

WARNINGS:

- **Withholding period:** Time between the last application and harvest (or grazing) of the crops:

Pineapples	7 days	Dry beans60 days
Lucerne and sugarcane	14 days	All other crops	40 days
Medic- and clover pastures	32 days		
- Handle with care.
- Harmful if swallowed, inhaled or when absorbed through the skin.
- May irritate the eyes and skin.
- Toxic to fish.
- Store unused **ORCA 125 EC** tightly closed in its container in a cool, well-ventilated place away from direct sunlight and away from other agrochemicals, food, feed and feedstuffs.
- Do not contaminate water bodies, dams and rivers.
- **Flammable** – Do not store or handle near an open flame or naked lights.
- Keep behind lock and key and out of reach of children, animals and uninformed persons.
- **Re-entry interval:** Do not enter the treated area within one day after application, unless wearing the protective clothing as recommended for applying the prepared spray mixture (see **PRECAUTIONS**).
- **Aerial application:** Notify all inhabitants of the immediate area to be sprayed an issue the necessary warnings. Do not spray over or allow spray drift to contaminate water bodies or adjacent (non-target) areas.
- Should the recommended dosage rate or crop stage be exceeded, damage to the crop may occur.
- **In the event of accidental or suspected poisoning, take the patient to a doctor immediately and show the doctor this label.**

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant 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 pathogen 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:

- Do not inhale fumes or spray mist.
- Wear protective clothing (face shield and rubber gloves) when handling the concentrate, preparing the spray mixture and during application. Wash protective clothing daily.
- Avoid contact of the remedy with the skin and eyes.
- Wash with soap and water after handling and application or after accidental contact of the remedy with the skin.
- In the event of contact with the eyes, rinse the eyes with clean running water for at least 15 minutes.
- Do not eat, drink or smoke whilst mixing or applying the remedy, but wash hands and face thoroughly before doing so.
- Prevent contamination of feed, food, eating utensils and drinking water.
- Prevent spray drift onto other crops, grazing, water bodies and areas not to be treated.
- Clean all measuring utensils and application equipment thoroughly after use and before using it to apply any other remedy. Dispose of such wash-water responsibly to prevent contamination of the environment and water sources.
- Rinsing of the immediate container: Invert the empty container over the spray tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the empty container three times with a volume of water equal to at least 10 % of that of the container. Add this rinsing water to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the rinsed empty container by perforating and flattening it. Bury the container at least 50 cm deep in the ground and at least 100 m away from a borehole or water source.
- Never use or re-use an empty container for any other purpose.

SYMPTOMS OF HUMAN POISONING:

Symptoms may include nausea and vomiting may occur with associated abdominal pain and diarrhea. Severe poisoning may result in death due to respiratory failure.

FIRST AID TREATMENT:

- Remove the patient from the source of contamination to a well-ventilated area. Keep the patient calm and assured.
- Remove contaminated clothing and rinse contaminated body areas with soap and water. Do not rub the skin.
- Rinse contaminated eyes with clean running water for at least 15 minutes.



FARM-AG

ORCA 125 EC

Reg No/Nr: L 9560: Act/Wet 36 of/van 1947



A selective, systemic emulsifiable concentrate herbicide that is applied as a post-emergent spray for the control of annual and perennial grasses in crops as indicated; for the chemical ripening and eradication of sugarcane and also for the suppression of seeding and grass growth on verges.

'n Selektiewe, sistemiese emulgeerbare konsentraat onkruidodder wat na-opkoms toegedien word vir die beheer van een- en meerjarige grasse in gewasse soos aangedui; vir die chemiese rypwording en uitroeiing van suikerriet asook vir die onderdrukking van saadontwikkeling en grasse op sypaadjies.

HRAC: HERBICIDE GROUP CODE	A1	HRAC: ONKRUIDDODER GROEPKODE
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ACTIVE INGREDIENT /AKTIEWE BESTANDDEEL:

Fluazifop-p-butyl (aryloxyphenoxypropionate) 125 g/ℓ Fluazifop-p-butyl (aryloxyphenoxypropionate)

Manufacture Date:
Vervaardigingsdatum

Batch No.:
Lotnommer

NET MASS/ NETTO MASSA

**SEE ENCLOSED LEAFLET FOR FULL PARTICULARS
SIEN INGESLOTE VOUBILJET VIR VOLLE BESONDERHEDE**

Registration holder/Registrasiehouer:

CEDAR FALLS PROPERTIES (Pty) Ltd

Co. Reg. No./Mpy. Reg. No. 2006/031383/07

22 Burnside Drive, Old Mill Industrial Park, Mount Edgecombe, South Africa, 4000. Tel: 031 538 8700

UN No.: 3082



**HARMFUL
SKADELIK**



- If the product was ingested **do not** induce vomiting unless an approximately lethal dose or more has been ingested. A lethal dose is approximately 400 mL.
- Never give anything by mouth to an unconscious person.
- Take the patient immediately to the nearest physician and show him this label.

