

UNIVERSAL PYRIPROXYFEN 100EC

Reg. No.: L7572 Act /Wet No. 36/1947

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.
'n Emulgeerbare konsentraat kontak- en maag insekdoder met insekgroeireguleerde aksie van werking, vir die beheer van dopluise op gewasse soos hier onder aangedui.

IRAC INSECTICIDE GROUP CODE:	7C	IRAC INSEKDODER GROEPKODE:
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ACTIVE INGREDIENT/ AKTIEWE BESTANDDEEL:

Pyriproxyfen (phenyl ether) 100 g/l

Piriproksifen (fenieleter)

Net volume / Netto volume: ℓ

Registration holder / Registrasiehouer:
UNIVERSAL CROP PROTECTION (PTY) LTD
 Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.
 P.O. Box / Posbus 801
 KEMPTON PARK, 1620
 Tel: (011) 396 2233

Batch No:
Date of formulation

Lotnr:
Formuleringsdatum:

UN number: 2903






**HARMFUL
SKADELIK**




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**HARMFUL****SKADELIK****WARNINGS:**

Allow the following number of days between last application and harvest of the following crops:	
Citrus	90 days
Mangoes	60 days

NOTE: The maximum residue levels (MRLs) 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 **PYRIPROXYFEN 100EC** in a spray programme.

- Handle with care.
- Harmful if swallowed or inhaled.
- Irritating to eyes, respiratory system and skin.
- Very toxic to aquatic organisms.
- **Flammable** – do not store near open flame.
- Store in cool, dry, well-ventilated place.
- Store away from food, feeds, seed, fertilizer 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:

- Avoid inhalation of spray mist or fumes.
- Avoid eye and skin contact.
- Wear a face shield, rubber gloves and boots when handling the concentrate and preparing the spray mixture.
- Wash with soap and water after use and after accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Prevent drift onto 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** empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip.

Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

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 patient from source of poisoning to fresh air and keep him quiet and reassured.
- **Skin:** Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water. Do not rub skin. Get medical attention if irritation persists.
- **Eyes:** Flush eyes with clean water for at least 20 minutes. If irritation persists, obtain medical attention.
- **Inhalation:** If breathing difficultly, or irritation occur and persist, obtain medical attention.
- **Ingestion:** Have victim rinse mouth thoroughly with clean water. **Do not induce vomiting, due to the aromatic solvent. Obtain medical advice immediately.** Never give anything by mouth to an unconscious person. Treat respiratory difficulty with artificial respiration and oxygen. Administration of oxygen must be performed by qualified medical personnel.

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:

PYRIPROXYFEN 100EC is a group code 7C insecticide. Any insect population may contain individuals naturally resistant to **PYRIPROXYFEN 100EC** 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 **PYRIPROXYFEN 100EC** 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 the control methods (chemical, cultural, biological) into insect control programmes.

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

USE RESTRICTIONS:

- Effective control depends on scale crawlers coming into contact with the product residues wherever they are moving or settle on the trees. Therefore it is important to obtain thorough coverage of the trees with **PYRIPROXYFEN 100EC**.
- Yield and colouring of the fruit may be variably affected adversely when a mineral oil is used in conjunction with **PYRIPROXYFEN 100EC**. 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 scale on citrus.
- Proper control of ants is advised in conjunction with using **PYRIPROXYFEN 100EC**.

RELEASING BIOLOGICAL CONTROL AGENTS:

- Treatment of orchards with **PYRIPROXYFEN 100EC** 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 **PYRIPROXYFEN 100EC**.

DIRECTIONS FOR USE: Use only as directed

Compatibility:

- **PYRIPROXYFEN 100EC** is compatible with certain fungicides (benomyl 500 WP and mancozeb 800 WP) and medium narrow range mineral oils.

- The compatibility of **PYRIPROXYFEN 100EC** 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 **PYRIPROXYFEN 100EC** 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 **PYRIPROXYFEN 100EC** 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:

- **PYRIPROXYFEN 100EC** 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 **PYRIPROXYFEN 100EC** 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
<p>Citrus: Red scale</p> <p><i>Mpumalanga lowveld, Limpopo, Northwest & Northern Cape.</i></p>	<p>A. SCALE UNDER COMMERCIAL CONTROL: For use in the situation where, no or few scales were on the fruit the previous summer and at harvest, and live scale is difficult to find on the trees. One of the following two treatments is recommended:</p> <hr/> <p>30 ml / 100 l water plus 300 ml medium narrow range mineral oil</p> <hr/> <p>30 ml / 100 l water plus 200 ml medium narrow range mineral oil</p> <hr/> <p>OR</p> <hr/> <p>30 ml / 100 l water plus 200 ml medium narrow range mineral oil</p>	<p>1. Two spray treatment: <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 15th.</p> <hr/> <p><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.</p> <hr/> <p>2. Single maintenance treatment: 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.</p>
<p>Citrus: Red scale</p> <p><i>Mpumalanga lowveld, Limpopo, Northwest & Northern Cape.</i></p>	<p>B. SCALE NOT UNDER COMMERCIAL CONTROL: For use in situation where the scale pressure can vary from moderate occurrence on the tree and fruit, to such severity where trees are declining terminally.</p> <hr/> <p>30 ml / 100 l water plus 300 ml medium narrow range mineral oil</p> <hr/> <p>30 ml / 100 l water plus 200 ml medium narrow range mineral oil</p> <hr/> <p>30 ml / 100 l water plus 300 ml medium narrow range mineral oil</p>	<p>Three spray treatment: <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 15th.</p> <hr/> <p><u>Second application:</u> Apply at 80% to 100% petal drop, or soon thereafter, as a full cover spray.</p> <hr/> <p><u>Third application:</u> Apply in late November or December as a full cover spray. This application can be combined with the benomyl 500 WP application for black spot control. If this combination is applied, use 500 ml mineral oil, as recommended on the benomyl 500 WP label.</p>

Crop / Pest	Dosage rate	Remarks
Citrus: Red scale Eastern & Western Cape	A. SCALE UNDER COMMERCIAL CONTROL: For use in the situation where, no or few scales were on the fruit the previous summer and at harvest, and live scale is difficult to find on the trees. One of the following two treatments is recommended.:	
	30 ml / 100 l water plus 200 ml medium narrow range mineral oil	1. Two spray treatment: <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 plus 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.
	OR 30 ml / 100 l water plus 200 ml medium narrow range mineral oil	2. Single maintenance treatment: 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.
Citrus: Red scale Eastern & Western Cape	B. SCALE NOT UNDER COMMERCIAL CONTROL: For use in situation where the scale pressure can vary from moderate occurrence on the tree and fruit, to such severity where trees are declining terminally.	
	30 ml / 100 l water plus 300 ml medium narrow range mineral oil	Three spray treatment: <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 plus 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 plus 500 ml medium narrow range mineral oil	<u>Third application:</u> Apply during December/January as a full cover spray.
Mangoes: Mango scale	50 ml / 100 l water	Apply a single full cover spray during October after flowering.