

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



ORION 240 EC

Reg. No. L 7432 Act/Wet No. 36 of/van 1947

2: 28/6/2012 – June 2017

*A selective contact herbicide for use in citrus, wine grapes, onions, garlic and brassicae crops for the control of annual broad-leaved weeds and grasses as indicated.*

*'n Selektiewe kontak onkruidoder vir gebruik in sitrus, wyndruiwe, uie, knoffel en koolgewasse vir die beheer van eenjarige breëblaaronkruiden en grasse soos aangedui.*

**ACTIVE INGREDIENT / AKTIEWE BESTANDEEL**

oxyfluorfen (diphenyl ether) **240 g/l** oksifluorfen (difenieler)

HRAC HERBICIDE GROUP CODE **E** HRAC ONKRUIDODER GROEPCODE



**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  
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UN Number: 1993

Willow Set & Print 011 394-4486



CAUTION  
VERSIGTIG



GERUUKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK

Date formulated:  
Formuleringsdatum:

REFER TO DETAILS PRINTED  
ON CONTAINER/BAG

Batch number:  
Lohnommer:

DIRECTIONS FOR USE ENCLOSED

**ORION 240 EC**

Reg. No. L 7432 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: E

**ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:**

oxyfluorfen (diphenyl ether) / oksifluorfen (difenieleter) .....240 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

**CAUTION / VERSIGTIG****WARNINGS**

- Harmful by inhalation.
- Harmful when swallowed.
- Do not induce vomiting if swallowed, since the product contains an aromatic solvent.
- Irritating to eyes, respiratory system and skin.
- Risk of serious damage to eyes.
- Very toxic to fish and aquatic organisms. Do not contaminate dams, rivers, lakes or any other water sources.
- **Flammable** – do not store or spray near open flames.
- Store in a cool, dry, well-ventilated area.
- Store away from food, feeds, seed, fertilizers and other agricultural chemicals.
- 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 spray fumes or spray mist.
- Avoid contact with skin, eyes and clothes.
- Wear safety goggles, a respirator and rubber gloves when handling, preparing and applying the spray mixture.
- Wash with soap and water immediately after use and accidental skin contact.
- In case of contact with eyes, immediately flush the eyes with clean, gently flowing lukewarm water for at least 20 minutes, holding the eyelid(s) open. If irritation persists, seek medical advice.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing, applying or before washing hands and face or change of clothing.
- Prevent drift on to other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Keep the product away from sources of ignition.
- Clean the applicator after use and dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- Containers must be completely emptied, before being disposed of.
- **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.

- **Do not** re-use the container for any other purpose.
- **Do not burn the empty container.**
- Prevent contamination of food, feeds, drinking water and eating utensils.

### **RESISTANCE WARNING**

**ORION 240 EC** is a group code E herbicide. Any weed population may contain individuals naturally resistant to **ORION 240 EC** and other group code E herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **ORION 240 EC** or any other group code E herbicide.

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.

### **USE RESTRICTIONS**

- The application of **ORION 240 EC** is crop specific and recommendations as per crop should be adhered to.
- **ORION 240 EC** should be applied on a clean soil surface, without any plant residues that could impair activity. It is therefore not suitable for use in minimum tillage systems.
- Soil disturbance after application will affect weed control detrimentally.
- **ORION 240 EC** should be applied to moist soil and the soil must remain moist as long as possible, to enhance residual activity. Uneven irrigation may result in variable weed control.
- **ORION 240 EC** should not be mixed or used in conjunction with any other herbicide, unless recommended.
- Thorough and deep ploughing is recommended before planting a follow-up crop on an **ORION 240 EC** treated field. A waiting period of at least two months for each litre of **ORION 240 EC** sprayed per hectare is recommended before planting a follow-up crop.
- Direct seeded crops into soil that has been treated within 18 months with **ORION 240 EC**, should not be treated with any acetamide herbicide.
- **Do not** use on the onion cultivar Texas Grano in the winter rainfall region.
- Slight scorching and pigtailling of leaves may occur shortly after application in onions, but it disappears soon and has no long-term effect.
- **Do not use on onions in the Northern Province.** Use only in winter rainfall region on onions.

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

- Add the required quantity of **ORION 240 EC** to the water in the spray tank. Ensure thorough agitation of the mixture in the spray tank during mixing and spraying.
- Apply **ORION 240 EC** with a properly calibrated sprayer with flat fan spray nozzles, ensuring even distribution of the spray mixture.

### **APPLICATION RATES**

#### **ANNUAL CROPS**

<i>Crop</i>	<i>Dosage per hectare</i>	<i>Remarks</i>
<b>Garlic</b>	3.0 ℓ / 350 ℓ water	Apply <b>ORION 240 EC</b> immediately after planting. Leaf scorch and/or pigtailling may occur, especially under cold, wet and windless conditions. High soil temperatures may delay emergence and cause leaf scorch.

