

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



ANTOKA 40 EC

Reg. No. L 10249 Act/Wet No. 36 of/van 1947

1: 28/2/2017 – Nov/2017

A systemic emulsifiable concentrate herbicide for the selective post-emergence control of volunteer maize and annual grasses as indicated.

'n Sistemiese emulgeerbare konsentraat onkruidodder vir die selektiewe na-opkoms beheer van opslagmielies en eenjarige grasonkruiide soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

quizalofop-P-tefuryl (aryloxyphenoxy propionate) 40 g/l kwisalofop-P- tefuriel (ariel-oksifenoksie propionaat)

HRAC HERBICIDE GROUP CODE **A** HRAC ONKRUIDDODER 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

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UN Number: 3082



Willow Set & Print 011 394-4486



**HARMFUL
SKADELIK**



GEBRUIKSAANWYSINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:

ANTOKA 40 EC

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ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

quizalop-P-tefuryl (aryloxyphenoxy propionate)

40 g/l

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Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

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

P.O. Box / Posbus 10413

ASTON MANOR, 1630 Tel. (011) 396 2233

HARMFUL / SKADELIK**WARNINGS**

- Handle with care.
- Harmful if swallowed.
- Product is an irritant. May cause skin sensitization.
- Avoid skin and eye contact.
- May cause harm to the unborn child. Possible risk of impaired fertility.
- Toxic to fish and aquatic life, may cause long-term effects in the aquatic environment.
- Store in its original container in a dry, cool, well-ventilated area.
- Store away from food and feeds.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

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 weeds 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 inhale the fumes or spray mist.
- Wash thoroughly with soap and water after use and in the event of 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 change of clothing.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean the applicator after use. Dispose of rinsate 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 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 the volume of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- **Do not** re-use the empty container for any other purpose but destroy it by perforation and flattening and dispose of according to local regulations.
- Prevent contamination of food, feeds, drinking water and eating utensils.

FIRST AID MEASURES:

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

- **Inhalation:** Immediately remove source of contamination or move victim to fresh air. **Seek medical advice immediately.**
- **Skin contact:** Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap and water. Seek medical advice if irritation persists.
- **Eye contact:** Flush eyes immediately with large amounts of gently flowing cold water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, get medical attention.
- **Ingestion:** Have victim rinse mouth thoroughly with water. **Do not induce vomiting**, due to the solvent base of the formulation. **Seek medical advice immediately.** If the person is alert and respiration is not depressed, give large quantity of water to drink. Never give anything by mouth to an unconscious person.

Advice to physician: Treat symptomatically and supportively. No specific antidote known.

RESISTANCE WARNING

ANTOKA 40 EC is a group code A herbicide. Any weed population may contain individuals naturally resistant to **ANTOKA 40 EC** and other group code A herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **ANTOKA 40 EC** or any other group code A herbicides.

To delay herbicide resistance:

- avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes,
- integrate other control methods (chemical, cultural, biological) into weed control programmes.

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

PRODUCT INFORMATION

ANTOKA 40 EC is a selective post emergent grass herbicide for control of grass weeds in fields that are under preparation for planting of crops. **ANTOKA 40 EC** is absorbed by the foliage of grass weeds and is translocated through the entire plant, where-after it accumulates in the growth tips of shoots and rhizomes where it adversely affects normal cell functions, leading to the eventual death of the plant. The first symptoms (stunting and chlorosis of the tips of shoots), normally appear 5 to 10 days after application. Final effects are normally visible 2 to 3 weeks after application, depending on conditions.

USE RESTRICTIONS

- **Do not plant any grain crop such as maize or grain sorghum, within 5 days following the application of ANTOKA 40 EC.**
- **Do not apply ANTOKA 40 EC in a tank mixture with any broadleaf herbicide. Allow at least 3 days between the application of ANTOKA 40 EC and a broadleaf herbicide.**
- Weeds which have not germinated at the time of application will not be controlled.
- Certain grass species propagate and distribute by means of seed and rhizomes (e.g. Johnson grass). Grasses that germinate from seed are well controlled by the recommended **ANTOKA 40 EC** dosage rate. Species that are growing from rhizomes, as well as grasses that have formed tufts, are more difficult to control. Higher application rates and/or follow-up applications may be necessary under these circumstances.
- Application of **ANTOKA 40 EC** to weeds under stress conditions (e.g. drought, cold spells, water logging, disease, frost, senescence, insect damage, wind damage, nutrient deficiencies) will result in poor control due to limited uptake and translocation.
- Sedges (e.g. Yellow and Purple nutsedge) and broadleaf weeds are **NOT** controlled by **ANTOKA 40 EC**.
- Do not apply over, or allow spray drift to come in contact with cereal crops.

