

MERIDIAN

Reg. No. L7824 Act / Wet No. 36 of / van 1947

A water-dispersible systemic granular insecticide with stomach and contact action for the control of aphid (roses and cypress), juvenile mole cricket and white grub (lawns and turf), woolly apple aphid (apples), red scale (citrus), white fly (tomatoes) and mango scale, mealy bug and mango seed weevil (mangoes).

INSECTICIDE GROUP D INSEKODODER GROEP

Active ingredient:
thiamethoxam (neonicotinoid) 250 g/kg

3 g

Registration holder:
Syngenta South Africa (Pty) Limited
(Co. Reg. No. 1998/013761/07)
Private Bag X 60
HALFWAY HOUSE, 1685
RSA
Tel. (011) 541-4000

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EMERGENCY TEL.: ++ 27 (0) 8312 33 911 (Bateleur 911)

Batch No.
Date of manufacture

UN. Not classified



Green

1. WARNINGS

Allow the following number of days between last application and harvest of the crop:

Apples 119 days
Citrus 176 days
Mangoes 130 days
Tomatoes 4 days

- Handle with care.
- Toxic to bees.
- Do not apply as a foliar spray when honeybees are present.
- Store away from food, feed and drinking water.
- Keep out of reach of children, uninformed persons and animals.
- Store away from sun and damp. Store in original closed container in a good ventilated area.
- Avoid storage below 0°C and above 35°C.
- **Re-entry:** 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 guarantee that it will be effective under all conditions. The activity and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of pest against the remedy, 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 by the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS

- Avoid contact with eyes.
- Wear protective clothes: Rubber gloves when mixing as well as overalls, shoes and rubber gloves during application.
- Wash with soap and water after use and accidental contact with skin.
- In case of eye contact, rinse the eyes with clean water for 15 minutes.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Prevent contamination of food, feed, drinking water and eating utensils.

2.1 ENVIRONMENT

- Spillage: Soak up with sand, sawdust or soil and shovel into waste containers.
- Do not contaminate stagnant or running water by disposal of waste.

2.2 DISPOSAL

- Clean spray equipment after use.
- Dispose of excess pesticide, spray mixture or rinsate where it will not contaminate crops, grazing, rivers, dams or boreholes.
- Empty container completely. Rinse the empty container three times with clean water and add the rinsate each time to the spray mixture in the spray tank.
- Dispose of empty container.
- Do not use the empty container for any other purpose.

3. RESISTANCE MANAGEMENT

For resistance management, **MERIDIAN** is a group code D insecticide. Any insect population may contain individuals naturally resistant to **MERIDIAN** and other group code D insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly and exclusively in programs. These resistant insects may not be controlled by **MERIDIAN** or any other group code D insecticide.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes.
- Refer to individual product labels when alternating products.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

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

4. USE RESTRICTIONS

APPLES:

- **MERIDIAN** must only be applied as a soil drench application.
- **MERIDIAN** must only be applied to healthy, actively growing trees.

CITRUS:

- **MERIDIAN** must only be applied as a soil drench application.
- **MERIDIAN** must only be applied on healthy, vigorously growing, stress free trees that have a well-developed root system.
- The efficacy of **MERIDIAN** can be reduced on soils with high clay content (above 25%).
- The efficacy of **MERIDIAN** can be limited by any factor that impairs optimal sap flow in the trees, e.g. drought stress, branches that are bent or were bent earlier.
- Sometimes poor red scale control can occur on a branch or side shoot in a tree, despite treatment with **MERIDIAN**.
- **MERIDIAN** must not be used on lemons or limes, unless trees have been stripped of all existing fruit.

MERIDIAN / 2

LAWNS:

- Excessive thatch may reduce the efficacy of **MERIDIAN**.

MANGOES:

- MERIDIAN** must only be applied as a soil drench application.
- MERIDIAN** must only be applied to healthy, actively growing trees.

ROSES:

- MERIDIAN** must not be applied more than twice per season.

TOMATOES:

- MERIDIAN** must not be applied more than twice per season.

DIRECTIONS FOR USE

Use only as directed

MIXING INSTRUCTIONS

- Half fill spray tank with clean water and add the required quantity of **MERIDIAN** as indicated in the Application Rates Table. Dissolve **MERIDIAN** completely, ensure agitation during application.
- Apply as soon as possible after mixing. Do not prepare more mixture than is needed for the immediate use.

