

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Insecticide



# SCALEX 100 EC

Reg. No. L 7573 Act No. 36 of 1947

3. 24/5/2022 – June 2023

An emulsifiable concentrate contact and stomach insecticide with insect growth regulant mode of action, for the control of Scales on the crops as mentioned below.

## ACTIVE INGREDIENT

pyriproxyfen (phenyl ether) 100 g/l

GROUP

7C

INSECTICIDE



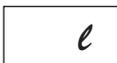
### Hazard Statements:

Flammable liquid and vapour.  
May be harmful if swallowed.  
May be harmful in contact with skin.  
Causes skin irritation.  
Causes serious eye damage.  
Very toxic to aquatic life with long lasting effects.

### Precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
Avoid release to the environment.

**DANGER**



UN Number: 1993

Registration holder: VILLA CROP PROTECTION (PTY) LTD.  
Co. Reg. No. 1992/002474/07  
PO Box 10413, Aston Manor, 1630  
Tel. (011) 396 2233  
Website: www.villacrop.co.za

**24 HR EMERGENCY NUMBERS:**

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:  
Date of Manufacture:

**SCALEX 100 EC**

Reg. No. L7573 Act No. 36 of 1947  
 IRAC INSECTICIDE GROUP CODE: 7C

**ACTIVE INGREDIENT:**

pyriproxyfen (phenyl ether) .....100 g/l

Registration holder:

**VILLA CROP PROTECTION (PTY) LTD**  
 Co. Reg. No.: 1992/002474/07  
 PO Box 10413,  
 ASTON MANOR, 1630, TEL.: (011) 396 2233

**WARNINGS****Withholding periods:**

Allow the following number of days between the last application and harvest of the following crops:	
Citrus	42 days
Mangoes	60 days

**NOTE**

**THE MAXIMUM RESIDUE LEVELS (MRL'S) WILL NOT BE EXCEEDED PROVIDED APPLICATIONS ARE APPLIED AS PRESCRIBED. WHEN PRODUCTION IS DESTINED FOR THE EXPORT MARKET, THE EXPORT AGENCY OF CONCERN MUST BE CONTACTED, PRIOR TO THE USE OF SCALEX 100 EC IN A SPRAY PROGRAMME**

**Hazard statements:**

<b>Flammable liquid and vapour.</b>
May be harmful if swallowed.
May be harmful in contact with skin.
Causes skin irritation.
Causes serious eye damage.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Moderately toxic to birds.
- Store under lock and key, in a cool, dry, well-ventilated place.
- Store away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning, take the patient immediately to a doctor and make this label available to him/her.**

**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. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label, the occurrence of resistance of the pest against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or due 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:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Take action to prevent static discharges.
Wash hands and face thoroughly after handling. Do not touch eyes.
Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

IF SWALLOWED OR IN EYES or if skin irritation occurs: Get medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep cool.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Avoid eye and skin contact.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Prevent drift on to other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three (3) times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Destroy the container by perforation and flattening and dispose of it in a safe way.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

<b>Relevant hazardous components</b>	
Pyriproxyfen	100 g/l
Emulsifiers	< 100 g/l
Solvent	< 750 g/l

### **SYMPTOMS OF HUMAN POISONING**

May cause irritation of the eyes, nose, respiratory tract and skin.

Prolonged and repeated exposure may cause headache and dizziness.

### **FIRST AID TREATMENT**

- Remove the patient from the source of poisoning to fresh air and keep him/her calm and reassured.
- **Skin:** Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap. **Obtain medical attention if irritation occurs.**
- **Eyes:** Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**
- **Inhalation:** If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. The patient should be kept under observation. Obtain medical attention if irritation develops. **Seek medical attention if you feel unwell after inhalation.**
- **Ingestion:** **Do not induce vomiting.** Do not give anything by mouth. Obtain medical attention immediately. If the person is alert, rinse mouth thoroughly with water. **Seek medical attention.**

### **NOTE TO PHYSICIAN**

Antidote is not available. Treat symptomatically and supportively. The main hazards of this product are irritation of the eyes and skin, and mild to severe pulmonary injury when product aspirated into the respiratory system.

### **RESISTANCE WARNING**

**SCALEX 100 EC** is a group code 7C insecticide. Any insect population may contain individuals naturally resistant to **SCALEX 100 EC** and any other group code 7C insecticide. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **SCALEX 100 EC** or any other group code 7C insecticide.