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

- **ANTOKA 40 EC** must always be used in combination with the adjuvant **Direct**.
- Consult the **Velocity™-Super**, **Velocity™-DryMax** and **Summit Super** labels for **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**.
- **ANTOKA 40 EC** can usually be tank mixed with most commonly used insecticides and fungicides.

- **Never use ANTOKA 40 EC in any tank mixture with any broadleaf herbicide.**
- The compatibility of **ANTOKA 40 EC** with other products may be influenced by the formulation of the products involved, as well as water quality. As formulations of other products may change without the knowledge of the Registration holder, and water quality varies from farm to farm, a physical compatibility test must therefore always be done prior to application to confirm compatibility.

Mixing instructions:**Replace cap after use.**

- Half-fill the spray tank with clean water and ensure agitation.
- Add the required volume of **ANTOKA 40 EC** into the spray tank while agitation is maintained.
- Fill up with water to the final required volume.
- Ensure thorough agitation of the mixture in the tank during mixing and spraying.
- Tank mixtures must be sprayed out immediately and not be allowed to stand in the spray tank for long periods (e.g. overnight).

Application instructions:

- Apply **ANTOKA 40 EC** only on young weeds at the 2 to 6 leaf stage that are actively growing in moist soil.
- Ensure that all parts of the weeds are thoroughly covered by the spray mixture to obtain effective weed control.
- **Crop rotation and minimum re-cropping intervals:**
 - **ANTOKA 40 EC** can be used in crop rotation programmes as it is quickly degraded in the soil.

Ground application:

- **ANTOKA 40 EC** can be applied with a medium or high volume sprayer, that is correctly calibrated and in good working order, which will provide adequate coverage and even distribution.
- The sprayer must be equipped with an effective agitation mechanism.
- Use flat fan-type spray nozzles.
- Ensure thorough coverage of the weeds by using **not less than 200 litres** per hectare spray mixture.
- Apply **ANTOKA 40 EC** as a directed spray in orchards.

APPLICATION RATES

- Apply **ANTOKA 40 EC** only on actively growing grass weeds and/or volunteer maize, which are within the recommended growth stages as directed below.
- Also refer to “**USE RESTRICTIONS**” above and **NOTES** below.

Crop	Dosage per hectare ℓ/ha	Remarks
<u>Pre-plant control of volunteer maize and annual grass weeds</u>	1.0 ℓ PLUS 0.1 %* Direct (100 mℓ / 100 ℓ water) PLUS 2.0 %*** Velocity™-Super OR 1.0 %** Velocity™-DryMax	For the pre-plant control of volunteer maize growing in fields to be planted with maize or broadleaf crops. If arable fields are prepared for planting refer to “ USE RESTRICTIONS ” above for follow-up planting intervals.

* 0.1 % = 100 mℓ Direct in 100 litres water (99.9 litres water).

** 1.0 % = 1.0 kg Velocity™-DryMax in 100 litres water.

*** 2.0 % = 2 litres Velocity™-Super plus 98 litres water.

WEEDS CONTROLLED BY ANTOKA 40 EC plus adjuvants as indicated above:

IMPORTANT

Refer to “**USE RESTRICTIONS**” above and Notes below.

Grass weeds controlled		Weed stage & Dosage rate (ℓ / ha)	
Common name	Botanical name	Dosage rate ℓ / ha	Weed growth stage at time of application
<i>Digitaria sanguinalis</i>	Crab fingergrass	1.5	2 to 4-leaf stage
<i>Eleusine indica</i>	Goose grass	1.0	2 to 6-leaf stage
<i>Urochloa panicoides</i>	Herringbone grass	1.5	2 to 4-leaf stage
<i>Zea mays</i>	Volunteer maize	1.0	Not later than the 6-leaf stage.

NOTES

- Certain annual grass weeds not present in the development trials may also be controlled effectively. However, the registration holder does not accept any responsibility for control of weeds **NOT** listed above.
- Optimum results are obtained when **ANTOKA 40 EC** is applied onto young, actively growing volunteer maize or grasses during warm and humid conditions.
- ANTOKA 40 EC** may be applied at any time during the growing season, independent of crop development.
- Grass weeds that are overshadowed by the crop, or other weeds during application, will not be controlled effectively.
- Follow-up treatments are recommended in cases of irregular grass emergence. Apply the first application at the recommended time of application and the follow up treatment when new grasses have emerged.

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

- **DIRECT** (L 8680) = **LINK** (L 8675) = **SOLWET** (L 8679),
- **SUMMIT SUPER** (L 8539) = **BENEFIT PLUS** (L 8538),
- **VELOCITY™-SUPER** (L 9603) = **AMS-SUPER** (L 9758) and
- **VELOCITY™-DRYMAX** (L 9454 / N-AR 1528) = **AMS-GRANULE** (L 9610)

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