


GALIGAN[®] 240 EC

Reg. no. L5782 Act/Wet 36 of/van 1947
N-AR 0490



READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP	E	HERBICIDE
An emulsifiable concentrate herbicide for use in crops, orchards and forestry to control a variety of annual broadleaf and grass weeds as indicated.		'n Emulgeerbare konsentraat onkruidodder vir gebruik in gewasse, boorde en bosbou teen 'n verskeidenheid eenjarige grasse en breëblaaronkruides soos aangedui.
 <p style="text-align: center;">DANGER</p>		<p>Hazard statements May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Flammable liquid and vapor.</p> <p>Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid release to the environment.</p>

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

oxyfluorfen (diphenyl ether) 240 g/L oksifluorfen (difenieleter)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

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IN CASE OF POISONING, CALL THE FOLLOWING NUMBERS:

Griffon Poison Information Centre:
+27 82 446 8946 or
Tygerberg Poison Information Centre:
+27 861 555 777

EMERGENCY NUMBER:

SPILL TECH: +27 86 100 6366 or +27 83 253 6618

UN no.: 1993

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum



GHS information

WARNINGS

- May be fatal if swallowed and enters airways.
 - Causes skin irritation.
 - Causes serious eye damage.
 - May cause respiratory irritation.
 - May damage fertility or the unborn child.
 - May cause damage to organs through prolonged or repeated exposure.
 - Very toxic to aquatic life with long lasting effects.
 - Flammable liquid and vapor.
- Avoid eye and skin contact.
 - Store in a cool place away from food and feedstuffs.
 - Flammable - do not expose to heat and flames.
 - Do not contaminate dams, lakes, rivers or any other body of water.
 - **Re-entry:** Do not enter treated field within 1 day after application unless wearing protective clothing.
 - **Safety to crops:** **GALIGAN® 240 EC** is likely to be safe for use on most common cultivars, (OR on cultivars as indicated on the label) excluding cultivars known to be sensitive to **GALIGAN® 240 EC** or oxyfluorfen.
 - **GALIGAN® 240 EC** is not tested on new cultivars. Where a new cultivar is planted, large areas should not be treated with **GALIGAN® 240 EC** without prior consultation with an ADAMA South Africa representative and testing on that cultivar.
 - **GALIGAN® 240 EC** is also not commonly tested on speciality/niche cultivars such as cultivars planted for seed production. These crops should be treated the same as new cultivars.
 - ADAMA South Africa cannot be held liable for damage resulting from use of **GALIGAN® 240 EC** on cultivars on which the product has not been tested to confirm crop safety.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not guarantee that it will be effective under all conditions. The activity 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 pests against the remedy 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 by 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

- Keep out of reach of children.
 - Obtain, read and follow all safety instructions before use.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 - Ground or bond container and receiving equipment and take action to prevent static discharge.
 - Use explosion-proof electrical/ventilation/ lighting/other equipment and non-sparking tools.
 - Wear protective gloves, protective clothing, and eye and face protection.
 - Do not breathe dust/fume/gas/mist/vapours or spray.
 - Wash hands and face thoroughly after handling. Do not touch eyes.
 - Take off contaminated clothing and wash it before reuse.
 - Do not eat, drink or smoke when using this product.
 - Avoid release to the environment.
 - If exposed or concerned, get medical advice.
 - Get medical help if you feel unwell.
 - Do NOT induce vomiting.
 - IF SWALLOWED: Get emergency medical help immediately.
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water under safety shower.
 - If skin irritation occurs, get medical help.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - In case of fire, use dry sand, dry chemical or alcohol-resistant foam to extinguish.
 - Store locked up in a well-ventilated place and keep cool.
 - Collect spillage.
 - Dispose of contents/container in accordance with national regulation.
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- Avoid contamination of foodstuffs, feed, eating utensils and drinking water.
 - Prevent spray drift onto adjacent crops, grazing, rivers, dams and any area not under treatment.
 - Do not contaminate any water source when cleaning spray equipment nor when disposing of any waste product. After use, immediately rinse all spraying systems with clean water.
 - Empty product containers should be rinsed three times with a volume of water equal to a minimum of 10% of the container. Add the rinsings to the spray tank before destroying the container by perforation and flattening. Do not use the container for any other use.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Oxyfluorfen	10 – 30%	42874-03-3
Xylene	>60%	1330-20-7
N-Methyl-2-pyrrolidone	< 10%	872-50-4
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	< 10%	68953-96-8
Isobutanol	< 10%	78-83-1

FIRST AID

In case of accident or unwellness, seek medical advice immediately. Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.

Take the container label or product name with you when seeking medical attention.

Eye contact: Call a physician immediately. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention if symptoms occur.

Skin contact: Remove all contaminated clothing and shoes. Rinse the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Consult a physician if necessary.

Inhalation: Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician.

Ingestion: Call a poison control center or medical practitioner immediately for treatment advice. If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Get medical attention immediately if symptoms occur.

