



Insecticide

SPIROFEN 240 SC

Reg. No. L 9498 Act No. 36 of 1947

3: 25/8/2022 – Nov2022

A contact suspension concentrate acaricide for the control of various mite pests on citrus.

ACTIVE INGREDIENT

spirodiclofen (tetronic acid) 240 g/l

GROUP

23

INSECTICIDE



DANGER

Hazard Statements:

May be harmful if swallowed.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Harmful if inhaled.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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



UN Number: 3082

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazzcal24) +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:

SPIROFEN 240 SC

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IRAC INSECTICIDE GROUP CODE: 23

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spirodiclofen (tetronic acid)

.....240 g/l

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ASTON MANOR, 1630, Tel. (011) 396 2233

WARNINGS**Withholding periods:**

Allow the following number of days between last application and harvest of the following crops:	
Citrus	76 days

NOTE

ABOVE-MENTIONED WITHHOLDING PERIODS REFER TO COMPLIANCE WITH LOCAL MAXIMUM RESIDUE LIMITS (MRL'S). HOWEVER, IT IS IMPORTANT TO NOTE THAT IMPORT TOLERANCES OF OTHER COUNTRIES MIGHT POSSIBLY BE EXCEEDED. IF THE TREATED CROP WILL BE EXPORTED, FIRST CONSULT THE RELEVANT IMPORTER OR EXPORTING BODY REGARDING THE USE OF THIS PRODUCT, MRL'S AND RECOMMENDED WITHHOLDING PERIODS.

Hazard statements:

May be harmful if swallowed.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Harmful if inhaled.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- 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 until spray deposit has dried 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, and 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 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.**

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Avoid contamination to surface water through spray drift. Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high-water mark.

This product is toxic to honeybee larvae through direct contamination of pollen and nectar. Do not apply to blooming, pollen-shedding, or nectar-producing parts of plants if bees forage on the plants.

SURFACE WATER ADVISORY AND RUN-OFF MANAGEMENT

This product may contaminate water through run-off or drift of spray in wind. Poorly draining soils and soils with shallow water tables are more prone to produce run-off that contains this product. A level well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall run-off.

PRECAUTIONS

Precautionary statements:

Obtain, read and follow all safety instructions before use.
Avoid breathing fume, mists, vapours or spray.
Wash hands thoroughly after handling. Do not touch eyes.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
Avoid release into the environment.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned, get medical advice.
If skin irritation or rash occurs: Get medical help.
Collect spillage.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Avoid eye and 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 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** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining 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 a third of that of the container. Add the rinsing to the contents of the spray tank, before destroying the container in the prescribed manner. Puncture the triple rinsed container and dispose of via an approved collector or recycler (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.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

<u>Relevant hazardous components</u>	
Spirodiclofen	240 g/l
Sodium dodecyl-benzene sulfonate	< 80 g/l

FIRST AID TREATMENT

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Seek medical attention** if irritation occurs.
- **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Obtain medical attention** if irritation persists.

- **Eyes:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**
- **Ingestion:** Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

ADVICE TO PHYSICIAN

Treat symptomatically and supportively. No specific antidote known.

Mode of action: SPIROFEN 240 SC is a non-systemic acaricide active by contact. Controls all developmental stages of Mites, including eggs, nymphs and adults. Pro-pesticide – hydrolyses to the corresponding tetrionic acid, the biologically active species. It inhibits fatty acid biosynthesis, by inhibition of acetyl CoA carboxylase (ACCase). Inhibits the incorporation of acetate into fatty acids and blocks the production of phospholipids used in building new membranes.

RESISTANCE WARNING

SPIROFEN 240 SC is a group code 23 acaricide/insecticide. Any mite population may contain individuals naturally resistant to **SPIROFEN 240 SC** and other group code 23 acaricides/insecticides. The resistant individuals can eventually dominate the mite population if these acaricides/insecticides are used repeatedly. These resistant mites may not be controlled by **SPIROFEN 240 SC** or any other group code 23 acaricide/insecticide.