NOTE TO PHYSICIAN: No specific antidote is known. Treat symptomatically.

RESISTANCE WARNING: For resistance management, **ORCA 125 EC** is an A1 herbicide according to the HRAC group coding. Any weed population may contain individuals naturally resistant to **ORCA 125 EC** and other group code A1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. Once resistant, weeds may not be controlled by **ORCA 125 EC** or any other group code A1 herbicide.

In order to delay herbicide resistance:

- Avoid the exclusive and repeated use of products with the A1 herbicide group coding.
- Alternate or tank mix with products from other herbicide group codes.
- Integrate chemical and other control methods into weed control programmes.

Consult the supplier or registration holder for more information on resistance management.

USE RESTRICTIONS: Do not apply **ORCA 125 EC** to sugarcane intended for use as seed cane.

GENERAL PROPERTIES:

- **ORCA 125 EC** is a selective post-emergent grass herbicide and can be applied to crops and weeds at any stage of development. Only commence application when the majority of grass weeds have germinated. **ORCA 125 EC** causes immediate cessation of cell division in the plant therefore stopping the plant from growing. The effect of the application might only be visible 3 weeks after application. Rain or irrigation within one hour after application may reduce efficacy and a second application might therefore be necessary.

DIRECTIONS FOR USE: Use only as prescribed.

It is a violation of Government Notices R.1716 of 26 July 1991 and R.181 of 7 February 2003 issued in terms of the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No 36 of 1947), to use this product in a manner inconsistent with its labeling or to decant it into another container.

FOLLOW-UP CROPS:

- The treated soil may not be planted with maize, sorghum, wheat or any other grass crop for a period of 3 months after application:

COMPATIBILITY:

- **ORCA 125 EC** is not compatible with any product containing Dimethoate.
- **ORCA 125 EC** can be mixed with DIURON 800 SC for the control of broadleaf weeds in the case of Pineapples, Mangoes, Citrus, Coffee, Macadamia nuts and Pecan nuts.
(Refer to the Diuron 800 SC product label for details).
- **ORCA 125 EC** is not compatible with most other herbicides since the activity of the product may be adversely affected. If two herbicides have to be applied, ensure that they are applied separately with a 14-day interval between applications.

CLIMATIC CONDITIONS: For the best results apply **ORCA 125 EC** during warm and humid conditions. Periods of drought may result in poor or no weed control.

CROP SUSCEPTIBILITY:

- The presence of Leaf spot (*Pseudomonas*) in green bean cultivars is aggravated when **ORCA 125 EC** is applied, especially if such cultivars are planted early (September – October).
- Slenderette, TopCrop, Wintergreen and Harvester cultivars are especially prone to Leaf spot (*Pseudomonas*) when planted early in the summer.
- Necrosis occurs on the dry bean cultivars; Brown Harricot and Speckled sugar beans after **ORCA 125 EC** is applied.

SUGARCANE RIPENING:

- **ORCA 125 EC** will stunt or kill young, uncurled leaves. It may also kill the growing point. Lateral buds then develop from a few top nodes. Stalk growth is restricted and the undeveloped tops of some of the stalks may eventually break off. This will not result in a reduction of sucrose yield (when compared with untreated commercially harvested cane) as long as the recommended period between spraying and harvesting is not exceeded.
- The higher recommended rates of **ORCA 125 EC** will exaggerate the severity of the ripening symptoms.
- The **ORCA 125 EC** applications thin out the crop canopy. This will result in a better crop burn.
- All varieties of sugarcane respond to **ORCA 125 EC**.

SUGARCANE ERADICATION:

- Apply **ORCA 125 EC** to actively growing sugarcane when the cane is at least 450 mm tall and fully or almost fully tillered.
- Apply **ORCA 125 EC** in 200 – 300 ℓ water/ha. Ensure that all adequate coverage of all green foliage.
- Do not add any wetting agent or other chemicals to the spray mixture.
- On soils with clay content of 8 % or more, the soil or plants should not be disturbed within 28 days of application. Only NCO plantings are recommended.
- On soils with a clay content less than 8 %, the soil or plants should not be disturbed within 56 days of application. Only NCO plantings are recommended.
- Remove any cane regrowth mechanically.
- Broadleaf weeds present after planting can be controlled with a paraquat application.

GRASS SUPPRESSION: Different types of grasses react differently to a specific rate of **ORCA 125 EC** it is therefore necessary to experiment with the rate within the recommended limits. Higher rates may cause temporary browning, whereas the lower rates may shorten the period of suppression. When **ORCA 125 EC** is applied repeatedly, broadleaf weeds may multiply because of the reduced grass competition. Depending on the rate and climatic conditions, a **ORCA 125 EC** application can eliminate at least three to four mowings.

