

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



**ARENA 206 EC**

Reg. No. L 8532 Act/Wet No. 36 of/van 1947  
N-AR 1102

2: 17/10/2012 – May 2017

*An emulsifiable concentrate contact and stomach insecticide for the control of insects on crops as mentioned below.*

*'n Emulgeerbare konsentraat kontak- en maag insekdoder vir die beheer van insekte op gewasse soos hieronder aangedui.*

**ACTIVE INGREDIENTS / AKTIEWE BESTANDELE**

benfuracarb (carbamate) **200 g/l** benfurakarb (karbamaat)  
lambda-cyhalothrin (pyrethroid) **6 g/l** lambda-sihalotrin (piretroïed)

IRAC INSECTICIDE GROUP CODE **1A** IRAC INSEKDODER GROEPKODE  
IRAC INSECTICIDE GROUP CODE **3** IRAC INSEKDODER GROEPKODE



**villa**

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

Tel: 011 396 2233

Website / Webblad: [www.villacrop.co.za](http://www.villacrop.co.za)

UN Number: 2903



**HARMFUL  
SKADELIK**

Willow Set & Print 011 394-4486



GEBRUIKSAANWYINGS INGESLUIT

VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK

Date formulated:  
Formuleringsdatum:

REFER TO DETAILS PRINTED  
ON CONTAINER/BAG

Batch number:  
Lotnommer:

DIRECTIONS FOR USE ENCLOSED

**ARENA 206 EC**

Reg. No. 8532 / N-AR 1102 Act/Wet No. 36 of/van 1947

IRAC INSECTICIDE GROUP CODE / IRAC INSEKODER GROEPKODE: 1A &amp; 3

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 lambda-cyhalothrin (pyrethroid) / lambda-sihalotrin (piretroïed).....6 g/l

Registration holder / Registrasiehouer:

**VILLA CROP PROTECTION (PTY) LTD.**

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413,

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

**HARMFUL****SKADELIK****WARNINGS****Withholding periods:**

Minimum number of days between last application and harvest:	
Maize	Do not apply after tassel emergence
Sorghum	28 days

- Handle with care.
- Toxic if swallowed, inhaled and by skin contact.
- Very toxic to fish, bees and wildlife.
- Irritating to skin and eyes.
- Use the product according to directions for application to limit the risk towards bees, beneficial pest parasites, beneficial predators and fish.
- Do not apply when bees are most active. Do not direct spray towards beehives or allow spray drift in their vicinity.
- Do not spray over or allow drift to contaminate water bodies such as dams, ponds, rivers, streams or fish hatcheries.
- Store behind lock and key, in a cool, dry, well-ventilated place away from food, feedstuff, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning, immediately call a doctor and make this label available to him/her.**

**Aerial application:**

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or 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. The action and effect thereof may be effected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other products 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, 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.**

**PRECAUTIONS**

- Wear a face shield, rubber gloves and boots when handling the product, preparing and applying the spray mixture.
- Avoid eye splashes, skin contact and inhalation of spray mist.
- Wash with soap and water after use or after accidental skin contact.
- Wash contaminated clothing after use.

- Do not eat, drink or smoke whilst mixing or applying the product or before washing face and hands and change of clothing.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- 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.
- Destroy the container by perforation and flattening and dispose of it in a safe way.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

### **SYMPTOMS OF HUMAN POISONING**

Headache, fatigue, faintness, giddiness, excessive sweating, lacrimation, salivation, nausea, abdominal pain, vomiting, diarrhoea, tightness of the chest, anxiety, blurred vision, ocular pain, muscle twitching beginning in the eyelids and tongue, small pupils or mydriasis, respiratory distress, confusion, convulsions and coma. **Benfuracarb** is a carbamate compound, which inhibits cholinesterase. Systemic effects may begin within a few minutes or after several hours of exposure.

### **FIRST AID TREATMENT**

- Remove person immediately from source of poisoning to a cool, well-ventilated area and keep him/her calm and reassured. If breathing has stopped, give mechanical artificial respiration (not direct mouth-to-mouth). Qualified personnel should perform administration of oxygen. Get medical attention immediately.
- **Inhalation:** Maintain airway and administer oxygen if available. Keep affected person warm and at rest.
- **Skin contact:** Remove contaminated clothing immediately and rinse contaminated body area thoroughly with plenty of soap and cold water, followed by alcohol. Do not rub the skin. Emergency personnel should wear gloves and avoid contamination.
- **Eye contact:** Flush contamination out of eyes with clean lukewarm, gently flowing water for at least 20 minutes, while holding eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.
- **Swallowed:** If swallowed, rinse mouth thoroughly with water and immediately get medical attention. If person is alert and respiration is not depressed, give activated charcoal if instructed. Due to the aromatic solvent, **do not induce vomiting under any circumstance**. If vomiting occurs spontaneously, keep the person's head below the upper body to prevent aspiration. Establish and maintain an open airway.
- **Never** give anything by mouth to an unconscious person.
- **Take the person to a physician immediately.**

### **NOTE TO PHYSICIAN**

If consciousness level declines or vomiting has not occurred in 15 minutes, empty stomach by gastric lavage. Avoid aminoglycosides and succinylcholine. Phenothiazines, reserpine, aminophylline, morphine, furosemide, ethacrynic acid, Pralidoxime (2-PAM, Protopam) and other oximes are contra-indicated.

