

# CLOSER<sup>®</sup> 240 SC

## INSECTICIDE

REG. NO. L9694 ACT No. 36 of 1947 / WET Nr. 36 van 1947

**READ THE LABEL BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	4C	INSECTICIDE
A SUSPENSION CONCENTRATE SYSTEMIC INSECTICIDE FOR THE CONTROL OF SAP FEEDING INSECTS ON AGRICULTURAL CROPS AS LISTED.	'N	SUSPENSIE KONSENTRAAT SISTEMIESE INSEKDODER VIR DIE BEHEER VAN SAPSUIENDE INSEKPLAE IN LANDBOUGEWASSE SOOS AANGEDUI.



**HAZARD STATEMENT:**

Toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS:**

Collect spillage.

Dispose of contents/container in accordance with applicable regulations.

**Active Ingredient/Aktiewe Bestanddeel**

Sulfoxaflor (Isoclast<sup>™</sup>) ..... 240 g/l ..... Sulfoksaflor (Isoclast<sup>™</sup>)

Net volume ..... L ..... Netto volume

**REGISTRATION HOLDER / REGISTRASIEHOUER**  
CORTEVA AGRISCIENCE RSA (PTY) LTD / (EDMS) BPK  
REG NO 1991/003030/07  
Lakefield Office Park, Block A, 2<sup>nd</sup> Floor  
272 West Avenue, CENTURION, 0157 South Africa  
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Batch No. ....  
Date of Manufacture .....  
Expiry date .....

..... Lot Nr.  
..... Datum van Vervaardiging  
..... Vervaldatum

UN NO: 3082

Poisons Helpline: +27(0)861-555-777  
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

CLOSER<sup>®</sup> 240 SC/2024-02-13

## **WARNINGS:**

### **HAZARD STATEMENT:**

Toxic to aquatic life with long lasting effects.

### **Withholding period - Minimum time between last application and harvest:**

Apples .....	7 days
Cruciferae/Brassica vegetables (Brussels sprouts, broccoli, cabbage (including all varieties), kale, kholrabi, cauliflower, pakchoi and collards) .....	3 days
Citrus .....	21 days
Cucurbits (melons, musk melons, butternuts, cantaloupes, watermelon, pumpkins, squashes [including summer and winter squash], patty pans, gourds, zucchini, cucumbers, and gherkins) .....	1 day
Grapes .....	28 days
Lettuce .....	3 days
Pears .....	7 days
Peaches .....	14 days
Peppers .....	1 day
Plums .....	14 days
Potatoes .....	21 days
Nectarines .....	14 days
Strawberries .....	1 day
Tomatoes .....	3 days
Tree nuts (almonds, cashews, chestnuts, hazelnuts, macadamia nuts, pecans, pistachio nuts, walnuts, coconuts, brazil nuts and pine nuts) .....	14 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.

Handle with care.

May cause eye irritation.

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.
- ❖ **CLOSER® 240 SC** will not interfere with the activities of honeybees once the spray deposit has dried.
- ❖ Apply only at night to crops in flower or where other foraging vegetation is within 500 m of the spraying area.
- ❖ Allow at least 3 hours between application and foraging period of bees.
- ❖ Studies showed no adverse effects on beehives.

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

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.

## DISCLAIMER:

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

### PRECAUTIONARY STATEMENTS:

Collect spillage.

Dispose of contents/container in accordance with applicable regulations.

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

Avoid inhalation of spray mist.

Wash with soap and water after use.

Wear protective clothing e.g., gloves and face shield when handling.

Avoid contact with skin and eyes. In case of accidental contact with eyes (if wearing contact lenses remove), wash with running water for at least 15 - 20 minutes. In case of accidental contact with skin take off contaminated clothing, wash all contaminated parts with plenty of water and soap. Seek medical attention if eye and skin irritation persist.

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 rinsate 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 during handling, storage, or disposal.

## RELEVANT SUBSTANCES:

COMPONENT	CAS No.	Concentration (% w/w)
Sulfoxaflor (ISO)	946578-00-3	21,8
Unknown(s) - Sulfonated aromatic polymer, sodium salt for 300000000578, 300000000299	Not Assigned	>= 1 - < 2,5
1,2-benzisothiazol-3(2H)-one	2634-33-5	>= 0,0025 - < 0,025

## **FIRST AID MEASURES:**

### **Inhalation**

Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration, if by mouth-to-mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

### **Skin contact**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

### **Eye contact**

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.

### **Ingestion**

No emergency medical treatment necessary.

## **Insecticide Resistance Management (IRM)**

The classification scheme of insecticides is based on "mode of action" **CLOSER® 240 SC** is classified as a Group 4C insecticide. Do not exceed 4 (four) applications of **CLOSER® 240 SC** 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 **CLOSER® 240 SC** and other Group 4C insecticides. The resistant individuals will eventually dominate the insect population if these insecticides are used repeatedly over long periods or against consecutive generations. **CLOSER® 240 SC** or other Group 4 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 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:**

**CLOSER® 240 SC** can be recommended for IPM programmes in various crops. **CLOSER® 240 SC** should be applied when field scouting/monitoring indicates target pest populations have reached the economic threshold. Other than reducing the target pest species as a food source, **CLOSER® 240 SC** used under GAP has an excellent fit because it has minimal impact on certain parasitic or predaceous insects and mites, including ladybirds, lacewings, assassin bugs, predatory mites, etc.