METHOD OF APPLICATION: **ORCA 125 EC** can be applied by means of ground rig, knapsack sprayer for spot treatment or by aircraft. All application equipment must be correctly calibrated.

The use of clean water is essential.

Apply the prepared spray mixture at a constant speed and pressure of 100 – 300 kPa.

Do not apply **ORCA 125 EC** if rain is expected one hour before application, as this may reduce efficacy.

Add a wetter when the concentration of **ORCA 125 EC** is below 1 ℓ/200 ℓ water at a rate of 100 mℓ/100 ℓ water (0.1 %) is recommended.

AERIAL APPLICATION: Do not commence or arrange for aerial application before consulting your ORCA 125 EC representative.

Aerial application of **ORCA 125 EC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS Code 0118 (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 ℓ – 35 ℓ 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 cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 300 to 350 microns is recommended. Limit the production of fine droplets less than 150 microns (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/h.
- 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.

DOSEAGE RATES:

TABLE : Grass herbicide:

CROP	DOSEAGE	REMARKS
BANANA; CITRUS *; DECIDUOUS FRUIT; DRY BEANS; GRAPE VINES; GROUNDNUTS; LUCERNE; PEAS; PINEAPPLES *; POTATOES (V/D PLANK); SOYBEANS	2 – 4 ℓ/ha depending on grass species and growth stage. Refer Table 4 below	Apply early-post emergent to seedlings up to the 6-leaf stage. ORCA 125 EC can be applied aerially to annual grasses as indicated.

CROP	DOSAGE	REMARKS
GREEN BEANS *; MEDIC AND CLOVER PASTURES; ONIONS (SEEDBED AND TRANSPLANTED); ORNAMENTALS AND FLOWERS	1 – 2 ℓ/ha depending on grass species and growth stage. Refer Table 4 below	Apply early-post emergent to seedlings up to the 6-leaf stage. ORCA 125 EC can be applied aerially to annual grasses as indicated.
SPOT TREATMENT IN THE ABOVE-MENTIONED CROPS	2 % ORCA 125 EC mixture + adjuvant with penetrating and wetting agent at 100 mℓ/100 ℓ water	Apply by means of a knapsack sprayer early in summer on actively growing plants. This treatment will control grasses as listed and will suppress common couch (<i>Cynodon dactylon</i>) and couch paspalum (<i>Paspalum paspalodes</i>). Refer to Table 4 below.
GRASS CONTROL ON PATIOS, PATHS, DRIVEWAYS ETC.	100 mℓ/5 ℓ water	Spot treatment application on actively growing plants.

* See “**Compatibility**” above for the control of broadleaf weeds.

TABLE 2: Sugarcane (Ripener and eradication)

CROP	DOSAGE	REMARKS
Sugarcane Ripener • Ground application: All varieties excluding N14 Variety N14	300 mℓ/ha 400 mℓ/ha	Apply by means of a knapsack sprayer fitted with an overhead boom in 50 – 200 ℓ water. Refer notes below.
• Aerial application: All varieties excluding N14 Variety N14	330 mℓ/ha 440 mℓ/ha	Apply in 30 – 35 ℓ water/ha. Refer notes below.
Sugarcane Eradication Ground application: (For conservation tillage) Variety NCO 376 plantings	6 ℓ/ha	Ground application only. Refer notes below.

NOTES:

- Apply **ORCA 125 EC** approximately 4 – 10 weeks before harvest.
- Do not apply during June – September.
- When crop growth is rapid (in warm humid conditions), the time between spraying and harvesting will be shorter.
- The time between spraying and harvesting will be longer during cool periods.
- In cool conditions growth is slower therefore time between spraying and harvesting will be longer.
- Crops must be actively growing when **ORCA 125 EC** is applied.
- Do not apply when crop is suffering from nutrient deficiency, drought/water logging or any other stress conditions (e.g., disease, insect damage).

TABLE 3: As growth inhibitor

CROP	DOSAGE	REMARKS
VERGES, ROADSIDES, ORCHARDS AND WATERWAYS	500 – 750 mℓ/ha	<ul style="list-style-type: none"> • Slash grass to the preferred length. • Apply in 250 – 300 ℓ water/ha. • Ensure sufficient leaf surface for good foliar uptake. • Repeat when necessary.

