



The miracles of science™

# AVAUNT®

Reg. No. L6678 Act No. 36 of 1947

Reg. Nr. L6678 Wet Nr. 36 van 1947

**A Suspension Concentrate  
stomach and contact insecticide for  
the control of various insect pests  
in cotton and maize.**

**‘n Suspensie Konsentraat maag  
en kontak insekdoder vir die  
beheer van verskeie plae op  
katoen en mielies.**

<b>INSECTICIDE GROUP CODE</b>	<b>22</b>	<b>INSEKDODER GROEP KODE</b>
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**ACTIVE INGREDIENT**

Indoxacarb (Oxadiazine)

150 g/litre

**AKTIEWE BESTANDDEEL**

Indoksakarb (Oksadiasien)

**Net Volume**

**1 l**

**Netto Volume**

**REGISTERED BY /  
GEREGISTREER DEUR:**

DUPONT DE NEMOURS INT S.A.  
Co. Reg. No. 81/008502/10  
P O BOX / POSBUS 3332  
HALFWAY HOUSE 1685  
Tel: (012) 683-5600

**24 HOUR/UUR EMERGENCY  
NUMBER/ NOODNOMMER:  
083 123 3911**

BATCH NUMBER  
DATE MANUFACTURED

\_\_\_\_\_  
\_\_\_\_\_

LOTNOMMER  
DATUM VERVAARDIG

**UN No. / VN Nr. 3082**

**HARMFUL  
SKADELIK**

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**A Suspension Concentrate stomach and contact insecticide for the control of various insect pests in cotton and maize.**

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**HARMFUL**

**Active ingredient:**

**Indoxacarb 150 g/l SC**

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## **WARNINGS:**

- THE FOLLOWING MINIMUM WITHOLDING PERIOD BETWEEN LAST APPLICATION AND HARVEST MUST BE ADHERED TO:

Maize and sweetcorn (grazing)	28 days
Maize and sweetcorn	3 days
- Do not graze treated cotton.
- Handle with care.
- May cause sensitisation by skin contact.
- Harmful by inhalation, contact and if swallowed.
- This product is toxic to bees, fish and other aquatic organisms (Refer GENERAL INFORMATION: BEES on this label)
- Keep out of the reach of children, uninformed persons and animals.
- Store in a cool place away from food and feed.
- Use of this material in a manner or at a time other than in accordance with the directions may cause excessive residues or other undesirable results.
- RE-ENTRY: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- AERIAL APPLICATION: Notify all inhabitants in the immediate vicinity of the lands to be sprayed and issue the necessary warnings. Do not apply over water surfaces and do not allow drift to contaminate water or adjacent areas.

**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, compatibility with other substances not indicated on the label and 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 to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier immediately in the event of any uncertainty.**

## **PRECAUTIONS:**

- Do not inhale spray mist.
- Do not enter treated areas until the sprayed solution has dried.
- **All persons in contact with the insecticide must wear protective clothing, (overalls, face shield, rubber boots and gloves).**
- Wash contaminated clothing daily.
- Do not get in eyes or on skin and clothing.
- Wash with plenty of soap and water immediately after accidental skin contact.
- In case of eye contact wash immediately with plenty of water.
- Remove clothing and shoes immediately should they become contaminated.
- Do not eat, drink or smoke whilst applying or mixing, or before washing hands and face.
- Prevent contamination of feed, food, eating utensils and drinking water.
- **DO NOT APPLY DIRECTLY TO AND PREVENT DRIFT ONTO OTHER EDIBLE CROPS, GRAZING, RIVERS, DAMS AND AREAS NOT UNDER TREATMENT.**
- Clean application equipment after use.
- Dispose of wash water where it will not contaminate grazing, food or water.
- Invert the empty container over the spray or mixing tank and allow to drain for 30 seconds after the flow has slowed down to a drip. Thereafter rinse the empty container three times with a volume of water equal to minimum of 10 % of that of the container before destroying the container in the prescribed manner.
- Destroy empty container by perforation and flattening and never re-use for any other purpose.

