middel Oktober tot die einde van November` voor. Weerstandstrategie: Moet nie meer as twee agtereenvolgende bespuitings van DELEGATE™ 250 WG , of in totaal meer as drie maal per seisoen op enige blok Tafeldruiwe toedien nie. Gebruik produkte met 'n ander werkingswyse indien verdere toedienings benodig word.

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
<p>TAMATIES Tamatieblaarmyner mot (<i>Tuta absoluta</i>)</p>	<p>200 g/ha ('n Geregistreeerde benatter mag bygevoeg word indien nodig)</p>	<p>Dien toe in 'n spuitprogram as 'n volle dekbespuiting teen 500 – 1000 ℓ/ha spuitmengsel elke 7 – 10 dae.</p> <p>Begin toedien wanneer plaag vir die eerste maal opgemerk word of as opvolgbespuitings in 'n spuitprogram na nie-verwante insekdoders soos in anti-weerstandsprogramme vereis word. Dien 'n minimum van twee opeenvolgende bespuitings met DELEGATE™ 250 WG toe om doeltreffende beheer van plae te verseker. Die volume spuitmengsel per ha word bepaal deur die plantgrootte en digtheid van die blaredek. Begin met 'n minimum van 500 ℓ/ha spuitmengsel op jong plante en verhoog die volume tot 'n maksimum van 1000 ℓ/ha namate die planthoogte en digtheid van die blaredek toeneem.</p> <p>Gebruik die korter interval van 7 dae waar die populasiedruk hoog is of wanneer omgewingstoestande die plaag bevorder bv. gedurende somermaande of waar natuurlike vyande total afwesig is.</p> <p>Vir die doeleindes van 'n weerstandstrategie moet DELEGATE™ 250 WG in nie meer as vier (4) opeenvolgende bespuitings, binne enige periode van 28 dae toegedien word nie. Wissel DELEGATE™ 250 WG in die spuitprogram af met nie-verwante insekdoders vir minstens die duur van een generasie van die plaag. Moenie DELEGATE™ 250 WG in meer as 'n totaal van vier (4) bespuitings per aanplanting aanwend nie.</p>

GEWAS/PLAAG	DOSIS/100 ℓ WATER	OPMERKINGS
VYE Swart Vyevlieg <i>(Silba adipata)</i> Afrika Bolwurm <i>(Helicoverpa armigera)</i>	12 g	<p>Dien DELEGATE™ 250 WG as 'n voldekbespuiting toe.</p> <p>Begin met toedienings sodra die plaë opgemerk word of wanneer infestasies verwag word. Infestasies gewoonlik vanaf September tot Januarie teenwoordig. Herhaal toedienings soos nodig.</p> <p>Weerstandsbestuur: Moenie DELEGATE™ 250 WG meer as drie maal per seisoen op vye toedien nie. Indien addisionele beheermaatreëls benodig word, wissel die gebruik van DELEGATE™ 250 WG af met insekdoders wat 'n ander werkingswyse het.</p>

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