TOXICOLOGICAL INFORMATION

Antidotes

None known. Treat symptomatically.

Symptoms of human poisoning

None known.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

For resistance management **GALIGAN® 240 EC** is a group code E herbicide. Any weed population may contain individuals naturally resistant to **GALIGAN® 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 might not be controlled by **GALIGAN® 240 EC** or other group code E herbicides.

To delay the development of herbicide resistance the following should be done:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide codes.
- For tank mixing or alternation with products in another fungicide group code, refer to applicable individual product labels.
- Integrate control methods (chemical, cultural and biological) into weed control programmes.
- For specific information contact the local distributor agent or the registration holder.

MODE OF ACTION

E: Inhibition of protoporphyrinogen oxidase.

DIRECTIONS FOR USE

Use only as indicated.

- Use recommendations of **GALIGAN® 240 EC** are crop specific and should be followed closely.
- Use clean water for spraying.
- When mixing and spraying, the spray mix must be agitated continuously.
- Apply **GALIGAN® 240 EC** with a tractor mounted spray boom or knapsack sprayer with flat fan nozzles calibrated to spray the recommended spray volume at a pressure of 100–200 kPa.
- Apply **GALIGAN® 240 EC** to a clean soil surface free from any organic material or crop residues which will adversely affect the weed control.
- **GALIGAN® 240 EC** is not recommended for use in reduced tillage systems where there is an organic mulch on the soil surface.
- Do not disturb the soil surface after **GALIGAN® 240 EC** has been applied as any soil disturbance will reduce the weed control efficacy.
- For optimum weed control, **GALIGAN® 240 EC** should be applied to moist soil which remains moist for as long as possible without drying out.

- Under irrigation, weed control will be variable depending on the type of irrigation and placement of water.
- Do not mix **GALIGAN® 240 EC** with any other herbicide or pesticide unless specifically recommended below.
- **GALIGAN® 240 EC** has a residual soil action. After harvesting the **GALIGAN® 240 EC** treated crop, a thorough ploughing and disking is recommended and a waiting period of at least two months for each liter of product sprayed per ha is recommended before a following annual crop is planted.
- Direct seeded crops into soil that has been treated within 18 months with **GALIGAN® 240 EC** should not be treated with any acetamide herbicides.

GALIGAN® 240 EC USE IN ANNUAL CROPS

CROP	REMARKS
Onions	Do not use GALIGAN® 240 EC on the cultivar Texas Grano in the winter-rainfall region. The use of GALIGAN® 240 EC may cause a temporary slight scorching and/or pig-tailing of leaves followed by recovery.
Transplanted onions	Apply 3 L GALIGAN® 240 EC in 350 L water/ha when plants have reached the 2- to 3-true-leaf growth stage. Apply directly after transplanting followed by irrigation. Weak plants may be negatively infected by application of GALIGAN® 240 EC .
Hybrid onion seed production	Apply 3 L GALIGAN® 240 EC in 350 L water/ha immediately after planting the female bulbs.
Direct seeded onions – Karoo region	Apply 3 L GALIGAN® 240 EC in 350 L water/ha to Golden Globe and Australian Brown cultivars in the 3- to 4-leaf growth-stage only (at 2–3 months after sowing). Application may be delayed up to a month if weed development is slow.
Direct seeded onions – Summer rainfall regions	Apply 1–1.5 L GALIGAN® 240 EC in 350 L water/ha when the seedlings have developed two fully expanded leaves. Weeds should be sprayed before the 3-leaf growth stage and larger weeds or those suffering from frost or moisture or other climatic stress may not be controlled. If necessary, a repeat 1.5 L GALIGAN® 240 EC /ha treatment at 4–6 weeks can be applied. The lower dosage rate should be used on sensitive cultivars.
Garlic	Apply 3 L GALIGAN® 240 EC in 350 L water/ha immediately after planting. Leaf scorch and/or pig-tailing may occur, especially under cold, wet and windless conditions. High soil temperatures may delay emergence and cause leaf scorch.

CROP	REMARKS
Brassica crops	<p>Apply 2–3 L GALIGAN® 240 EC as an overall broadcast treatment before transplanting seedlings 7–10 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 of weed control is required. The soil surface should be free of clods and organic material. Do not apply GALIGAN® 240 EC after transplanting 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.</p> <p>Use GALIGAN® 240 EC on the following cultivars:</p> <p>Cauliflower: Couchamp, Igloo, Snowcap, Snowcrown, Snow February, Snowking.</p> <p>Cabbage: Bonanza, Cape Spitz, Drum Head, Gloria Osená, Glory of Enkhuizen, Green.</p> <p>Coronette, Hercules, NS Cross, Rodelle, Rolan, Shamrock.</p> <p>Brussels sprouts: Jade Cross, Long Island.</p> <p>Broccoli: Green Sprouting Calabrese, Late Corona. Late or unseasonal plantings (later than early August) should not be treated with GALIGAN® 240 EC.</p>
Sugarcane	<p>Apply 3 L GALIGAN® 240 EC in 350 L water/ha immediately after planting or 1 week after cutting, before weed emergence. Irrigate within 48 hours of the application or apply to recently-irrigated damp soil.</p>