The feeding activities of these beneficial arthropods will aid in the extended natural control of other insects and reduce the likelihood of secondary pest outbreaks for which additional insecticide treatments may be needed.

If **CLOSER® 240 SC** is tank mixed with other insecticides, less selective in conserving beneficial predatory insects, then the full benefit of **CLOSER® 240 SC** to the IPM programme may be reduced.

#### **DIRECTIONS FOR USE:**

**Use only as indicated**

**CLOSER® 240 SC** is a suspension concentrate insecticide, which should be mixed with water and applied as a foliar spray with ground equipment equipped for conventional insecticide application. **CLOSER® 240 SC** works by translaminar and systemic activity. Proper coverage of the target area is important.

#### **MIXING INSTRUCTIONS:**

##### **Mixing CLOSER® 240 SC alone:**

Fill the spray tank with water to about half of the total spray volume required. Start agitating and add the required amount of **CLOSER® 240 SC** (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 dispersion and 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 **CLOSER® 240 SC** in muddy water. **CLOSER® 240 SC** performance is not affected if the pH of the spray mixture is maintained between 4-9. Spray mixtures with a low pH (pH 4 and below) may decrease the residual performance of **CLOSER® 240 SC**. Buffer agents are generally not needed. Acidifiers or products that will acidify the spray mixture below pH 4 (e.g., phosphonates, high rates of foliar fertilizers, etc.) should be avoided or buffered back to pH 4-9.

**CLOSER® 240 SC** compatibility with other agrochemicals has not been tested.

##### **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. Half fill spray tank with water and maintain agitation. 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. **CLOSER® 240 SC** and other 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 re-suspended before spraying is resumed. A back flow sparer 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 20 – 35 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 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 **CLOSER® 240 SC**. 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 Fruit tree crops:**

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

**Deciduous fruit trees:**

**CLOSER® 240 SC** 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).

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

\*(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

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

CROP/PEST	DOSAGE	REMARKS
<p><b>CRUCIFERAE/ BRASSICA VEGETABLES</b> (Brussels sprouts, broccoli, cabbage (including all varieties), kale, kholrabi, cauliflower, pakchoi and collards)</p> <p>Aphids (<i>Myzus persicae</i> and various others)</p> <p>Whitefly (<i>Bemisia tabaci</i>)</p>	<p>100 ml / ha</p> <p>250 ml / ha</p>	<p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at first signs of infestation, and repeat application 14 days later if necessary.</p> <p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at the first signs of infestation and repeat applications at 7 – 10 day intervals. Apply a minimum of two (2) consecutive <b>CLOSER® 240 SC</b> applications to ensure effective control of the pest. A spray programme needs to be followed for control of Whitefly. Rotate to insecticides with a different mode of action for additional control measures.</p> <p><b><u>RESISTANCE MANAGEMENT:</u></b> Do not exceed four (4) applications of <b>CLOSER® 240 SC</b> in total per season to any field of cabbages. Use registered insecticides with a different mode of action for further control measures.</p>

CROP/PEST	DOSAGE	REMARKS
<p><b>CITRUS</b> Citrus thrips (<i>Scirtothrips aurantii</i>)</p> <p>Mealybug species</p>	<p>12 ml / 100L water</p> <p>12 ml / 100L water</p>	<p>Commence spraying at 100% 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. The use of DELEGATE® 250 WG as anti-resistance partner is strongly advised.</p> <p>Apply <b>CLOSER® 240 SC</b> at 100% petal fall or first signs of crawler movement, as a high-volume full cover application, and apply a follow-up application 6 weeks later. Ensure thorough coverage.</p> <p><b>Resistance Management:</b> Do not exceed three (3) applications in total per season to any one block of citrus. Do not apply more than 1,25 L/ha (300 gai/ha) of <b>CLOSER® 240 SC</b> per season. Use registered insecticides with a different mode of action for further control measures.</p>
<p><b>CUCURBITS</b> (melons, musk melons, butternuts, cantaloupes, watermelon, pumpkins, squashes [including summer and winter squash], patty pans, gourds, zucchini, cucumbers, and gherkins) Whitefly (<i>Bemisia tabaci</i>)</p>	<p>250 ml / ha</p>	<p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at the first signs of infestation and repeat applications at 7 – 10 day intervals. Apply a minimum of two (2) consecutive <b>CLOSER® 240 SC</b> applications to ensure effective control of the pest. A spray programme needs to be followed for control of Whitefly. Rotate to insecticides with a different mode of action for additional control measures.</p> <p><b>RESISTANCE MANAGEMENT:</b> Do not exceed four (4) applications of <b>CLOSER® 240 SC</b> in total per season to any field of cucurbits. Use registered insecticides with a different mode of action for further control measures.</p>



