



syngenta

Reg. No. L7207 Act No. 36 of 1947 N-AR 0815 (Namibia) W130335 (Botswana)

A suspension concentrate systemic insecticide with stomach and contact action for the control of various pests on the listed crops.

Hazard statements:

Very toxic to aquatic life with long-lasting effects.

Precautionary statements:

Prevention:

Avoid release to the environment.

Response:

Collect spillage.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

EMERGENCY TEL NO.:

+27 82 446 8946 (Griffon)

UN 3082

GROUP 4A INSECTICIDE



Active Ingredients:
thiamethoxam (neonicotinoid).. 240 g/l

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WARNING

Registration holder
Syngenta South Africa (Pty) Ltd
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1. WARNINGS:

Hazard statements: Very toxic to aquatic life with long-lasting effects.

Withholding period: Minimum number of days between last application and harvest.

APPLES.....	119 days
BABY PEPPERS (Chillies, piquante peppers).....	45 days
BLUEBERRIES.....	60 days
CRUCIFERAE (Cabbage group).....	50 days
CUCURBIT GROUP.....	3 days
GREEN PEPPERS.....	41 days
MANGOES.....	130 days
PAPRIKA.....	31 days
POTATOES.....	56 days
SUGARCANE.....	6 months
TOMATOES.....	28 days
TREE NUTS.....	93 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local maximum residue limits (MRL), but it may not adhere to the import tolerances 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, MRL's and recommended withholding periods.

- Not to be used on mangoes intended for atchar.
- **NOT TO BE USED ON MANGO TREES IF THE CROP OR PROCESSED MANGOES E.G., JUICE OR DRIED MANGOES ARE INTENDED FOR THE EXPORT MARKET.**
- Handle with care.
- **ACTARA SC** is a mild skin- and eye irritant, avoid contact with skin and eyes.
- Toxic to bees.
- 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 cool and well-ventilated area.
- Avoid storage below 0°C and above 35°C.
- Effective mite control must be exercised in crops treated with the neonicotinoid chemical class.

- **Re-entry:** Not applicable when used as a drench treatment.

1.1 Pollinator Precautions

- **NO AERIAL** applications of **ACTARA SC** are allowed.
- Apply **ACTARA SC** ONLY after 100% petal fall.
- **DO NOT** apply **ACTARA SC** when adjacent crops are in flower.
- **Weed control:** Always remove flowering weeds before making an **ACTARA SC** application. This may be accomplished by mowing, disking, mulching, flailing, or applying a registered herbicide.
- After an **ACTARA SC** application, wait at least five (5) days before placing beehives in the treated field.
- Consult with your local Syngenta representative for additional pollinator safety practices.

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 soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease 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 people 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, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

Precautionary statements: **Prevention:** Avoid release to the environment. **Response:** Collect spillage. **Disposal:** Dispose of contents/container to an approved waste disposal plant.

- Do not inhale the spray mist.
- Avoid contact with eyes.

- Wear rubber gloves and a face shield when handling the concentrate.
- Wash with soap and water after use and accidental contact with skin.
- In case of eye contact, rinse the eyes with clean water for several 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.
- Wash all application equipment thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers, or dams.
- Avoid spray drift or drench mixture contaminating other crops, grazing, rivers, dams and areas not under treatment.
- Invert the empty container over the spray tank or the container used for drench application and allow to drain for at least 30 seconds after the flow has slowed down to a drop. Thereafter, rinse the container three (3) 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 or the container used for drench application before destroying the container in the prescribed manner.
- Do not use empty container for any other purpose.

3. RELEVANT SUBSTANCES:

Chemical name	Classification	Concentration (% w/w)
Not applicable	Not applicable	Not applicable

4. RESISTANCE MANAGEMENT:

ACTARA SC is a group code 4A insecticide. Any insect population may contain individuals naturally resistant to **ACTARA SC** or any other group code 4A 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 **ACTARA SC** or any other group code 4A insecticides.

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 programs.

Syngenta cannot accept responsibility for any losses that may result from the failure to control pests resistant to ACTARA SC.

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

5. USE RESTRICTIONS:

- Ensure that soil pH is below 8.5 before application of **ACTARA SC** as a soil drench.
- The efficacy of **ACTARA SC** can be reduced on soils with a high clay content (above 25%).

- The efficacy of **ACTARA SC** can be reduced on very sandy or rocky soils, where leaching of **ACTARA SC** can occur, especially when there is prolonged rain or very high rainfall.
- **ACTARA SC** must only be applied to healthy, actively growing trees/plants that have a well-developed root system.
- The efficacy of **ACTARA SC** may be limited by factors that impair optimal sap flow, e.g., the presence of virus infections or soil and root diseases, older plantings (e.g., macadamia trees older than 12 years), top-worked (re-grafted) trees, drought stress, flood conditions or high rainfall with, or shortly after application, or trees subject to any kind of stress.
- Before application, remove all leaves, weeds, debris, etc. from under the trees/plants where the drench mixture is to be applied.