APPLICATION TECHNIQUES

Lawn and turf spray application

- Ensure sprayer is correctly calibrated and equipped with a suitable spray nozzle to deliver an even distribution of the spray mix.
- Avoid spraying during the heat of the day or when dew is present.
- Irrigate as soon as possible after application to wash the **MERIDIAN** into the soil.

Foliar application (Roses only)

- Knapsack sprayers and motorised mist blowers are recommended. Ensure thorough wetting of plants. Plants with dense foliage will require higher spray volumes for thorough wetting.

Drench application

- Remove all weeds and debris under the tree and make a well around the trunk. Apply around the entire base of the trunk. Irrigate within one day of application to wash the **MERIDIAN** into the soil.
- Slightly damp soil will enhance the penetration of the **MERIDIAN** into the soil.

APPLICATION RATES

CROP / PEST	DOSAGE	COMMENTS
APPLES Woolly apple aphid (<i>Eriosoma lanigerum</i>)	3 g/tree	Apply only as a drench. Apply during the last two weeks of September. Mix in 1 ℓ water and apply with a jug. Refer to "Direction for Use". Irrigate after application.
CITRUS Red scale (<i>Aonidiella aurantii</i>)	18 g/tree	Apply only as a drench. Apply from mid August to mid September when trees are in the green bud to white bud stage. The best results are obtained when applications are done 4 to 6 weeks prior to the first crawler movement. Mix in 1 ℓ water and apply with a jug. Refer to "Direction for Use". Irrigate after application.
CYPRESS Aphids (<i>Cinara tujaefilina</i>)	3 - 12 g/tree Depending on tree height	Apply only as a drench. Apply from June to July or when first aphids are present. The effect of MERIDIAN will only be clearly visible 7 - 14 days after application. Mix in 1 ℓ water and apply with a jug. Refer to "Direction for Use" follow up with light irrigation to wash product into soil. 3 g/tree – height of 0 - 2 m 6 g/tree – height of 2 - 4 m 12 g/tree – higher than 4 m
LAWNS and TURF White Grub (<i>Aphodius pseudolivivus</i>)	12 g/100m ²	Apply as a broadcast spray. Only first two instars of white grubs will be controlled. Apply during September/October and follow up November/December as a preventative treatment or when small white grubs are present. Mix in 10 ℓ water and apply with a knapsack sprayer to 100 m ² .
Mole Cricket (<i>Gryllotalpa africana</i>)	12 g/100m ²	Apply as a broadcast spray. Only juvenile mole crickets (less than 18mm in length) will be controlled. Do inspection, prior to application, by washing mole crickets from the soil with a liquid soap solution. Apply during November / December as a preventative treatment or when small mole crickets are present. Mix in 10 ℓ water and apply with a knapsack sprayer to 100 m ² .

CROP / PEST	DOSAGE	COMMENTS
<p>ROSES Aphids <i>(Myzus persicae and Macrosiphum rosae)</i></p>	<p>3 g/10 rose bushes</p> <p>1 g/10 ℓ water</p>	<p>DRENCH APPLICATION Apply during September/October and follow up December/January or when aphids are present.</p> <p>Irrigate after application. The effect of MERIDIAN will only be clearly visible 7 - 14 days after application.</p> <p>Mix in 2,5 ℓ water, apply, with a jug 250 mℓ mixture/rosebush. Refer to "Direction for Use"</p> <p>FOLIAR APPLICATION 1 - 2 applications Refer "Use Restrictions"</p>
<p>MANGOES Mango scale <i>(Aulacaspis tubercularis)</i></p> <p>Mealy bug <i>(Planococcus citri, Pseudococcus longispinus, Nipaecoccus viridus)</i></p> <p>Mango seed weevil <i>(Sternochetus mangiferae)</i></p>	<p>6 g / tree</p>	<p>Application: Apply from the last week in July to mid August. Mix with 1ℓ of water and apply with a jug. Irrigate after application.</p> <p>Refer to "Use Restrictions" and "Application Techniques".</p>
<p>TOMATOES Whiteflies <i>(Trialeurodes vaporariorum, Bemisia tabaci)</i></p>	<p>0,03 g / plant</p>	<p>Apply at transplant or shortly afterwards as a soil drench in 50 mℓ/water/plant. Irrigate after application. In cases of high whitefly pressure, repeat application 28 days later.</p>

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