

# Tamaai 200 SC

Reg. No.: L 11500 Act /Wet No. 36 of/van 1947

A suspension concentrate insecticide with contact and stomach action for the control of thrips in citrus and mangoes; and harvester termite in field, grazing and row crops.

## ACTIVE INGREDIENT

Fipronil (phenyl pyrazole) 200 g/ℓ

IRAC INSECTICIDE GROUP CODE

2B



## WARNING

**HAZARD STATEMENTS:** Harmful if swallowed | Harmful in contact with skin  
Harmful if inhaled | Causes damage to the heart, the blood and the nervous system through prolonged or repeated exposure | Very toxic to aquatic life with long-lasting effects.

**PRECAUTIONARY STATEMENTS:** Do not breathe dust/fume/gas/mist/vapours/spray  
Wash thoroughly after handling | Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area | Contaminated work clothing should not be allowed out of the workplace | Avoid release into the environment.

**Registration holder: Green Island Investments (Pty) Ltd.**  
Co. Reg. No.: 2013/043963/07  
P.O. Box 1822, Heidelberg 1438, South Africa  
Tel: 078 737 9236

## 24 HR EMERGENCY NUMBERS

Griffon Poison Information Centre: +27 82 446 8946  
24 Hr Transport / Spill emergency no:  
(Hazcall24) +27 86 044 4411 (Typhoon Plant Protection)

**Distributed by: Typhoon Plant Protection (Pty) Ltd.**  
Co. Reg. No.: 1998/006156/07, C/O Farm Vlakfontein  
Corner of the R23 Benoni Road & R550 Nigel Road  
Brakpan District, Heidelberg 1438, Gauteng, South Africa  
Tel: 078 737 9236

Net Volume:

ℓ

Expiry Date:  
Batch No:  
Date of Manufacture:  
U.N. No. 3082

 **Typhoon**  
PLANT PROTECTION

READ LABEL IN DETAIL BEFORE OPENING THE CONTAINER. FOR FULL PARTICULARS, SEE ENCLOSED LEAFLET.  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



## WARNINGS:

**Important:** Before **TAMAAI 200 SC** is applied, the following must be adhered to:

|                                                                                 |                                             |
|---------------------------------------------------------------------------------|---------------------------------------------|
| CITRUS (nursery trees, transplants, interplants and bearing trees) and MANGOES: | Remove all out of season fruit.             |
| LEMON TREES:                                                                    | Remove all fruit, including immature fruit. |

### HAZARD STATEMENTS:

- Harmful if swallowed.
  - Harmful in contact with skin
  - Harmful if inhaled.
  - May cause an allergic skin reaction.
  - Causes damage to the heart, the blood and the nervous system through prolonged or repeated exposure.
  - Very toxic to aquatic life with long lasting effects
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- Handle the product with care.
  - Harmful if swallowed and by skin contact.
  - Harmful if inhaled.
  - Slight irritant to skin.
  - Mild eye irritant.
  - Very toxic to fish and aquatic invertebrates.
  - Highly toxic to bees.
  - Store in a cool, dry place and away from food, feeds and seed.
  - Keep out of reach of children, uninformed persons and animals.
  - **Re-entry: Do not** enter treated area within 2 days after treatment unless wearing protective clothing.
  - In case of poisoning call a doctor and make the label available to him.

**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 climatic and storage conditions; quality of dilution water, incompatibility with other substances not indicated on the label and the occurrence of resistance of the pests to the remedy concerned as well as by the method, time and accuracy of application. The registration holder further 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 to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.**

## PRECAUTIONS:

- **Do not** breathe dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - **Do not** eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Contaminated work clothing should not be allowed out of the workplace.
  - Avoid release into the environment.
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- **Do not** inhale fumes or spray mist.
  - Avoid skin and eye contact.
  - Wear protective clothing e.g. overall, face shield, rubber gloves and rubber boots when handling and mixing the product and whilst applying the spray mixture.
  - Wash immediately with soap and water after use and accidental skin contact.
  - Wash contaminated clothing after use.
  - **Do not** eat, drink or smoke while mixing or applying the product or before washing hands and face and changing clothing.
  - Avoid drift of spray mist onto other crops, grazing, rivers, dams and areas not under treatment.
  - Clean application equipment after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
  - 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 rinsings to the contents of the spray tank before destroying the container in the described manner.
  - Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
  - **Never** re-use the empty container for any other purpose.
  - Prevent contamination of food, feeds, drinking water and eating utensils.

## Related ingredients:

| Substance name (IUPAC)                                       | CAS - No.    | Concentration % By weight |
|--------------------------------------------------------------|--------------|---------------------------|
| Fipronil (Active ingredient)                                 | 120068-37-36 | 20%                       |
| Three phenylethyl phenol poly-ethylene polyoxyethylene ether | 79-41-4      | 10%                       |

## SYMPTOMS OF HUMAN POISONING:

May cause shortness of breath, excitement, involuntary shaking, convulsions, irritability. Signs and symptoms include nausea, vomiting, profuse sweating, drowsiness, agitation and coma and seizures in severe cases.