6. DIRECTIONS FOR USE: Use only as indicated.

6.1 Compatibility

Do not tank mix when applied as a drench.

6.2 Mixing Instructions

- Half-fill the spray tank or mixing container with clean water and add the required quantity of **ACTARA SC**.
- Ensure thorough agitation while topping up and during application.
- Apply as soon as possible after mixing.
- Do not prepare more spray mixture than is needed for the immediate operation.

6.3 Application Techniques

Ensure equipment is correctly calibrated to give even distribution at the correct volume. Wash all equipment thoroughly after use.

6.3.1 Drench application

- Remove all weeds and plant debris under the tree or vine and make a trench around the trunk. Apply around the entire base of the trunk or in the case of mangoes at the drippers (see table).
- Irrigate within one (1) day of application to wash the product into the soil.
- Slightly damp soil will enhance the movement of the product into the soil.
- **ACTARA SC** and granular fertiliser applications must be done separately.

6.4 Application Rates

Refer to POLLINATOR PRECAUTIONS.

APPLES

Pest	Dosage	Remarks
Woolly apple aphid (<i>Eriosoma lanigerum</i>)	3 ml/tree	Drench application Apply after 100% petal fall. Mix with 1 ℓ of water and apply with a jug.

APPLES cont.

Pest	Dosage	Remarks
Woolly apple aphid (<i>Eriosoma lanigerum</i>)	3 ml/tree	ACTARA SC must only be applied as a drench application if a micro-irrigation system is present. Overhead and drip irrigation systems are not suitable for soil drench applications. Do not apply ACTARA SC through the irrigation system.

Refer to USE RESTRICTIONS, APPLICATION TECHNIQUES and POLLINATOR PRECAUTIONS.

BLUEBERRIES

Pest	Dosage	Remarks
Banded fruit weevil (<i>Phlyctinus callosus</i>)	0.3 ml/tree	Drench application Apply as a single application. Apply after 100% petal fall. Mix with 250 ml of water and apply with a jug. ACTARA SC must only be applied as a soil drench application if an irrigation system is present. ACTARA SC will reduce the banded fruit weevil population over more than one (1) season if all plants are treated initially.

Refer to USE RESTRICTIONS, APPLICATION TECHNIQUES and POLLINATOR PRECAUTIONS.

CAPSICUMS

(Pepper group)

Pest	Dosage	Remarks
Aphids Whiteflies	0.03 ml/ plant	Drench application Apply in 50 ml solution/plant at transplant or within seven (7) days thereof, repeat application 28 days thereafter.

Refer to POLLINATOR PRECAUTIONS.

CRUCIFERAE

(Cabbage group)

Pest	Dosage	Remarks
Aphids (<i>Brevicoryne brassicae</i> , <i>Lipaphis erysimi</i> and <i>Myzus persicae</i>)	0.0083 ml/ plant	Drench application Apply at transplant or within six (6) days thereof as a soil drench in 50 ml water/plant. Irrigate within 24 hours after application. ACTARA SC soil drenches must not be applied more than once per crop cycle.

CUCURBITS GROUP

Pest	Dosage	Remarks
Aphids (<i>Brevicoryne brassicae</i> , <i>Lipaphis erysimi</i> , <i>Myzus persicae</i>)	0.033 ml/ plant	Drench application Apply in 30 - 50 ml solution/plant at transplant or within five (5) days thereof as a soil drench or at 100% emergence of directly seeded cucurbits e.g., large pumpkins such as Hubbard squash or butternut. Irrigate within 24 hours after application.

CUCURBITS GROUP cont.

Pest	Dosage	Remarks
Aphids (<i>Brevicoryne brassicae</i> , <i>Lipaphis erysimi</i> , <i>Myzus persicae</i>)	0.033 ml/ plant	ACTARA SC soil drenches must not be applied more than once per crop cycle.

Refer to POLLINATOR PRECAUTIONS.

CYCADS

Pest	Dosage	Remarks
Soft scale (<i>Coccus hesperidum</i>) Armoured scale (<i>Diaspididae</i> spp.) Mealybug (<i>Pseudo-coccidae</i> spp.)	3 ml/plant	Drench application Apply to actively growing plants as a soil drench around the base of the plant in 250 ml solution/plant as soon as the pest is noticed.

GRAPES

(Wine and table grapes)

Pest	Dosage	Remarks
Mealybug (<i>Planococcus ficus</i>)	1.2 ml/vine	Drench application Apply as a single application within one (1) month after harvest. Drench around the base of the vine in 500 ml water. Increase water volume to 1 l mixture/vine under dry land conditions and in sandy soils. Do not apply ACTARA SC through the irrigation system. ACTARA SC can be applied to dry land and irrigated grapes.