CROP/PEST	DOSAGE	REMARKS
<p><b>LETTUCE</b> Aphids (<i>Myzus persicae</i> and various others)</p> <p>Whitefly (<i>Bemisia tabaci</i>)</p>	<p>100 ml / ha</p> <p>250 ml / ha</p>	<p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at first signs of infestation, and repeat application 14 days later if necessary.</p> <p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at the first signs of infestation and repeat applications at 7 – 10 day intervals. Apply a minimum of two (2) consecutive <b>CLOSER® 240 SC</b> applications to ensure effective control of the pest. A spray programme needs to be followed for control of Whitefly. Rotate to insecticides with a different mode of action for additional control measures.</p> <p><b>RESISTANCE MANAGEMENT:</b> Do not exceed four (4) applications of <b>CLOSER® 240 SC</b> in total per season to any field of lettuce. Use registered insecticides with a different mode of action for further control measures.</p>
<p><b>PEPPERS</b> Whitefly (<i>Bemisia tabaci</i>)</p>	<p>250 ml / ha</p>	<p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at the first signs of infestation and repeat applications at 7 – 10 day intervals. Apply a minimum of two (2) consecutive <b>CLOSER® 240 SC</b> applications to ensure effective control of the pest. A spray programme needs to be followed for control of Whitefly. Rotate to insecticides with a different mode of action for additional control measures.</p> <p><b>RESISTANCE MANAGEMENT:</b> Do not exceed four (4) applications of <b>CLOSER® 240 SC</b> in total per season to any field of peppers. Use registered insecticides with a different mode of action for further control measures.</p>

CROP/PEST	DOSAGE	REMARKS
<p><b>POME FRUIT APPLES AND PEARS</b> Mealybug (<i>Pseudococcus spp</i>)</p> <p>Woolly Apple Aphid (<i>Eriosoma lanigerum</i>)</p>	<p>12 ml / 100L water</p> <p>12 ml / 100L water</p>	<p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover application ensuring good coverage. For optimal control of mealybug, it is advisable to spray <b>CLOSER® 240 SC</b> in a programme starting with a full-cover application three (3) weeks before budswell/green tip stage with <b>CLOSER® 240 SC</b> at the registered dosage. This application can be followed by <b>CLOSER® 240 SC</b> at the budswell/green tip stage. If crawler movement occurs after these applications, an additional <b>CLOSER® 240 SC</b> application can be made prior to entry of mealybug crawlers into the calyx of the fruit.</p> <p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover application.</p> <p>Apply in December when crawler movement begins or when first symptoms of aphid presence is noticed. This application will contribute to mealybug control.</p> <p>If necessary, do a follow-up application 14 days later.</p> <p><b>Resistance Management:</b> Do not exceed two (2) applications of <b>CLOSER® 240 SC</b> in total per season to any one block of apples or pears. Use registered insecticides with a different mode of action for further control measures.</p>

CROP/PEST	DOSAGE	REMARKS
<b>POTATOES</b> Aphids ( <i>Myzus persicae</i> )	100 ml / ha	Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at first signs of infestation, and repeat application 14 days later if necessary. The volume of spray mixture to be applied per hectare depends on the plant size and plant density.  <u><b>Resistance Management:</b></u> Do not exceed three (3) applications of <b>CLOSER® 240 SC</b> per season to any field of potatoes. Use registered insecticides with a different mode of action for further control measures.
<b>STONE FRUIT – PEACHES, NECTARINES AND PLUMS</b> Aphids ( <i>Myzus persicae</i> )	5 ml / 100L water	Apply <b>CLOSER® 240 SC</b> as a high volume, full cover application. Apply at first signs of infestation. Do a follow up application if necessary.  <u><b>Resistance Management:</b></u> Do not exceed three (3) applications of <b>CLOSER® 240 SC</b> in total per season to any one block of peaches, nectarines, or plums. Use registered insecticides with a different mode of action for further control measures.
<b>STRAWBERRIES</b> Aphids ( <i>Chaetosiphon fragaefolii</i> )	100 ml / ha	Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at first signs of infestation, and repeat application 14 days later if necessary.  <u><b>Resistance Management:</b></u> Do not exceed three (3) applications of <b>CLOSER® 240 SC</b> per season to any field of strawberries. Use registered insecticides with a different mode of action for further control measures.