To delay acaricide resistance:

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

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

USE RESTRICTIONS:

- Do not use brackish water with **SPIROFEN 240 SC**.
- **Only apply one (1) treatment per season.**
- **Citrus:** Do not apply **SPIROFEN 240 SC** later than mid-January and within 76 days of harvest.

GENERAL INFORMATION

- **SPIROFEN 240 SC** is a non-systemic acaricide and is active by contact on mite eggs, all nymphal stages and adult females. Apply **SPIROFEN 240 SC** when mite populations are building up or timed to coincide with early threshold level in developing mite populations and not as a corrective treatment. Thorough coverage of the leaf upper and lower surfaces and of the fruit is therefore essential, to ensure long lasting efficacy. The presence of physical barriers including, but not limited to excessive dust, sun block agents, and/or sooty-mold can interfere with the binding of **SPIROFEN 240 SC** to target plant parts and may require higher spray volumes to achieve penetration of these barriers.

Restrictions

- Do not apply **SPIROFEN 240 SC** through any type of irrigation system.
- Do not apply **SPIROFEN 240 SC** in enclosed structures such as greenhouses or plant houses.
- **Effect on beneficial insects in citrus**
Aphytis lingnanensis - Harmless
Chilocorus nigritus – Slightly harmful
Coccidoxenoides peregrinus – Harmful / Slightly harmful
Euseius citri - Harmless
Trichogrammatoidea cryptophlebiae - Harmless
 Bees - Harmless

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- The formulation of other products as well as the quality of the dilution water may influence the compatibility with **SPIROFEN 240 SC**. A physical compatibility test should thus always be carried out before spraying. The Registration Holder cannot accept responsibility for any adverse effects due to tank mixtures with any product(s) not approved in this label.
- **SPIROFEN 240 SC** is **NOT** compatible with fungicides containing **Trifloxystrobin**.

Mixing Instructions:

- Half fill the spray tank with clean water and ensure agitation.
- Add the required volume of **SPIROFEN 240 SC** to the water.
- Agitate the water in the spray tank and then add the product(s) to the tank in the following sequence (as applicable): acidifier/buffer or adjuvant, suspension concentrate, water soluble concentrate, emulsifiable concentrate.
- Fill the spray tank with water to the required level while maintaining agitation, to ensure thorough mixing.
- Maintain agitation while spraying.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g., overnight.

Application Instructions:**Ground application:**

- It is important that all applications must be performed with suitable equipment that is in good working order and correctly calibrated, to give the desired coverage for that particular method of application.
- It is important to ensure complete coverage of the fruit and foliage to obtain maximum long-lasting efficacy.
- Application rates specified within this label are based on full-size mature trees.

APPLICATION RATES

Crop / Pest	Dosage Rate	Remarks
Citrus Excluding lemons and kumquat Citrus red mite, <i>(Panonychus citri)</i> Citrus flat mite, <i>(Brevipalpus californicus)</i> Lowveld citrus mite, <i>(Eutetranychus orientalis)</i>	10 to 15 ml / 100 ℓ water	Apply as a medium cover spray when first signs of an infestation are observed. Only apply one (1) treatment per season before middle of January. Precede, and then follow the SPIROFEN 240 SC treatment with registered acaricides with other modes of action, if necessary. NOTE Do not apply Trifloxystrobin 500 WDG within 30 days before or after the application of SPIROFEN 240 SC .
Citrus rust mite, <i>(Phyllocoptruta oleivoar)</i>	15 to 20 ml / 100 ℓ water	

IMPORTANT NOTES

- Apply of **SPIROFEN 240 SC** as a spray early in the infestation as the Mite populations begin to develop or at an early threshold level for the target mite species.
- Evaluate the product's performance no sooner than seven (7) days following application. Take note that only Mite eggs, all nymphal stages and adult females will be controlled by the product – **NOT** the adult males.
- The degree of control or suppression of additional labelled pests will be determined, in part, by the stage of pest development at application and infestation level of those pests.
- Use higher rates for moderate to heavy Mite pressure or where longer residual control is desired. Lower rates are generally adequate for low to moderate Mite pressure but require careful scouting and will generally provide shorter residual control than higher rates.
- Apply adequate spray volume to ensure thorough and uniform coverage of target plant parts.