**Antidote:** Administer atropine sulphate intravenously or intramuscularly. In moderately severe poisoning administer atropine sulphate, 0.4 to 2.0 mg repeated every 15 minutes, until atropinization is achieved (dry, flushed skin, dry mouth and tachycardia). Maintain atropinization by repeated doses for 2 to 12 hours, or longer, depending on the severity of poisoning.

### **RESISTANCE WARNING**

**ARENA 206 EC** is a group code 1A and 3 insecticide. Any insect population may contain individuals naturally resistant to **ARENA 206 EC** and other group codes 1A and 3 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **ARENA 206 EC** or any other group codes 1A and 3 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 programmes.

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

### **USE RESTRICTIONS**

- For optimal control, larvae should not exceed 10 mm in length at the time of application.

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

#### **Compatibility:**

- **ARENA 206 EC** is compatible with adjuvants like **BREAK-THRU®** (L 6764) and **SOLITAIRE™** (L 6962).
- Do not mix with seaweed extracts, **Amitraz**, **Chinomethionat** and **Prothiophos**.
- The compatibility of **ARENA 206 EC** with other products may be influenced by several factors. As changing factors may vary, a physical compatibility test must always be performed before such a tank mixture is sprayed.
- When **ARENA 206 EC** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on the relevant labels.

#### **Mixing instructions:**

- Half fill the spray tank with clean water.
- Shake the **ARENA 206 EC** container well before use.
- Effectiveness of **ARENA 206 EC** can be affected by very hard water (> 1000 ppm solutes), and/or water exceeding a pH value of 7.
- Use **Commodobuff** buffer at the registered rate to adjust the pH of the water if not in the ideal range.
- **Commodobuff** buffer must be mixed with the water prior to the addition of **ARENA 206 EC**.
- Take approximately 10 liters of the pH-corrected water from the mixing tank and mix thoroughly with the required volume of **ARENA 206 EC**.
- 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:**

- All applications must be carried out with equipment that is in good working order and correctly calibrated, to ensure that the required droplet coverage on the target area for that method of application will be obtained.
- Ensure thorough penetration and coverage of the target crop.

#### **Ground application:**

- Use hollow cone nozzles that produce a medium to fine droplet size with conventional high volume sprayers.
- Calibrate spray equipment prior to application.
- Apply in at least 200 litres of water per hectare.

#### **Aerial application:**

Aerial application of **ARENA 206 EC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A spray mixture volume of 30 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 30 to 40 droplets per cm<sup>2</sup> must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 250 to 280 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.

- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
  - b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

### **APPLICATION RATES**

Refer to “IMPORTANT NOTES” listed below.

<b><i>Crop / Pest</i></b>	<b><i>Dosage rate / ha</i></b>	<b><i>Remarks</i></b>
<b><u>Maize &amp; Sorghum</u></b> Chilo stemborer ( <i>Chilo partellus</i> ) & Busseola stalkborer ( <i>Busseola fusca</i> ) (First & second generation)	1000 ml / ha	<b>The use of an organosilicone adjuvant like Break-Thru® at 100 ml per hectare or Solitaire™ at 0.05 % is recommended to increase spreading of spray droplets.</b>
		<b>Ground application:</b> Apply preventatively if a severe infestation is expected. Alternatively, spray correctively before or up to a maximum of not more than 5 % of plants showing very early stage “shot hole” damage.
		<b>Aerial application:</b> Apply as an <b>early corrective treatment</b> , as above in 30 to 40 litres water per hectare.

### **IMPORTANT NOTES**

- Application must be based on scouting results. Poor control can be expected if application is done when the threshold levels, as indicated above, are exceeded.
- Due to a decrease in systemic activity in plants that are nearing maturity, application must only be carried out on plants that are growing actively, before the tassels are enclosed by the flag leaf.
- Poor systemic activity, and therefore control, can be expected if the crop is under stress conditions, e.g. drought or flood stress.
- Poor control may be obtained if the larvae have already penetrated into the plant at the time of application.

The following product mentioned in this label may be replaced with equivalent products:

- **COMMODOBUFF** (L 5390 / N-AR 1107) = **AQUABUFF** (L 5451 / W 130060) = **PAZBUFF** (L 5385).

**COMMODOBUFF** and/en **AQUABUFF** are registered products of / is geregistreeerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

**PAZBUFF** is a registered product of / is 'n geregistreeerde produk van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

**BREAK-THRU®** is a registered product of / is 'n geregistreerde produk van  
**EVONIK DEGUSSA AFRICA (PTY) LTD.**

**SOLITAIRE™** is a registered product of / is 'n geregistreerde produk van  
**SAFAGRIC (PTY) LTD.**