<b>Crop</b>	<b>Dosage per hectare</b>	<b>Remarks</b>
<b>Onions</b> (Winter rainfall region only) Transplanted	3.0 ℓ / 350 ℓ water	Apply <b>ORION 240 EC</b> when plants have reached the 2 to 3 true leaf growth stage. Apply directly after transplanting, followed by irrigation. Weak plants may be susceptible to damage.
	<b>OR</b> 1.5 ℓ <b>AND</b> 1.5 ℓ	Apply immediately after transplanting and follow up with a further application at the same rate after a month.
Seed production (Hybrids)	3.0 ℓ / 350 ℓ water	Apply <b>ORION 240 EC</b> immediately after planting the female bulbs.
	<b>OR</b> 1.5 ℓ <b>AND</b> 1.5 ℓ	Apply immediately after planting and follow up with a further application at the same rate after a month.
Seeded directly	<b>Karoo region</b> 3.0 ℓ / 240 ℓ water	Apply <b>ORION 240 EC</b> to Golden Globe and Australian Brown cultivars in the 3 to 4 leaf growth stage only (2 to 3 months after sowing). Application may be delayed for up to a month, if weed development is slow.
<b>Brassicae crops</b>	2.0 to 3.0 ℓ / 350 ℓ water	Apply <b>ORION 240 EC</b> as an overall broadcast treatment. Transplant seedlings 7 to 10 days later. Irrigate immediately after transplanting. Temporary slight leaf scorch may occur. Use the lower rate for broadleaf weed control only or where only 2 months weed control is required. The soil surface should be free of clods and organic material. Do not apply <b>ORION 240 EC</b> after transplanting the crops, as this will cause severe crop injury. Do not use when planting by machine. Soil disturbance after application will reduce weed control efficacy. Do not use this product during cool periods in autumn; winter and early spring as cool, wet and windless conditions may result in injury.

**NOTE**

Use **ORION 240 EC** on the following Brassicae cultivars.

<b>Cauliflower</b>	Couchamp, Igloo, Snowcap, Snowcrown, Snow February, Snowking.
<b>Cabbage</b>	Bonanza, Cape Spitz, Drum Head, Gloria Osen, Glory of Enkhuizen, Green Coronette, Hercules, NS Cross, Rodelle, Rolan, Shamrock.
<b>Brussels sprouts</b>	Jade Cross, Long Island.
<b>Broccoli</b>	Green Sprouting, Calabrese, Late Corona.

**PERENNIAL CROPS**

- Avoid direct application of **ORION 240 EC** directly on to citrus trees or wine grape leaves, for this will lead to localized leaf damage.
- Under cold, wet and moist conditions **ORION 240 EC** vapours may cause scorching of the lower leaves (especially in young trees). This localized scorching will not influence further growth under normal conditions.
- Sensitive nearby growing crops or crops in between the vines and rows, may be damaged by the vapour action of **ORION 240 EC**.
- **ORION 240 EC** must be applied to a clean soil surface. To achieve this effect all weeds present, should be removed either by hand or by using a suitable contact herbicide.

<b>Crop</b>	<b>Dosage per hectare</b>	<b>Remarks</b>
<b><u>Citrus</u></b>	3.0 to 4.0 ℓ / 500 ℓ water	Apply to citrus trees of all ages as well as citrus nurseries. Application of <b>ORION 240 EC</b> on citrus bearing orchards should be at least 3 weeks before blossoming or 3 weeks after fruit set. Avoid application during periods of foliar growth. Only apply when foliar growth is completed and foliage is totally expanded and mature. For broadleaved weed control, use lower dosage rate.
<b><u>Wine grapes</u></b>	3.0 to 4.0 ℓ / 500 ℓ water	Apply only in well-established trellised vines. Application period is from the beginning of July until the end of July. Do not apply later than one month before budding.

#### WEEDS CONTROLLED BY ORION 240 EC:

<b>Annual Broadleaf Weeds</b>	
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus hybridus</i>	Common pigweed
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Anagallis arvensis</i>	Pimpernel
<i>Arctotheca calendula</i>	Cape marigold
<i>Argemone subfusiformis</i>	White flowered Mexican poppy
<i>Capsella bursa-pastoris</i>	Shepherd's purse
<i>Chenopodium album</i>	White goosefoot
<i>Datura stramonium</i>	Thorn apple
<i>Emex australis</i>	Spiny emex
<i>Fumaria muralis</i>	Fumitory
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Oenothera stricta</i> -	Evening primrose
<i>Plantago lanceolata</i>	Narrow leaved ribwort
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Portulaca oleracea</i>	Purslane
<i>Raphanus raphanistrum</i>	Common wild radish
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Silene gallica</i>	Gunpowder weed
<i>Sisymbrium thellungii</i>	Common wild mustard
<i>Sonchus oleraceus</i>	Sowthistle
<i>Spergula arvensis</i>	Com spurry
<i>Stellaria media</i>	Chickweed
<i>Tagetes minuta</i>	Khaki weed
<b>Annual Grass Weeds</b>	
<i>Avena fatua</i>	Common wild oats
<i>Digitaria sanguinalis</i>	Crab finger-grass
<i>Echinochloa crusgalli</i>	Barnyard grass
<i>Eleusine indica</i>	Goose grass
<i>Lolium multiflorum</i>	Italian ryegrass
<i>Poa annua</i>	Winter grass

#### WEEDS CONTROLLED BY ORION 240 EC:

<b>POST-EMERGENCE AT 1.0 to 1.5 litres per hectare</b>	
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Argemone subfusiformis</i>	White flowered Mexican poppy
<i>Capsella bursa-pastoris</i>	Shepherd's purse
<i>Portulaca oleracea</i>	Purslane