GALIGAN® 240 EC USE IN PERENNIAL CROPS

Prevent **GALIGAN® 240 EC** coming into contact with the leaves of tree and vine crops as this will result in localized injury. Cool, damp and windless conditions may result in **GALIGAN® 240 EC** vapor causing scorching of lower leaves, especially in young trees, however, this is localized and will not result in further damage. Sensitive crops planted in the inter-row or adjacent to these crops may exhibit injury symptoms due to the vapor action of **GALIGAN® 240 EC**. Any existing weeds should be hand weeded or treated with a suitable foliar applied herbicide before applying **GALIGAN® 240 EC** to the bare soil surface.

CROP	REMARKS
Citrus	<p>Apply 3–4 L GALIGAN® 240 EC in 500 L water per ha to citrus trees of all ages, including nurseries. Do not apply in bearing orchards from 3 weeks before blossoming to 3 weeks after fruit set. Do not apply during periods of new foliar growth and apply only when the foliage has expanded fully and is matured. Apply as a directed spray away from the foliage in nurseries after transplanting. Use the lower rate for broadleaf weed control.</p>

CROP	REMARKS
Pome and stone fruit	<p>Apply 3–4 L GALIGAN® 240 EC in 500 L water/ha as a directed spray away from the crop foliage in pome and stone fruit orchards as well as in apple and pear nurseries. Use the lower rate for broadleaf weed control only. When applying in apple and pear nurseries, spray immediately after grafting and planting or to actively growing nursery stock over 60cm high.</p> <p>Do not apply GALIGAN® 240 EC in deciduous fruit orchards from one month before budswell until beginning of December.</p>
Grapevines	Apply 3–4 L GALIGAN® 240 EC in 500 L water per ha in established trellised vines during July only and not later than one month before budding.

GALIGAN® 240 EC USE IN FORESTRY

CROP	REMARKS
Pines	Apply 3 L GALIGAN® 240 EC in 400L water/ha for pre-emergence weed control in seed beds, containers and transplants of <i>Pinus elliotti</i> , <i>P. patula</i> and <i>P. taeda</i> .
Pre-emergence of pines	Apply immediately after sowing.
Pine seedlings and transplants	Apply to seedlings older than 10 weeks and apply before bud break or after foliage has hardened. Use only on soil as a growing medium.
Eucalyptus	<p>Apply 3 L GALIGAN® 240 EC in 400 L water/ha. Spray contact with seedling foliage will result in temporary scorching, which will recover. However, seedlings should be healthy and free from disease. Those infected with <i>Botrytis</i> may be severely scorched and can die.</p> <p>Pre-plant application: Apply to the soil surface of the planting area immediately before transplanting.</p> <p>Post-plant application: Apply within 4 days of transplanting <i>Eucalyptus grandis</i>, <i>E. macarthurii</i> and <i>E. nitens</i>, and before weed emergence.</p>
Wattle	<p>Pre-plant application: Apply 3 L GALIGAN® 240 EC in 400 L water/ha for pre-emergence weed control in transplants for <i>Panicum schinzii</i>, <i>Paspalum dilatatum</i> and <i>Digitaria sanguinalis</i>. Apply to the soil surface of the planting area 3 days before transplanting.</p> <p>Post-plant application: Apply 3 L GALIGAN® 240 EC in 400 L water/ha for pre-emergence weed control for <i>Panicum schinzii</i>, <i>Paspalum dilatatum</i> and <i>Digitaria sanguinalis</i> in transplants. Apply 10–21 days after transplanting before weed emergence. Cover or shield wattle seedlings prior to “over the top” application. Ensure that seedlings are protected and do not come into contact with the GALIGAN® 240 EC spray.</p>



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WEEDS CONTROLLED BY GALIGAN® 240 EC

ANNUAL BROADLEAF WEEDS

BOTANICAL NAME	COMMON NAME
<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>Datura ferox</i>	large 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 lanceolate</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>	corn spurrey



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BOTANICAL NAME	COMMON NAME
<i>Stellaria media</i>	chickweed
<i>Tagetes minuta</i>	khaki weed

ANNUAL GRASS WEEDS

BOTANICAL NAME	COMMON NAME
<i>Avena fatua</i>	common wild oats
<i>Digitaria sanguinalis</i>	crab fingergrass
<i>Echinochloa crus-galli</i>	barnyard grass
<i>Eleusine indica</i>	goose grass
<i>Lolium multiflorum</i>	Italian ryegrass
<i>Panicum schinzii</i>	sweet buffalo grass
<i>Paspalum dilatatum</i>	common Paspalum
<i>Poa annua</i>	winter grass

WEEDS CONTROLLED BY GALIGAN® 240 EC AFTER EMERGENCE

(1–1.5 L/ha)

BOTANICAL NAME	COMMON NAME
<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