## **RESISTANCE**

**AVAUNT**<sup>®</sup> is a group code 22 insecticide. Any insect population may contain individuals naturally resistant to **AVAUNT**<sup>®</sup> and other group code 22 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **AVAUNT**<sup>®</sup> or any other group code 22 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.

As a result of its unique mode of action, **AVAUNT**<sup>®</sup> is ideally suited for applications where resistance management is important. Whilst there is no evidence of insect resistance to **AVAUNT**<sup>®</sup>, these guidelines will maximise the effective life of the product:

1. Where appropriate, alternate **AVAUNT**<sup>®</sup> with compounds from different chemical classes (carbamate, pyrethroid, organophosphate and insect growth regulant).
2. Do not exceed the maximum number of applications per season with **AVAUNT**<sup>®</sup> (refer to instructions under **DIRECTIONS FOR USE** on this label).
3. Monitor insect populations and apply **AVAUNT**<sup>®</sup> according to the label instructions when locally determined economic thresholds are reached. More than one application may be necessary for any one infestation.
4. Follow the label recommendations precisely for application rates, spray intervals and the optimum timing to apply **AVAUNT**<sup>®</sup>.

5. **AVAUNT**<sup>®</sup> has a minimum effect on beneficial insects and mites, which provides a natural form of pest regulation and thus further decrease the risk of resistance development.

Contact the registration holder of this product for more specific information on resistance management.

**GENERAL INFORMATION:**

**AVAUNT**<sup>®</sup> has a novel mode of action. The product acts by inhibiting sodium ion entry into nerve cells, resulting in paralysis and death of the pest species. Death of the pest occurs within 1-2 days, but inhibition of insect feeding occurs very rapidly (within 2-8 hours).

**AVAUNT**<sup>®</sup> is active as a larvacide through ingestion (stomach action) and through cuticular absorption (contact action). **AVAUNT**<sup>®</sup> is equally active on larvae of all development stages.

**AVAUNT**<sup>®</sup> is virtually a Lepidoptera specific insect control agent and is safe to most beneficial insects, including predatory mites.

**AVAUNT**<sup>®</sup> is also effective in hot climatic conditions.

**BEES:** Under normal field conditions, **AVAUNT**<sup>®</sup> applied at recommended rates, has no significant effect on honeybees.

**RAINFEST PROPERTIES:** Once the spray mixture has dried on the target area, **AVAUNT**<sup>®</sup> will not wash off through rainfall or irrigation and these conditions will therefore not influence the normal residual activity of the product.

**DIRECTIONS FOR USE:**

**USE ONLY AS DIRECTED**

**COMPATIBILITY:** The compatibility of **AVAUNT**<sup>®</sup> has not been fully investigated. **AVAUNT**<sup>®</sup> is compatible with Cypermethrin (Reg. No. L4069 Act No. 36 of 1947), Polythrin (Reg. No. L5409 Act No. 36 of 1947), Agral 90 (Reg. No. L2987 Act No. 36 of 1947), H&R Crop Oil (Reg. No. L6802 Act No. 36 of 1947) and Agripon Super (Reg. No. L6126 Act No. 36 of 1947). For more compatibility information, or in the event of uncertainty, contact your nearest DuPont representative.



**NOTES: ECONOMIC THRESHOLD LEVELS:**

**BOLLWORM SPECIES IN COTTON:**

All sprays to be based on scouting, with weekly (8-20 weeks after emergence) inspection of 24 plants per 15 hectares.

**American bollworm (*Helicoverpa armigera*):**

Egg threshold: 12 per 24 plants

Larval threshold: 5 per 24 plants

**Red bollworm (*Diparopsis custanea*):**

Egg threshold: 6 per 24 plants

Larval threshold: 2 per 24 plants

**Spiny bollworm (*Earias sp.*):**

Larval threshold: 2 per 24 plants

**LEAFHOPPERS (JASSIDS) IN COTTON:**

Commence applications when two leafhoppers (adults and/or juveniles) occur per leaf.