Refer to USE RESTRICTIONS and APPLICATION TECHNIQUES.

JATROPHA

Pest	Dosage	Remarks
Chrysomelidae beetle e.g., golden flea beetle (<i>Alticidae</i> spp.)	0.25 ml/ seedling 3 ml/plant	Drench application Seedling Apply in 20 ml drench solution on actively growing seedlings between 28 and 30 days after sowing. Mature plants Apply after sprouting and full-foliation in late spring or early summer. Apply on actively growing plants as a soil drench around the base of the plant in 1 000 ml drench solution or apply ACTARA SC as soon as the pest is noticed.

MANGOES

Pest	Dosage	Remarks
Mango scale (<i>Aulacaspis tubercularis</i>) [suppression]	6 ml/tree	Drench application Apply post-flowering. The best results are achieved in orchards with a drip irrigation system where the product

MAGOES cont.

Pest	Dosage	Remarks
Mealybug <i>(Planococcus citri, Pseudococcus longispinus, Nipaecoccus viridus)</i> Mango seed weevil <i>(Sternonchetus mangiferae)</i>	6 ml/tree	<p>is applied directly under the dripper. In cases where there are two (2) drippers per tree, the application volume should be divided in two (2) equal parts and half-applied under each dripper.</p> <p>In orchards with micro-irrigation systems, apply ACTARA SC around the base of the trunks. Mix with 1 ℓ of water and apply with a jug.</p> <p>Mango scale may still occur on some fruit, despite treatment with ACTARA SC.</p> <p>ACTARA SC must only be applied as a soil drench application if a micro- or drip irrigation system is present and not under dry land conditions. Poor or ineffective irrigation systems can hamper the efficacy of the product.</p>

Refer to USE RESTRICTIONS, APPLICATION TECHNIQUES and POLLINATOR PRECAUTIONS.

POTATOES

Pest	Dosage	Remarks
Potato Snout Beetle <i>(Sciobius horni)</i> Aphids <i>(Myzus persicae, Macrosiphum euphorbiae, Aphis gossypii, Smynthuodes betae, Aulacorthum solani and Rhopalosiphoninus latysiphon)</i>	9 ml/100 m row	<p>In-furrow application</p> <p>Apply ACTARA SC as a single in-furrow band application (up to 20 cm wide), at planting, before, or after tuber placement.</p>

SUGARCANE

Pest	Dosage	Remarks
Yellow sugarcane aphid <i>(Sipha flava)</i>	900 ml/ha	<p>Apply once only, in 200 - 300ℓ water/ha:</p> <p>Plant cane</p> <p>Apply as a single in-furrow band application (30 - 50 cm wide), at planting, after placement of the seed cane, as the last operation before closing.</p> <p>Ratoon cane</p> <p>Apply between seven (7) and 30 days after harvesting.</p> <p>For bee safety, ensure that stubble is dry before applying the product.</p> <p>Apply as a broad band application over the cane rows.</p>

TOMATOES

Pest	Dosage	Remarks
Whiteflies <i>(Trialeurodes)</i>	0.03 ml/plant	<p>Drench application</p> <p>Apply at transplant or shortly</p>

TOMATOES cont.

Pest	Dosage	Remarks
<i>vaporariorum, Bemisia tabaci)</i>	followed by 0.09 ml/plant	<p>afterwards as a soil drench in 50 ml water/plant. In case of high whitefly pressure, repeat application 28 days later.</p> <p>Apply around the base of the stem of the plant in 50 ml water/plant.</p> <p>Irrigate within 24 hours after each application.</p> <p>ACTARA SC soil drenches must not be applied more than twice per crop cycle.</p> <p>For good resistance management, alternate ACTARA SC applications with whitefly remedies belonging to a different chemical class.</p>

Refer to POLLINATOR PRECAUTIONS.

TREE NUTS

(Includes almonds, macadamias, pistachios, walnuts, hazelnuts and pecan nuts)

Pest	Dosage	Remarks
Stinkbug complex	9 ml/tree followed by 6 ml/tree	<p>Drench application</p> <p>The first application at the end of flowering followed by a second application 90 days hereafter.</p> <p>The best results are achieved in orchards with a drip irrigation system where the product is applied directly under the dripper.</p> <p>In cases where there are two (2) drippers per tree, the application volume should be divided in two (2) equal parts and half applied under each dripper. In orchards with micro-irrigation systems, apply ACTARA SC around the base of the trunks.</p> <p>Mix with 1ℓ of water and apply with a jug. Irrigate within 24 hours after application.</p> <p>ACTARA SC soil drenches must not be applied more than twice per crop cycle.</p>

Refer to POLLINATOR PRECAUTIONS.

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