

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



ACTION EC

Reg. No. L 8280 Act/Wet No. 36 of/van 1947
W 130999

1: 29/10/06 – Jan2019

*An emulsifiable concentrate systemic insecticide for the control of stalk borers
(Chilo partellus and Busseola fusca) in grain crops in the Highveld areas.*

*'n Emulgeerbare konsentraat sistemiese insekdoder vir die beheer van
stronkboorders (Chilo partellus en Busseola fusca) in graangewasse op die
Hoëveld.*

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

benfuracarb (carbamate) **200 g/l** benfurakarb (karbamaat)

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



villa

Registration holder / Registrasiehouer:
Universal Crop Protection (Pty) Ltd.
Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07
PO Box / Posbus 801, Kempton Park, 1620
Tel: 011 396 2233
Website / Webblad: www.villacrop.co.za

UN Number: 2991



**HARMFUL
SKADELIK**

Willow Set & Print 011 394-4486

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:

GEBRUIKSAANWYSINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:



ACTION EC

Reg. No. L 8280 / W 130999 Act/Wet No. 36 of/van 1947
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benfuracarb (carbamate) / benfurakarb (karbamaat) 200 g/l

Registration holder / Registrasiehouer:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

P.O. Box / Posbus 801

KEMPTON PARK, 1620 Tel. (011) 396 2233

**WARNINGS****Withholding periods:**

| Minimum time which should be allowed between the last application and harvest or grazing (feeding): | |
|---|-------------------------------------|
| Grain Sorghum | 28 days |
| Maize | Do not apply after tassel emergence |

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, UNIVERSAL CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Handle with extreme care.
- Poisonous by contact, swallowing or inhalation.
- A small quantity may be fatal if swallowed or inhaled.
- **ACTION EC** is a skin and eye irritant.
- Toxic to fish, bees and wildlife.
- **Flammable** - do not store or spray near open flames.
- Store in a cool, dry, well-ventilated place in the firmly closed original container, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of animals, children and uninformed persons.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a doctor immediately and make this label available to him/her.**

Aerial application:

Notify all inhabitants in the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas, e.g. crops, rivers, dams and wetlands.

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 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

- Avoid inhalation of the vapour or spray mist during mixing and spraying.
- Avoid contact with eyes, skin or clothing.

- Wear protective clothing - suitable overalls, rubber boots, gloves and a face mask or respirator when preparing the spray mixture and during application.
- Wash with soap and water after use and after accidental skin contact.
- Wash contaminated clothing after use with soap and water.
- Do not eat, drink or smoke whilst the product is mixed and applied and before washing hands and face and change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or any other area not under treatment.
- Clean the applicator thoroughly after use and dispose of wash water where it will not contaminate food, grazing, 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.
- Destroy the empty container by perforation and flattening.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Benfuracarb is a carbamate compound, which inhibits cholinesterase. Systemic effects may begin within a few minutes or several hours of exposure. Symptoms may include nausea, vomiting, fatigue, faintheartedness, dizziness, diarrhoea, abdominal cramps, headache, vertigo, tightness of the chest, anxiety, ocular pain, ciliary muscle spasm, blurred vision, small pupils, or mydriasis, lacrimation, salivation, sweating, and muscle twitching.

FIRST AID TREATMENT

- **General:** Remove the person immediately from the 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). Administration of oxygen should be performed by qualified personnel. Get medical attention immediately.
- **Inhaled:** 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.
- **Swallowed:** If swallowed, rinse mouth thoroughly with water and immediately get medical attention. Due to the aromatic solvent, do not induce vomiting under any circumstance. If vomiting occurs spontaneous, keep head below the hips to prevent aspiration. Establish and maintain airway. **Never** give anything by mouth to an unconscious person.
- **Take the patient 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, theophylline, morphine, 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

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

USE RESTRICTIONS

- Do not apply to crops under drought stress. Systemic activity is reduced by maturity. Therefore apply to maize, sorghum and sweetcorn which are growing actively and only apply up to the stage before the tassels/ears are **enclosed by the flag leaf** of the crops. Treat before larvae have entered the stalks.
- If the larvae are bigger than 1 cm (10 mm), or when re-infestation occurs, a second application may be necessary 10 to 12 days later.

DIRECTIONS FOR USE: Use only as directed.

Water quality - pH of the spray water:

- The effectiveness of **ACTION EC** may be affected adversely by very hard water (>1000 ppm solutes) and by alkaline water (with a high pH value).
- When using **ACTION EC**, the optimal effectiveness thereof will be obtained in spray water with a pH of 4.5 to 5.5. Water of a higher or lower pH than 4.5 to 5.5 should therefore be buffered to pH 4.5 to 5.5 by using **COMMODOBUFF** (L 5390).
- Where **Commodobuff** is used to adjust the pH of the water, the **Commodobuff** must be mixed with the total volume of water required for that particular tank mixture, before adding the **ACTION EC**.

Mixing instructions:

- Half fill the spray tank with clean water.
- First add the required quantity of **ACTION EC** to a small quantity of water in a mixing tank. Agitate thoroughly, to ensure that the product is completely in suspension.
- Add the premixed **ACTION EC** suspension to the water in the spray tank. Use mechanical or hydraulic agitation, to ensure thorough mixing while the spray tank is slowly filled with water to the required level.
- Ensure constant agitating of the spray mixture during mixing and spraying. Ensure thorough mixing.
- Apply the mixture immediately after mixing and do not allow the mixture to stand for prolonged periods, e.g. overnight, in the mixing tank.

APPLICATION

Ground application:

- **ACTION EC** can be applied with conventional high volume spray equipment. It is important that the sprayer will be calibrated prior to application, to ensure the correct delivery rate per hectare and that even distribution of the spray mixture is obtained over the target area.
- Apply in 200 litres water per hectare.

Aerial application:

Aerial application of **ACTION 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 to 40 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: 25 to 35 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 280 to 300 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 the 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:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - 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

| Crop / Pest | Dosage Rate | Remarks |
|--|---|---|
| Maize and Sorghum Stalkborers (<i>Busseola fusca</i> & <i>Chilo partellus</i>) | 1 ℓ ACTION EC PLUS 125 mℓ POLYTRIN® SUPER 100 SC (L 7262) per hectare | For Highveld areas only: Apply to vigorously growing crops up to the stage before the larvae enter the stalks. No systemic action can be expected after tassel formation or when plants are under drought stress. 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. Apply in 200 litres water when before the larvae have already started to migrate into the stalk. Aerial application: Apply in 30 litres water per hectare when 5 to 10 % plants show “shot hole damage”. |

COMMODOBUFF is a registered product of / is 'n geregistreerde produk van
VILLA CROP PROTECTION (PTY) LTD.

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