CROP/PEST	APPLICATION RATE	RECOMMENDATIONS / REMARKS
<p><b>MAIZE</b> (including sweetcorn)</p> <p>Stalk borer (Larvae) (<i>Busseola fusca</i>)</p> <p>Sorghum stem borer (Larvae) (<i>Chilo partellus</i>)</p> <p>American Bollworm (Larvae) (<i>Helicoverpa armigera</i>)</p>	<p><b>GENERAL SOIL APPLICATION:</b></p> <p>250 ml/ha <b>AVAUNT</b><sup>®</sup> + 250 ml/ha cypermethrin + 0.5 l/ha H&amp;R Crop Oil or Agripon Super or 225 ml/ha Agral 90</p> <p><b>ROW APPLICATION:</b> 2.5 ml/100 m plant row <b>AVAUNT</b><sup>®</sup> + 2.5 ml/100 m plant row cypermethrin + 3.3 ml/100 m plant row H&amp;R Crop Oil or Agripon Super or 1.5 ml/100 m plant row Agral 90</p>	<p><b><u>APPLY AVAUNT<sup>®</sup> PLUS CYPERMETHRIN TANK MIXTURES PREVENTIVE OR AS AN EARLY CORRECTIVE TREATMENT</u></b></p> <p>Apply a minimum of 450 l spray mixture per hectare. Apply over the funnel of the plants and ensure thorough coverage of the foliage. To ensure optimum results, application must take place early in the morning when dew is present. The absence of rain within 3 days of application or irrigation after application can lead to a decrease in control with <b>AVAUNT</b><sup>®</sup> spray mixtures. Water after application is essential to wash the spray mixture in the funnel.</p> <p>Apply 3 l spray mixture per 100 m plant row over the funnel of the plants and ensure thorough coverage of the foliage. To ensure optimum results, application must take place early in the morning when dew is present. The absence of rain within 3 days of application or irrigation after application can lead to a decrease in control with <b>AVAUNT</b><sup>®</sup> spray mixtures. Water after application is essential to wash the spray mixture into the funnel.</p> <p><b>NB: For instructions for control of stalk borer, stem borer and American bollworm with AVAUNT<sup>®</sup> plus cypermethrin tank mixtures on maize, see IMPORTANT NOTES below:</b></p> <p>Under conditions of repeated infestation, apply <b>AVAUNT</b><sup>®</sup> in a 10-14 day spray program. Use the shorter spray interval when the pest infestation pressure is high or when maize is growing fast.</p> <p>Do not exceed the maximum of 3 <b>AVAUNT</b><sup>®</sup> applications per season.</p> <p><b>NB: Do not apply AVAUNT<sup>®</sup> on maize that is under drought stress. Larvae that have already tunnelled into the funnels will not be controlled with AVAUNT<sup>®</sup> spray mixtures.</b></p>