CROP/PEST	DOSAGE/	REMARKS
<p><b>TABLE GRAPES</b> Thrips Western Flower Thrip (<i>Frankliniella occidentalis</i>)</p>	<p>12 ml / 100L water</p>	<p>The presence of thrips and their coupled damage on grapes occur mainly during the period of early flowering to shortly after flowering. In some areas and under certain conditions (hot and dry weather) thrips occur at a later stage during the season. The presence of thrip should be monitored on a regular basis and control measures should be considered when scouting indicates infestations.</p> <p>Apply <b>CLOSER® 240 SC</b> as a high-volume cover application when flowerhoods start detaching. Under high infestation pressure or an extended flowering period, a follow-up application within 7 – 10 days may be necessary to obtain adequate protection. To prevent the development of resistance, rotate to Tracer 480 SC or Delegate 250 WG for follow up applications.</p> <p><b><u>Resistance Management:</u></b> Do not exceed three (3) applications of <b>CLOSER® 240 SC</b> in total per season to any one block of grapes. Use registered insecticides with a different mode of action for further control measures.</p>
<p><b>TABLE AND WINE GRAPES</b> Mealybug (<i>Pseudococcus spp</i>)</p>	<p>12 ml / 100L water</p>	<p>Apply <b>CLOSER® 240 SC</b> as a high-volume cover application as soon as crawlers are detected at the base of the shoots or leaves, followed by an additional application of <b>CLOSER® 240 SC</b> within 21-30 days under high infestation pressure. Ensure thorough coverage. As <b>CLOSER® 240 SC</b> will only give 4 weeks control, additional control measures need to be implemented should re-infestation occur.</p>

CROP/PEST	DOSAGE/	REMARKS
<b>TABLE AND WINE GRAPES</b> (cont.)		<p>For optimal control, dormant applications of <b>CLOSER® 240 SC</b> should precede summer applications. A registered wetter or mineral oil can be added to the high-volume winter application to increase wetting and spreading, and thereby overall bark penetration.</p> <p><b><u>Resistance Management:</u></b> Do not exceed three (3) applications of <b>CLOSER® 240 SC</b> in total per season to any one block of grapes. Use registered insecticides with a different mode of action for further control measures.</p>
<b>TOMATOES</b> Tomato Whitefly ( <i>Bemisia tabaci</i> )	250 ml / ha	<p>Apply <b>CLOSER® 240 SC</b> as a high volume, full cover spray at the first signs of infestation and repeat applications at 7 – 10 day intervals. Apply a minimum of two (2) consecutive <b>CLOSER® 240 SC</b> applications to ensure effective control of the pest. A spray programme needs to be followed for control of Whitefly. Rotate to insecticides with a different mode of action for additional control measures.</p> <p><b><u>RESISTANCE MANAGEMENT:</u></b> Do not exceed four (4) applications of <b>CLOSER® 240 SC</b> in total per season to any field of tomatoes. Use registered insecticides with a different mode of action for further control measures.</p>

CROP/PEST	DOSAGE	REMARKS
<b>TREE NUTS</b> (Almonds, Cashews, Chestnuts, Hazelnuts, macadamia nuts, Pecan nuts, Pistachio nuts, Walnuts, coconuts, Brazil nuts and Pine nuts) Mealybug (Pseudococcus spp.)	12 ml / 100L water	Apply <b>CLOSER® 240 SC</b> as a high volume, full cover application ensuring good coverage. Apply at first signs of infestation, preferably at crawler movement stage. Repeat application six weeks later.  <b>RESISTANCE MANAGEMENT:</b> Do not exceed two (2) applications of <b>CLOSER® 240 SC</b> in total per season to any macadamia orchard. Use registered insecticides with a different mode of action for further control measures.
<b>MACADAMIA NUTS</b> Felted coccid ( <i>Eriococcus ironsidei</i> )	12 ml / 100L water	Apply <b>CLOSER™ 240 SC</b> as a high volume, full cover application ensuring good coverage. Apply at first signs of infestation, preferably at crawler movement. Repeat application 14 days later.  <b>RESISTANCE MANAGEMENT:</b> Do not exceed 2 applications of <b>CLOSER™ 240 SC</b> in total per season to any macadamia orchard. Use registered insecticides with a different mode of action for further control measures.

THE FOLLOWING PRODUCTS MAY REPLACE **CLOSER® 240 SC** FOR PEST RESISTANCE MANAGEMENT

DELEGATE® 250 WG (Reg. No. L8392)  
 TRACER® 480 SC (Reg No. L6557)

**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

### **RISIKOVERKLARING:**

Giftig vir akwatiese flora en fauna, met langdurige effek.

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

Appels .....	7 dae
Aarbeie .....	1 dag
Aartappels .....	21 dae
Blaarslaai .....	3 dae
Boomneute (amandels, kasjoeneute, haselneute, makadamia neute, pekanneute, pistachioneute, okkerneute, klapperneute, brasilaanse neute en denneneute) .....	14 dae
Koolgewasse (brussels spruite; brokkoli, kool (insluitend alle variëte), boerenkool, koolraap, blomkool, "pakchoi" en "collards") .....	3 dae
Nektariens .....	14 dae
Pampoengewasse (spanspek, botterskorsie, waatlemoen, pampoene, skorsies [insluitend somer en winter skorsies], "patty pans", kalbas, murgpampoene, komkommers en agurkies) .....	1 dag
Pere .....	7 dae
Perskes .....	14 dae
Pruime .....	14 dae
Soetrissies .....	1 dag
Sitrus .....	21 dae
Tamaties .....	3 dae
Wingerd .....	28 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.