To delay insecticide resistance:

- avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes,
- integrate other control methods (chemical, cultural, biological) into insect control programmes.

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

#### Mode of action:

**SCALEX 100 EC** contains **Pyriproxyfen**. **Pyriproxyfen** is a juvenile hormone mimic and belongs to IRAC mode of action group 7C. It interferes with normal juvenile hormone levels which results in disruption of normal development and maturation, through both contact and ingestion.

#### USE RESTRICTIONS

- **SCALEX 100 EC** is active only against juvenile / nymph stages of the target pests. Thus, adults may still be observed following some time after application. Adult populations will decrease over time after application depending on the effect of environmental conditions on the lifecycle of target pests.
- Effective control depends on Scale crawlers coming into contact with the product residues, wherever they are moving or settling on the trees. Therefore, it is important to obtain thorough coverage of the trees with **SCALEX 100 EC**.
- Yield and colouring of the fruit may be variably affected adversely, when a mineral oil is used in conjunction with **SCALEX 100 EC**. In order to minimize this possibility, it is advised to restrict application to well irrigated orchards and avoid spraying at temperatures above 30 °C.
- Only use a mineral oil (medium narrow range) registered for control of Scales on citrus.
- Proper control of Ants is advised in conjunction with using **SCALEX 100 EC**.

#### RELEASING BIOLOGICAL CONTROL AGENTS

- Treatment of orchards with **SCALEX 100 EC** can be followed up with the immediate release of the Hymenopterous parasitoids *Aphytis holoxanthus* and *Aphytis lingnanensis*.

Allow 45 days to elapse, before releasing the Mealybug predator *Cryptolaemus montrouzieri* into an orchard, treated with **SCALEX 100 EC**.

#### DIRECTIONS FOR USE: Use only as directed.

##### Compatibility:

- **SCALEX 100 EC** is compatible with certain fungicides (**Benomyl 500 WP** and **Mancozeb 800 WP**) and medium narrow range mineral oils.
- The compatibility of **SCALEX 100 EC** may be influenced by several factors. As factors influencing compatibility may vary, a physical compatibility test must always be performed, before such tank mixture is sprayed.

When **SCALEX 100 EC** is used in conjunction with any other agricultural remedy, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhere to.

##### Mixing instructions:

- Half fill the spray tank with clean water.
- Add the required amount of **SCALEX 100 EC** to the water, while stirring.
- Add the required amount of mineral oil.
- Fill the spray tank with water to the required level, while maintaining agitation, to ensure thorough mixing.
- Maintain agitation during application.

Prepared spray mixture must not be left in the spray tank for any length of time, e.g., overnight.

##### Application:

- **SCALEX 100 EC** must only be applied with a calibrated sprayer that is in good working condition.
- Apply as a full cover spray and ensure thorough penetration and wetting, especially at tree top level.
- The Scale pressure in the orchard, determine the number of **SCALEX 100 EC** treatments required to prevent Citrus red scale movement to fruit. Two infestation levels are distinguished.
- Infestation pressure can be determined through regular inspection of orchards and by analysis of the Scale cull of the previous season's harvest.