CROP/PEST	APPLICATION RATE	RECOMMENDATIONS / REMARKS
<p><b>MAIZE</b> (including sweetcorn)</p> <p>Stalk borer (larvae) (<i>Busseola fusca</i>)</p> <p>Sorghum stem borer (Larvae) (<i>Chilo partellus</i>)</p> <p>American Bollworm (Larvae) (<i>Helicoverpa armigera</i>)</p>	<p><b>APPLICATION WITH PIVOT IRRIGATION SYSTEM:</b></p> <p>250 ml/ha <b>AVAUNT</b><sup>®</sup> + 5 l/ha H&amp;R Crop Oil or Agripon Super</p> <p>OR</p> <p>250 ml/ha <b>AVAUNT</b><sup>®</sup> + 250 ml/ha cypermethrin + 5 l/ha H&amp;R Crop Oil or Agripon Super</p>	<p><b><u>APPLY AVAUNT<sup>®</sup> OR AVAUNT<sup>®</sup> PLUS CYPERMETHRIN TANK MIXTURES PREVENTIVE OR AS AN EARLY CORRECTIVE TREATMENT</u></b></p> <p><b>Ensure that the pivot irrigation system complies with the following specifications, before application starts:</b></p> <p>The distribution coefficient of the pivot irrigation system must be &gt;90 % and the pivot should not apply more than 5 mm (50 000 l) per hectare at maximum speed.</p> <p>Clean all the sieves of the pivot irrigation system before starting application. Calibrate the injection pump of the pivot irrigation system according tot the time it takes for the pivot irrigation system to complete one full circle.</p> <p>Set the pivot irrigation system to maximum speed so that as little water as possible (not more that 5 mm) is applied per hectare.</p> <p>Mix the <b>AVAUNT</b><sup>®</sup> and H&amp;R Crop Oil or Agripon Super beforehand in the application tank. Stir the spray mixture continuously before and during application.</p> <p>Inject the <b>AVAUNT</b><sup>®</sup> spray mixture in the main application line of the pivot irrigation system as soon as the pivot irrigation system reached maximum speed. Mark the position on the land when the spray mixture reaches the furthest end of the pivot irrigation system. Complete one full circle from the aforementioned point.</p> <p><b>NB: For instructions on the control of stalk borer, stem borer and American bollworm with AVAUNT<sup>®</sup> plus cypermethrin spray mixtures on maize, see IMPORTANT NOTES below:</b></p> <p>Under conditions of repeated infestation, apply <b>AVAUNT</b><sup>®</sup> in a 10-14 day spray program. Use the shorter spray interval when the pest infestation pressure is high or when maize is growing fast.</p> <p>Do not exceed the maximum of 3 <b>AVAUNT</b><sup>®</sup> applications per season.</p> <p><b>NB: Do not apply AVAUNT<sup>®</sup> on maize that are under drought stress. Larvae that have already tunnelled into the funnels will not be controlled with AVAUNT<sup>®</sup> spray mixtures.</b></p>



**IMPORTANT NOTES APPLICABLE TO STALK BORER, STEM BORER AND AMERICAN BOLLWORM CONTROL WITH AVAUNT® OR AVAUNT® PLUS CYPERMETHRIN TANK MIXTURES IN MAIZE:**

**Stalk borer (*Busseola fusca*) larvae:**

**Commercial maize:**

Apply preventively or when eggs are found on 5 % of the plants, or when 10 % of the plants are showing shot hole damage symptoms on the maize funnels, which are caused by small feeding larvae.

**Sweetcorn:**

Apply preventively, or when egg laying starts, or with the first signs of shot hole damage symptoms on the maize funnels.

**NB: Application must be done before larvae migrate to the stems of the maize plants and when larvae are smaller than the 2<sup>nd</sup> larval instar. Do not apply AVAUNT® on maize against stalk borer whilst the tassels are encircled by the flag leaf.**

**Sorghum stem borer (*Chilo partellus*) larvae:**

**Commercial maize:**

Apply preventively, or when eggs are found on 2,5 % of the plants, or when 5 % of the plants are showing shot hole damage symptoms on the maize funnels, which are caused by small feeding larvae.

**Sweetcorn:**

Apply preventively, or when egg laying starts or with the first signs of shot hole damage symptoms on the maize funnels.

**NB: Application must be done before larvae migrate to the stems of the maize plants and when larvae are smaller than the 2<sup>nd</sup> larval instar. Do not apply AVAUNT® on maize against stalk borer whilst the tassels are encircled by the flag leaf.**

**American Bollworm (*Helicoverpa armigera*) larvae:**

**Funnel infestation:**

Apply as for stalk borer (see notes above).

**Cob infestation:**

Apply when first larvae are observed on the beard (silk) during cob formation. Larvae that are already deep within in the beard or have migrated to the cobs will not be controlled.

**ACKNOWLEDGEMENT OF TRADEMARKS:**

- AGRAL 90 is the registered trademark of Kynoch Agrochemicals t/a as Plaaskem (Pty) Ltd.
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