- Hanteer die produk versigtig.
- Mag moontlike oogirritasie veroorsaak.
- Bye:
  - ❖ Hierdie produk is giftig vir bye wanneer hul aan direkte bespuiting, of nat spuitresidu, blootgestel word.
  - ❖ Moenie direk op kolonies of bye wat aktief voed, spuit nie.
  - ❖ **CLOSER® 240 SC** sal nie met die aktiwiteit van bye inmeng na die spuitstof afgedroog het 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.
  - ❖ Studies het bewys dat daar geen nuwe effekte op byekorwe is nie.

Stel bure, byeboere asook plaaslike voorligters in kennis voordat in die nabyheid van gewasse in blom, toegedien word.

- 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.

### **VRYWARING:**

**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**

#### **VOORKOMENDE VERKLARINGS:**

Versamel verspilde produk.

Raak ontslae van houers en/of inhoud in ooreenstemming met toepaslike regulasies.

Berg altyd in die oorspronklike ge-etiketeerde houers. Die houers 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 sproeiwater.

Was met water en seep na hantering.

Dra beskermende klere bv. handskoene en 'n gesigskerm wanneer hanteer word.

Vermy vel- en oogkontak. In geval van toevallige oogkontak (verwyder kontaklense indien gebruik word) spoel oë met lopende water vir ongeveer 15 - 20 minute. In geval van toevallige kontak met vel moet gekontamineerde klere verwyder word en alle dele wat in kontak was met baie water en seep gewas word. 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 spuitwater 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 spuitenk. 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.

## **RELEVANTE STOWWE**

<b>KOMPONENT</b>	<b>CAS No.</b>	<b>Konsentrasie (% w/w)</b>
Sulfoksaflor (ISO)	946578-00-3	21,8
Onbekend(e) - Gesulfoneerde aromatiese polimeer, natrium sout vir 300000000578, 300000000299	Nie toegeken nie	>= 1 - < 2,5
1,2-bensisotiasool-3(2H)-een	2634-33-5	>= 0,0025 - < 0,025

## **EERSTEHULP:**

### **Inaseming:**

Verskuif persoon na vars lug toe. Indien persoon nie asemhaal nie, ontbied 'n noodreaksie span of ambulans, dien kunsmatige asemhaling toe, indien mond-tot-mond asemhaling toegepas word, gebruik die noodbeskermings masker, ens. Kontak 'n gifbeheersentrum of geneesheer vir mediese advies.

### **Velkontak:**

Verwyder besmette klere. Spoel vel onmiddellik met genoeg water vir ongeveer 15-20 minute. Kontak 'n gifbeheersentrum of geneesheer vir mediese behandelingsadvies.

### **Oogkontak**

Hou oë oop en spoel stadig en sagkens met water vir 15-20 minute. Verwyder kontaklense, indien gedra word, na die eerste 5 minute, hou aan om oë met water te spoel. Ontbied 'n gifbeheersentrum of geneesheer vir behandelingsadvies. Behoorlike nood oogwasfasiliteit behoort by werksarea beskikbaar te wees.

### **Inname**

Geen nood mediese behandeling is nodig nie.

## Weerstandbestuur van insekmiddels

Insekdoders word geklassifiseer op grond van hul werkingswyse. ("Mode of Action"). **CLOSER® 240 SC** is geklassifiseer as 'n 4C insekdoder. Moenie **CLOSER® 240 SC** 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 **CLOSER® 240 SC** of ander insekdoders binne dieselfde chemiese groep insluit. Indien **CLOSER® 240 SC**, 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 **CLOSER® 240 SC**, 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 Plaagbestuursprogram (GPB)

**CLOSER® 240 SC** kan in GPB programme van verskeie gewasse aanbeveel word, veral waar die voorkoms van plaegemonitor word en toedienings eers oorweeg word wanneer die ekonomiese drempelwaarde vir die plaeg op die betrokke gewas bereik is.

Behalwe dat **CLOSER® 240 SC** die plaeg wat as voedselbron vir voordelige insekte dien, beheer, het **CLOSER® 240 SC** 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 **CLOSER® 240 SC** as "skadelik" vir parasiete geklassifiseer word, het veldstudies getoon dat populasies weer vinnig na bespuiting herstel.

Indien **CLOSER® 240 SC** met ander insekdoders, wat die selektiwiteit van **CLOSER® 240 SC** ten opsigte van die voordelige insekte benadeel, gemeng word, sal die voordeel van **CLOSER® 240 SC** in die GPB program nie ten volle benut kan word nie.

## **GEBRUIKSAANWYSINGS:**

**Gebruik slegs soos aangedui.**

**CLOSER® 240 SC** is 'n suspensie konsentraat insekdoder wat met water vermeng moet word om deur middel van konvensionele spuitapparaat as looftoedienings op plante toegedien te word.