## FIRST AID TREATMENT:

The airway should be kept clear to maintain respiration. First aid treatment should be performed by qualified medical personnel and should include, if necessary, mouth-to-nose respiration and cardiac massage.

**Inhalation:** Immediately remove source of contamination or move the patient to fresh air. Keep the patient warm and at rest. Assure fresh air breathing. If breathing is difficult, give artificial respiration. Seek medical advice.

**Skin contact:** Move the patient to fresh air and remove contaminated clothing, shoes and leather goods immediately. Wash skin gently and thoroughly with clean water and non-abrasive soap until no evidence of chemical remains. Obtain medical attention if irritation persists.

**Eye contact:** Flush eyes immediately with large amounts of gently flowing clean water, occasionally lifting upper and lower lids, for at least 15 to 20 minutes until no evidence of chemical remains. Obtain medical attention if irritation persists.

**Ingestion:** Seek medical advice immediately and make the container or label or Data Sheet available. **Do not** induce vomiting without medical advice. Rinse mouth with water, only if the person is conscious. Never give anything by mouth to a semi-conscious or unconscious person. If vomiting occurs, take care to prevent vomit from being inhaled. Establish and maintain airway. Treat respiratory difficulty with artificial respiration.

#### **ADVICE TO PHYSICIAN:**

This product contains fipronil. No antidote is available. Treat symptomatically and supportively. Refer to the Material Safety Data Sheet for more information.

For fipronil overdose, recommendations for treatment are based on anticonvulsant therapy as routinely administered to humans.

Phenobarbital or diazepam may be useful in controlling convulsions. Gastric lavage should be performed in cases of significant ingestions, followed by administration of activated charcoal and sodium sulphate.

**Note:** Onset of symptoms may be delayed due to slow absorption of the compound.

#### **RESISTANCE WARNING:**

For resistance management, **TAMAAI 200 SC** is a **group code 2B insecticide**. Any insect population may contain individuals naturally resistant to **TAMAAI 200 SC** and other **group code 2B insecticides**. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **TAMAAI 200 SC** or any other **group code 2B 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.

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

##### **Compatibility:**

- **TAMAAI 200 SC** is compatible with the most wetters. Since it is not possible for the supplier to test the compatibility of **TAMAAI 200 SC** with all the possible combinations, the onus lies with the user to carry out a compatibility test, if tank mixtures with other pesticides and fertilizers are considered.
- **Do not** use mixtures that curdle, precipitate or grease.
- When **TAMAAI 200 SC** is used in combination with any other agricultural remedy, all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.

##### **Mixing Instructions:**

- Shake the **TAMAAI 200 SC** container well before opening.
- Half-fill the spray tank with clean water.
- Measure out the required quantity of **TAMAAI 200 SC** and premix this with at least 10 litres of clean water.

If any other product is to be added to the tank mixture, the required volume of that product must be premixed in similar fashion.

- Agitate the water in the spray tank and add the premixed product(s) to the tank.
- Fill the spray tank with water to the required volume, while maintaining agitation to ensure thorough mixing.
- Maintain agitation during spraying.
- Use the prepared mixture immediately.
- **Do not** allow to stand overnight.

#### **General Information:**

- **TAMAAI 200 SC** is rainfast once the spray is completely dry.
- All spray applications must be made with suitable equipment that is in good working order and correctly calibrated to give the desired coverage for the particular method of application.

#### **PREPARATION OF BAIT FOR HARVESTER TERMITE CONTROL:**

- Different bait carriers can be used, e.g. wheat chaff, coarse lucerne and cut field grasses.
- Always wear clean gloves when handling and during milling of the carrier and during bagging and applying prepared bait.
- Termites are very sensitive to foreign odours. Be careful not to contaminate the carrier and/or prepared bait with any other chemicals, odours, etc. Termites will reject contaminated bait.
- Ensure that the carrier is dry, thus not green before it is used as bait.
- Mill the carrier through a hammer mill with a 25mm sieve to ensure carrier size is of a size preferred by the termites.
- Weigh the carrier into batches of 10 kg and spread out over a clean, dry, even surface. Spread the 10 kg of carrier over an area of 2 x 2 metres.
- Ensure that the surface for preparing the bait, is clean from any chemical residues.
- Mix 12,5 ml **TAMAAI 200 SC** with 5 litres water for each 10 kg carrier pile.
- Use a knapsack sprayer to treat the carrier piles.
- When treating large quantities of carrier, a tractor mounted sprayer can be used. Leave space between the rows of carrier piles for the tractor wheels. Prevent contamination of the carrier with any foreign odours and chemicals e.g. tractor oil and other liquids.
- Turn the carrier with pitchforks whilst spraying to ensure even and good coverage of the carrier with the spray mixture.
- Allow the bait piles to dry completely. Turn the piles occasionally with pitchforks to ensure proper drying and to hasten the drying process.
- Bag the dry bait in **clean**, preferably unused bags. (Clean, unused 50 kg fertilizer bags are suitable.)
- **Indicate clearly on the bags** with a waterproof marker pen that the content is poisonous.

