

# Pegasus<sup>®</sup> 500SC

syngenta.

Reg. No. **L8668** Act No. 36 of 1947 **N-AR 1439** (Namibia) **W130607** (Botswana)

**A suspension concentrate acaricide and insecticide for the control of red spider mites and whiteflies in tomatoes.**



**Hazard statements:**

Harmful if swallowed or if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long-lasting effects.

**EMERGENCY TEL NO.:**

**+27 82 446 8946 (Griffon)**

**GROUP 12A INSECTICIDE**



**Precautionary statements:**

**Prevention:** Do not breathe dust/fumes/gas/mist/vapours/spray. Wash skin thoroughly after handling.

**Response:** If inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. Collect spillage.

**UN 3082**

**Active Ingredient:**  
**diafenthiuron (thio-urea)..... 500 g/ℓ**

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**WARNING**

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

**Hazard statements:** Harmful if swallowed or if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long-lasting effects.

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

**TOMATOES..... 4 days**

- Handle with care.
- Poisonous if swallowed or inhaled and harmful by prolonged contact with skin.
- Irritating to eyes.
- Toxic to fish, aquatic life and 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 well ventilated area.
- Avoid storage below 0°C and above 35°C.
- Once container has been opened, it should be used within a few days.

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 weed 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 animals 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:** Do not breathe

dust/fumes/gas/mist/Vapours/spray. Wash skin thoroughly after handling. **Response:** If inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. Collect spillage.

- Do not inhale the spray mist. Avoid contact with eyes and skin.
- Wear rubber gloves and a face shield when mixing and applying.
- Wash with soap and water after use.
- Wash contaminated clothing after use.
- Do not eat, drink, or smoke while mixing or applying the product or before washing hands and face.

**Environment**

- Spillage: Soak up with sand, sawdust or soil and shovel into waste containers.
- Do not contaminate stagnant or running water by disposal of waste.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.

**Disposal**

- Dispose of excess pesticide, spray mixture or rinsate where it will not contaminate crops, grazing, rivers, dams, boreholes, or areas not under treatment.
- Empty container completely.
- Destroy the container in the prescribed manner.
- Do not use the empty container for any other purpose.

**3. RELEVANT SUBSTANCES:**

Chemical name	
diafenthiuron	
Classification	Concentration (% w/w)
Acute Tox. 3; H331 STOT RE 2; H373 (Lungs) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 30 - < 50
M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	

#### 4. RESISTANCE MANAGEMENT:

**PEGASUS 500 SC** is a group code 12A insecticide. Any insect population may contain individuals naturally resistant to **PEGASUS 500 SC** and other group code 12A 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 **PEGASUS 500 SC** or any other group code 12A insecticide.

##### To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insect group code. Alternate or tank mix with products from different insecticide group codes.
- Integrate other control methods (chemical, cultural, biological) into insect control programs.
- An anti-resistance strategy in agricultural pests is very important.
- Use alternative products for the control of red spider mite and sucking pests in those areas where the cotton aphid has not yet developed resistance to organophosphates.

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

#### 5. PRODUCT CHARACTERISTICS:

- Excellent contact and stomach action and some ovicidal activity.
- Local systemic activity only (translaminar).
- Vapour action.
- Effective against both susceptible and organophosphate and carbamate resistant strains of mites and aphids.
- Slow initial activity but extended residual efficacy.

##### 5.1 Scouting

Make use of a scouting system and economic threshold values to determine when to commence application of **PEGASUS 500 SC** for insect and mite control in cotton and tomatoes.

**6. DIRECTIONS FOR USE:** Use only as indicated.

##### 6.1 Compatibility

The compatibility of **PEGASUS 500 SC** with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Syngenta and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application. **PEGASUS 500 SC** is compatible with most standard insecticides and fungicides of neutral reaction. In the event of any doubt, a compatibility test should be carried out.

##### 6.2 Mixing Instructions

- Half fill the spray tank with clean water and add the required quantity of **PEGASUS 500 SC**.
- Maintain agitation while topping up.
- Always stir the spray mixture well and apply within a few hours of mixing.

- **PEGASUS 500 SC** may be mixed with water of different pH values. Do not use products to acidify the water.

#### 6.3 Application Techniques

- Ensure equipment is correctly calibrated to give even distribution at the correct volume.
- Wash all equipment thoroughly after use.
- Wet the entire plant.
- Do not overdose by overlapping applications or by exceeding the recommended rate.
- Avoid spraying during the heat of the day, if foliage is wet, or if rain is imminent.
- **Allow 24 hours to expire between a PEGASUS 500 SC application and overhead irrigation.**

##### Ground application

###### 6.3.1 Tractor sprayers with spray boom for cotton application

- Apply a spray volume of at least 150 l/ha.
- Densely growing cotton will require higher spray volumes for improved coverage.

###### 6.3.2 Tractor sprayers for tomato application

- Apply using different spray volumes depending on plant size and application method.
- Ensure thorough wetting of the plants. For plants up to 600 mm use up to 500 l/ha water.
- For plants higher than 600 mm use up to 1 500 l water/ha.

###### 6.3.3 Mistblowers and low-volume spray applications for tomatoes

Complete coverage of the plant is vital. It is essential to apply the same volume of **PEGASUS 500 SC** per hectare as would be the case when high volume spray equipment is used, notwithstanding the volume of water per hectare applied.

#### 7. APPLICATION RATES:

##### COTTON

Pest	Dosage	No. of applications
<b>Spider mites</b> ( <i>Tetranychus spp.</i> )	800 mℓ/ha	1 - 2
<b>Aphid</b> ( <i>Aphis gossypii</i> ) <b>Leafhoppers</b> ( <i>Empoasca fascialis</i> = <i>Jacobiella fascialis</i> )	600 mℓ/ha	1 - 2

##### TOMATOES

Pest	Dosage	No. of applications
<b>Red Spider Mite</b> ( <i>Tetranychus urticae</i> )	80 mℓ/100 ℓ water	2 (7-day intervals)  Commence with application at a

**TOMATOES** cont.

Pest	Dosage	No. of applications
<b>Red Spider Mite</b> ( <i>Tetranychus urticae</i> )	80 ml/100 ℓ water	threshold of < 1.5 mobiles/compound leaf.
<b>Whiteflies</b> ( <i>Trialeurodes vaporariorum</i> and <i>Bemisia tabaci</i> )	60 ml/100 ℓ water	2 (7-day intervals)  Alternate with chemicals with a different mode of action to reduce resistance development.  See RESISTANCE MANAGEMENT notes.

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