**CLOSER® 240 SC** werk deur middel van sistemiese aksie. Goeie bedekking van die teikenarea is belangrik.

### **Menginstruksies:**

#### **CLOSER® 240 SC alleen:**

Vul die spuittenk tot die helfte van die totale volume water benodig. Voeg die verlangde hoeveelheid **CLOSER® 240 SC** 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 **CLOSER® 240 SC** met modderige water vermeng nie. Die werking van **CLOSER® 240 SC** word nie geaffekteer indien 'n pH van 4-9 gehandhaaf word. Spuitmengsels met 'n lae pH waarde (< pH 4) mag die residuele werking van **CLOSER® 240 SC** benadeel. Buffermiddels is oor die algemeen nie nodig nie. Versuringsmiddels of produkte wat die spuitmengsel tot onder pH 4 sal versuur (bv. Fosfonate, hoë konsentrasies van blaarvoedings, ens.) moet vermy word, of herstel word tot 'n pH van 4-9.

Die mengbaarheid van **CLOSER® 240 SC** met ander produkte is nie getoets nie.

#### **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 formulasie in die volgende volgorde:

1. Vul spuittenk met water (50 % vol), terwyl deurlopend geroer word, voeg dan die ander formulasies soos volg by:
2. Water dispergeerbare korrels (WG) (Na vooraf vermenging met water).
3. Benatbare poeiers (WP) of waterdispergeerbare poeiers (WS) (Na vooraf vermenging met water).
4. **CLOSER® 240 SC** en ander 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

Dispergeerbare korrel (WG) en benatbare poeier (WP) formulasies kan vooraf met water tot 'n pasta vermeng word en deur 'n 20 – 30 maas sif, by die spuitwater gevoeg word. Die prosedure verleen sodoende 'n goeie aanvanklike dispergering van die formulasie soorte.

**REËNVASTHEID:** Vermy 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 **CLOSER® 240 SC** per ha toegedien word om optimum beheer van insekplae te verseker. Vir die doeltreffende toediening van **CLOSER® 240 SC** 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 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: CLOSER® 240 SC** 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 Behoeftte (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

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

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<b>AARTAPPELS</b> Plantluise ( <i>Myzus persicae</i> )	100 ml/ha	<p>Dien <b>CLOSER® 240 SC</b> as 'n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toediening 14 dae later indien nodig. Die spuitvolume wat toegedien moet word per hektaar hang af van die plantgrootte en plantdigtheid.</p> <p><b>Weerstandstrategie:</b>            As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as drie (3) maal per seisoen op enige aartappelland toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<b>AARBEIE</b> Plantluise ( <i>Chaetosiphon fragaefolii</i> )	100 ml/ha	Dien <b>CLOSER® 240 SC</b> as 'n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toediening 14 dae later indien nodig. <b>Weerstandstrategie:</b> As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as drie (3) maal per seisoen op enige aarbeiland toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.
<b>BLAARSLAAI</b> Plantluise ( <i>Myzus persicae</i> )  Witvlieg ( <i>Bemesia tabaci</i> )	100 ml/ha  250 ml/ha	Dien <b>CLOSER® 240 SC</b> as 'n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toediening 14 dae later indien nodig. Die spuitvolume wat toegedien moet word per hektaar hang af van die plantgrootte en plantdigtheid.  Dien <b>CLOSER® 240 SC</b> as 'n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toedienings met 7 – 10 dae tussenposes. Dien ten minstens twee (2) agtereenvolgende toedienings van <b>CLOSER® 240 SC</b> toe om effektiewe plaagbeheer te verseker. 'n Spuitprogram moet gevolg word vir beheer van Witvlieg. Vir addisionele beheermaatreëls moet insekdoders met 'n ander werkingswyse gebruik word.  <b>Weerstandstrategie:</b> As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as vier (4) maal per seisoen op enige blaarslaailand toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<p><b>BOOMNEUTE</b> (Amandels, Kasjoeneute, Haselneute, Makadamia neute, Pekanneute, Pistachioneute, Okkerneute, Klapperneute, Brasiliaanse neute en Denneneute) Witluis (<i>Pseudococcus spp.</i>)</p>	<p>12 ml</p>	<p>Dien <b>CLOSER® 240 SC</b> as n hoë volume voldekbepuiting toe sodra plaag opgemerk word, verkieslik tydens kruiperbeweging. Deeglike bedekking noodsaaklik. Herhaal toediening ses weke later.</p> <p><b>Weerstandstrategie:</b> As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as twee (2) maal per seisoen op enige makadamiaboord toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>
<p><b>MAKADAMIA NEUTE</b> Gevulde kokkie (<i>Eriococcus ironsidei</i>)</p>	<p>12 ml</p>	<p>Dien <b>CLOSER® 240 SC</b> as n hoë volume voldekbepuiting toe sodra plaag opgemerk word, verkieslik tydens kruiperbeweging. Deeglike bedekking noodsaaklik. Herhaal toediening twee weke later.</p> <p><b>Weerstandstrategie:</b> As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as twee 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
<p><b>KERNVRUGTE APPELS EN PERE</b> Witluis (<i>Pseudococcus spp.</i>)</p>           <p>Appelwolluis (<i>Eriosoma lanigerum</i>)</p>	<p>12 ml</p>           <p>12 ml</p>	<p>Dien <b>CLOSER® 240 SC</b> as 'n voldekbepuiting toe. Vir optimale beheer van witluis is dit raadsaam om <b>CLOSER® 240 SC</b> in 'n spuitprogram toe te dien. Dien toe as voor-blom toediening drie (3) weke voor knoppieswel/groenpunt stadium. Volg op met 'n tweede toediening by knoppieswel/groenpunt stadium met <b>CLOSER® 240 SC</b>.</p> <p>Indien kruiperbeweging plaasvind na bogenoemde toedienings kan 'n addisionele toediening van <b>CLOSER® 240 SC</b> gemaak word wanneer kruiperbeweging begin, voordat kruipers onder calyx van vrugte inbeweeg.</p> <p>Dien <b>CLOSER® 240 SC</b> as 'n voldekbepuiting toe.</p> <p>Dien toe in Desember wanneer kruiperbeweging begin en eerste tekens van wolluis opgemerk word. Hierdie toediening sal bydra tot witluis beheer.</p> <p>Doen 'n opvolgbespuiting 14 dae later toe, indien nodig.</p> <p><b>Weerstandstrategie:</b> As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as twee (2) maal per seisoen op enige blok appels of pere toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>



GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<p><b>KOOLGEWASSE</b>  <b>(Brusselse spruite; brokkoli, kool (insluitend alle variëte), boerenkool, koolraap, blomkool, “pakchoi” en “collards”)</b>  Plantluise  (<i>Myzus persicae</i>)</p> <p>Witvlieg  (<i>Bemisia tabaci</i>)</p>	<p>100 ml/ha</p> <p>250 ml/ha</p>	<p>Dien <b>CLOSER® 240 SC</b> as ‘n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toediening 14 dae later indien nodig. Die spuitvolume wat toegedien moet word per hektaar hang af van die plantgrootte en plantdigtheid.</p> <p>Dien <b>CLOSER® 240 SC</b> as ‘n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toedienings met 7 – 10 dae tussenposes. Dien ten minstens twee (2) agtereenvolgende toedienings van <b>CLOSER® 240 SC</b> toe om effektiewe plaagbeheer te verseker. ‘n Spuitprogram moet gevolg word vir beheer van Witvlieg. Vir addisionele beheermaatreëls moet insekdoders met ‘n ander werkingswyse gebruik word.</p> <p><b><u>Weerstandstrategie:</u></b>  As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as vier (4) maal per seisoen op enige koolland toegedien word nie. Gebruik geregistreerde insekdoders met ‘n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<p><b>PAMPOENGEWASSE</b>  (spanspek, botterskorsie, waatlemoen, Pampoene, skorsies [insluitend somer en winter skorsies], "patty pans", kalbas, murgpampoene, komkommers en agurkies)  Witvlieg  (<i>Bemisia tabaci</i>)</p>	<p>250 ml/ha</p>	<p>Dien <b>CLOSER® 240 SC</b> as 'n hoë volume voldekbepuiting toe sodra plaag opgemerk word. Herhaal toedienings met 7 – 10 dae tussenposes. Dien ten minstens twee (2) agtereenvolgende toedienings van <b>CLOSER® 240 SC</b> toe om effektiewe plaagbeheer te verseker. 'n Suijprogram moet gevolg word vir beheer van Witvlieg. Vir addisionele beheermaatreëls moet insekdoders met 'n ander werkingswyse gebruik word.</p> <p><b><u>Weerstandstrategie:</u></b>  As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as vier (4) maal per seisoen op enige pampoengewasland toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<b>SITRUS</b>  Sitrus Blaaspootjie ( <i>Scirtothrips Aurantii</i> )          Witluis spesies	12 ml          12 ml	<p>Begin met toediening sodra blaaspootjies by 100 % blomblaarval waargeneem word. Dien toe as 'n ligte dekbepuiting. Deeglike bedekking van die teikenarea is noodsaaklik. Herhaal toediening indien nodig.</p> <p>Die gebruik van Delegate 250 WG in spuitprogram as anti-weerstandstrategie word aanbeveel.</p> <p>Dien <b>CLOSER® 240 SC</b> by 100 % blomblaarval, of eerste tekens van kruiperbeweging, toe as 'n hoë volume, voldekbepuiting. Herhaal toediening na ses (6) weke.</p> <p><b><u>Weerstandstrategie:</u></b>            As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as drie (3) maal per seisoen op enige blok sitrus toegedien word nie. Moet nie meer as 1,25 L / ha (300 g a.i./ha) <b>CLOSER® 240 SC</b> per seisoen toedien nie. Gebruik geregistreerde insekdoders met verskillende werkingswyse vir verdere beheermaatreëls.</p>