## APPLICATION RATES

Crop / Pest	Dosage rate	Remarks
<b>Citrus</b> Woolly whitefly ( <i>Aleurothrixus floccosus</i> )	30 ml / 100 l water <b>PLUS</b> 20 ml / 100 l <b>Charge</b>	<u>Single treatment per season ONLY:</u>  Apply as a medium cover spray when adults are active on leaves and/or nymphs are noticed on the underside of leaves.  Ensure thorough wetting of the ventral leaf surfaces.
Red scale ( <i>Aonidiella aurantii</i> )  <b>Mpumalanga Lowveld, Limpopo, Northwest &amp; Northern Cape</b>	<b>A. SCALES UNDER COMMERCIAL CONTROL:</b> For use in the situation where, no or few Scales were on the fruit the previous summer and at harvest and live Scales are difficult to find on the trees. One of the following two treatments is recommended:	<b>1. Two-spray treatment:</b> <u>First application:</u> Apply with the first signs of crawler movement, as a full cover spray (normally at bud burst), but not before August 15 <sup>th</sup> .  <u>Second application:</u> Apply at 80 % to 100 % petal drop, or soon thereafter (about 5 to 8 weeks after first application), as a full cover spray.  <b>2. Single maintenance treatment:</b> Use the single treatment only if the two-spray treatment programme was followed the previous season, and a commercially clean orchard was obtained. Apply at 80 % to 100 % petal drop, or soon thereafter, as a full cover spray. Only use this single treatment where “soft/IPM friendly” insecticides were included in the Thrip control programme. It is important to scout these orchards regularly and thoroughly, and if necessary, apply oil during the summer.
Red scale ( <i>Aonidiella aurantii</i> )  <b>Mpumalanga Lowveld, Limpopo, Northwest &amp; Northern Cape</b>	<b>B. SCALES NOT UNDER COMMERCIAL CONTROL:</b> For use in the situation where the Scale pressure can vary from moderate occurrence on the trees and fruit, to such severity, where trees are declining terminally.	<b>Three-spray treatment:</b> <u>First application:</u> Apply as a full cover spray with the first signs of crawler movement (normally at bud burst), but not before August 15 <sup>th</sup> .  <u>Second application:</u> Apply at 80 % to 100 % petal drop, or soon thereafter, as a full cover spray.  <u>Third application:</u> Apply in late November or December as a full cover spray. This application can be combined with the <b>Benomyl 500 WP</b> application, for Black spot control. If this combination is applied, use 500 ml mineral oil, as recommended on the <b>Benomyl 500 WP</b> label.

<b>Crop / Pest</b>	<b>Dosage rate</b>	<b>Remarks</b>
<b>Citrus (continue)</b> Red scale ( <i>Aonidiella aurantii</i> )	<b>A. SCALES UNDER COMMERCIAL CONTROL:</b> For use in the situation where, no or few Scales were on the fruit the previous summer and at harvest and live Scales are difficult to find on the trees. One of the following two treatments is recommended.	
<b>Eastern &amp; Western Cape</b>	30 ml / 100 l water <b>PLUS</b> 200 ml medium narrow range mineral oil	<b>1. Two-spray treatment:</b> <u>First application:</u> Apply with the first signs of crawler movement or soon thereafter (normally at 80 to 100 % petal drop), as a full cover spray.
	30 ml / 100 l water <b>PLUS</b> 500 ml medium narrow range mineral oil	<u>Second application:</u> Apply in December or early January, (about 5 to 8 weeks after first application), as a full cover spray.
	<b>OR</b> 30 ml / 100 l water <b>PLUS</b> 200 ml medium narrow range mineral oil	<b>2. Single maintenance treatment:</b> Use the single treatment only if the two-spray treatment programme was followed the previous season, and a commercially clean orchard was obtained. Apply at 80 % to 100 % petal drop, or soon thereafter, as a full cover spray. Only use this single treatment where “soft/IPM friendly” insecticides were included in the Thrip control programme. It is important to scout these orchards regularly and thoroughly, and if necessary, apply oil during the summer.
Red scale ( <i>Aonidiella aurantii</i> )	<b>B. SCALE NOT UNDER COMMERCIAL CONTROL:</b> For use in the situation where the Scale pressure can vary from moderate occurrence on the trees and fruit, to such severity where trees are declining terminally.	
<b>Eastern &amp; Western Cape</b>	30 ml / 100 l water <b>PLUS</b> 300 ml medium narrow range mineral oil	<b>Three-spray treatment:</b> <u>First application:</u> Apply in August or with the first signs of crawler movement, as a full cover spray.
	30 ml / 100 l water <b>PLUS</b> 200 ml medium narrow range mineral oil	<u>Second application:</u> Apply at 80 % to 100 % petal drop, or soon thereafter, as a full cover spray.
	30 ml / 100 l water <b>PLUS</b> 500 ml medium narrow range mineral oil	<u>Third application:</u> Apply during December/January, as a full cover spray.
<b>Mangoes</b> Mango scale ( <i>Aulacaspis tubercularis</i> )	50 ml / 100 l water	Apply a single full cover spray during October after flowering.

The following product mentioned in this label may be replaced with an equivalent product:

- **CHARGE** (L 9100 / W 130953) = **TECHNIWET SUPER** (L9239)

**CHARGE** and **TECHNIWET SUPER** are registered products of  
**VILLA CROP PROTECTION (PTY) LTD.**