#### **Important Notes:**

- **Do not** contaminate the carrier or prepared bait during preparation with any foreign chemicals or odours.
- Contamination will cause the termites to reject the bait.
- Overdosing of bait with **TAMAAI 200 SC** will also cause the termites to reject the bait.
- Ensure correct and accurate application to the bait carrier to prevent over-dosing, especially when spraying with tractor mounted sprayers.

**APPLICATION RATES:**

| CROP/PEST:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DOSAGE RATE:            | REMARKS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CITRUS</b><br>Bearing Trees under integrated pest management or full chemical pest control.<br>Thrips                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7,5 - 10 mL/100 l water | Apply a single application between 90 to 100% petal drop and just before calyx closure. Apply as a light cover spray*.<br>In orchards with heavy thrip infestations or where expected and to extend the duration of control, use the higher dosage rate.<br>Application will also control citrus aphid, <i>Toxoptera</i> spp. if present at the time of application.<br>Always use registered insecticides from a different IRAC insecticide group, to control thrips occurring later in the season. Observe the necessary withholding period. Also refer to the 'Notes' below. |
| Nursery Trees and Non-bearing Trees under integrated pest management or full chemical pest control.<br>Thrips                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,5 - 10 mL/100 l water | In orchards/situations with heavy thrip infestations, use the higher dosage rate.<br>When additional treatments later in the season are required, always use registered insecticides from a different IRAC insecticide group.<br><b>Nursery Trees:</b> Applied only between August and November.<br><b>Non-bearing Trees:</b> To control thrips damaging the leaves, apply to active new growth flush.                                                                                                                                                                          |
| <b>NOTES:</b> <ul style="list-style-type: none"> <li>Note that the Citrus red mite (<i>Panonychus citri</i>) population may increase if present in the orchard at the time of treatment with <b>TAMAAI 200 SC</b>.</li> <li>When the Citrus red mite population exceeds the established threshold levels, apply an appropriate and registered product.</li> <li><b>TAMAAI 200 SC</b> is relatively soft on the red scale parasite (<i>Aphytis</i> spp).</li> <li><b>TAMAAI 200 SC</b> is toxic to bees.</li> <li>Before <b>TAMAAI 200 SC</b> is applied, remove beehives from orchards or place at least 100 metres away from area to be treated and close the hives. Keep the hives closed for at least 24 hours after application.</li> <li>Avoid drift of spray mist to the beehives and surroundings.</li> <li>Before <b>TAMAAI 200 SC</b> is applied, mow all flowering weeds or cover crops present in the orchard.</li> </ul> |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| CROP/PEST:                                                         | DOSAGE RATE:                                                                                                                                                                                                                                                      | REMARKS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MANGOES</b><br>Bearing trees<br>Thrips                          | 7,5 - 10 ml/100 ℓ water                                                                                                                                                                                                                                           | Apply a single application at 100% petal fall or just thereafter, but before the fruit reached pea size. Apply as a light cover spray*. In orchards with heavy thrip infestations or where expected and to extend the duration of control, use the higher dosage rate. Always use registered insecticides from a different IRAC insecticide group, to control thrips occurring later in the season. Observe the necessary withholding period. Also refer to the 'Notes' above, under ' <b>CITRUS</b> '.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>VELD, GRAZING &amp; ROW CROPS</b><br>Northern Harvester Termite | <p><b>Bait preparation:</b><br/>           Mix 12,5 ml <b>TAMAAI 200 SC</b> with 5 ℓ water, and apply mixture to 10 kg bait carrier</p> <p><b>Bait application:</b><br/>           Scatter 10 kg prepared bait evenly over 1 hectare (1 g bait/m<sup>2</sup>)</p> | <p><b>Refer to “PREPARATION OF BAIT FOR HARVESTER TERMITE CONTROL” and “Important Notes” above. Always wear clean gloves</b> when handling and during milling of the carrier and/or during bagging and applying prepared bait.</p> <p>Scatter prepared bait when termites become active and start to forage for dry grass. This is usually in April, at the beginning of winter. Also scatter the bait from mid-morning when the termites are active. Termite nests are usually present over a large area and it is therefore necessary to treat the entire infested area.</p> <p>In the event of decreased foraging activity and where most of the bait has not been harvested within 5 days of treatment, repeat the application.</p> <p>After strong winds and bait has been blown around, it may be necessary to repeat the application.</p> <p>When active foraging holes are noticed after the initial treatment, apply spot treatments at 1 gram bait per m<sup>2</sup>.</p> |

\* A light cover spray is the wetting of the entire foliage canopy and fruit to the point of run-off but without driving the spray jet into the tree.