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<b>SOETRISSIES</b> Witvlieg ( <i>Bemisia tabaci</i> )	250 ml/ha	<p>Dien <b>CLOSER® 240 SC</b> as 'n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toedienings met 7 – 10 dae tussenposes. Dien ten minstens twee (2) agtereenvolgende toedienings van <b>CLOSER® 240 SC</b> toe om effektiewe plaagbeheer te verseker. 'n Suijprogram moet gevolg word vir beheer van Witvlieg. Vir addisionele beheermaatreëls moet insekdoders met 'n ander werkingswyse gebruik word.</p> <p><b>Weerstandstrategie:</b>  As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as vier (4) maal per seisoen op enige soetrissieland toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>
<b>STEENVRUGTE PERSKES, NEKTARIENS EN PRUIME</b> Plantluise ( <i>Myzus persicae</i> )	5 ml	<p>Dien <b>CLOSER® 240 SC</b> as 'n voldekbespuiting toe. Dien toe sodra plantluis opgemerk word. Dien 'n opvolgbespuiting toe indien nodig.</p> <p><b>Weerstandstrategie:</b>  As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as drie (3) maal per seisoen op enige blok Steenvrugte toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<p><b>TAFELDRUIWE</b>            Blaaspootjies, insluitend WFT (“Western Flower Thrip”)            (<i>Frankliniella occidentalis</i>)</p>	<p>12 ml</p>	<p>Blaaspootjies se voorkoms en gepaardgaande skade by Tafeldruiwe word gewoonlik tydens blom aangerig. In sommige areas en onder sekere toestande (bv. warm en droë toestande) kom blaaspootjies ook later in die seisoen voor. Die teenwoordigheid van blaaspootjies moet dus deurlopend gemonitor word en beheermaatreëls moet dienoorkomstig toegepas word.</p> <p><b>CLOSER® 240 SC</b> moet as ‘n hoë volume dekbespuiting toegedien word aan die begin van kappieval. Onder hoëdruk situasies of ‘n verlengde blomperiode, moet ‘n opvolgbespuiting 7 – 10 dae later toegedien word om korrelbeskerming te verseker. Tracer 480 SC of Delegate 250 WG kan gebruik word vir opvolgbespuitings as deel van weerstandstrategie.</p> <p><b><u>Weerstandstrategie:</u></b>            As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as drie (3) maal per seisoen op enige wingerdblok toegedien word nie. Gebruik geregistreerde insekdoders met ‘n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<p><b>TAFEL- EN WYNDRUIWE</b>            Witluis            (<i>Planococcus ficus</i>)</p>	<p>12 ml</p>	<p><b>CLOSER® 240 SC</b> moet as 'n hoë volume voldekbepuiting toegedien word sodra kruipers waargeneem word aan die basis van lote en blare. Onder hoë infestasiedruk volg op met 'n addisionele toediening van <b>CLOSER® 240 SC</b> 21-30 dae later. Dien genoegsame spuitvolume toe om goeie bedekking te verseker. Aangesien beheer van maksimum 4 weke verwag kan word, moet addisionele beheermaatreëls toegepas word indien daar herinfestasië plaasvind.</p> <p>'n Geregistreeerde benatter of minerale olie kan by die hoë volume winterbespuiting gevoeg word om benatting, verspreiding en baspenetrasië te verbeter.</p> <p><b><u>Weerstandstrategie:</u></b>            As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as drie (3) maal per seisoen op enige wingerdblok toegedien word nie. Gebruik geregistreeerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

GEWAS/PLAAG	DOSIS/100 l WATER	OPMERKINGS
<b>TAMATIES</b> Witvlieg ( <i>Bemisia tabaci</i> )	250 ml/ha	<p>Dien <b>CLOSER® 240 SC</b> as 'n hoë volume voldekbespuiting toe sodra plaag opgemerk word. Herhaal toedienings met 7 – 10 dae tussenposes. Dien ten minstens twee (2) agtereenvolgende toedienings van <b>CLOSER® 240 SC</b> toe om effektiewe plaagbeheer te verseker. 'n S spuitprogram moet gevolg word vir beheer van Witvlieg. Vir addisionele beheermaatreëls moet insekdoders met 'n ander werkingswyse gebruik word.</p> <p><b>Weerstandstrategie:</b>  As weerstandstrategie moet <b>CLOSER® 240 SC</b> nie meer as vier (4) maal per seisoen op enige Tamatieland toegedien word nie. Gebruik geregistreerde insekdoders met 'n ander werkingswyse wanneer verdere beheermaatreëls benodig word.</p>

DIE VOLGENDE PRODUKTE MAG GEBRUIK WORD OM **CLOSER® 240 SC** TE VERVANG AS WEERSTANDSTRATEGIE:

DELEGATE® 250 WG (Reg. No. L8392)  
TRACER® 480 SC (Reg No. L6557)

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