TABLE 4: List of weed species

APPLICATION RATES	GRASS GROWTH STAGE AT APPLICATION	BOTANICAL NAME	COMMON NAME
1 ℓ/ha	Seedlings to 6-leaf stage	<i>Avena fatua</i> <i>Lolium multiflorum</i> <i>Phalaris canariensis</i> <i>Triticum aestivum</i>	common wild oats Italian ryegrass canary seed grass volunteer wheat
2 ℓ/ha	Seedlings to 6-leaf stage	<i>Bromus unioloides</i> <i>Chloris virgata</i> <i>Echinochloa colona</i> <i>Echinochloa crus-galli</i> <i>Eragrostis curvula</i> <i>Eragrostis pilosa</i> <i>Eragrostis plana</i> <i>Hordeum murinum</i> <i>Panicum maximum</i> <i>Paspalum urvillei</i> <i>Rhynchelytrum repens</i> <i>Setaria pallide-fusca</i> <i>Zea mays</i>	rescue grass feathertop chloris awnless barnyard grass barnyard grass weeping love grass slender meadow grass fan love grass wild barley common buffalo grass tall paspalum natal redtop red bristle grass mealie
3 ℓ/ha	Seedlings to 6-leaf stage	<i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Eragrostis aspera</i> <i>Paspalum dilatatum</i> <i>Urochloa panicoides</i>	crab finger-grass goose grass rough love grass common paspalum herringbone grass
4 ℓ/ha	–	<i>Brachiaria eruciformis</i> <i>Cynodon dactylon</i> <i>Paspalum paspalodes</i> <i>Sporobolus africanus</i>	sweet signal grass common couch couch paspalum ratstailgrass

Note: Broken rhizomes only. Re-growth may occur on well-established Common couch (*Cynodon dactylon*) and Couch paspalum (*Paspalum paspalodes*).

WAARSKUWINGS:

- **Onthoudingsperiode.** Tydperk tussen laaste toediening en oes (of beweiding) van gewasse:

Pynappels	7 dae	Droëbone	60 dae
Lusern en suikerriet	14 dae	Alle ander gewasse	40 dae
Medics en klawers	32 dae		
- Hanteer versigtig.
- Skadelik indien ingesluk, ingeasem of deur die vel opgeneem.
- Mag die oë en vel irriteer.
- Skadelik vir visse.
- Berg ongebruikte **ORCA 125 EC** dig toegemaak in hierdie houër in 'n koel, goed geventileerde plek weg van ander landboumiddels, voedsel, voer en voedingstowwe.
- Moet nie waterbronne, damme en riviere besoedel nie.
- **VLAMBAAR.** Moet nie oberg of hanteer naby vlamme of 'n onbeskermd lig nie.
- Bêre agter slot en grendel en buite bereik van kinders, diere en oningeligte persone.
- Herbetreding. Moet nie die behandelde gebied betree binne 1 dag na toediening nie, tensy beskermende oorklere gedra word soos aanbeveel is vir die toediening van die spuitmengsel (sien **VOORSORGMATREËLS**).
- **Lugtoediening.** Stel alle persone in die onmiddellike omgewing van die gebied wat behandel gaan word in kennis daarvan en reik die nodige waarskuwings uit. Moet nie oor watermassas of nie-teikengebiede spuit nie, of toelaat dat spuitnewel daarheen oorwaai nie.
- Indien die aanbevole dosis of groeistadium van die gewas oorskry word, mag dit gewasskade tot gevolg hê.
- **Indien toevallige of vermoedelike vergiftiging sou voorkom, neem die pasiënt dadelik na 'n geneesheer en toon hierdie etiket aan hom/haar.**

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond, klimaat- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie, en die voorkoms van weerstand van die onkruid teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan die omgewing of nadelige effek op mens of dier of vir 'n gebrek aan prestasie as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer of registrasiehouer in geval van enige onsekerheid.

VOORSORGMATREËLS:

- Moet nie dampe of spuitnewel inasem nie.
- Dra beskermende oorklere (gesigskerm en rubberhandskoene) wanneer die konsentraat gehanteer en die spuitmengsel voorberei word, asook terwyl die produk toegedien word. Was besoedeelde klere daaglik.
- Voorkom dat die middel in aanraking kom met die vel en oë.
- Was met seep en water na gebruik en toediening of na toevallige kontak met die vel.
- Indien die oë besmet word, moet die oë met skoon, lopende water gespoel word vir minstens 15 minute.
- Moet nie eet, drink of rook terwyl die spuitmengsel aangemaak of toegedien word nie voordat die hande en gesig nie eers gewas is nie.
- Voorkom dat spuitnewel oorwaai na ander gewasse, weidings, watermassas en gebiede wat nie behandel moet word nie.
- Alle meet- en toedieningsapparaat moet deeglik skoongemaak word na gebruik en voordat dit gebruik word vir die toedien van 'n ander middel. Raak van die waswater ontslae op 'n verantwoordelike wyse sodat die omgewing en waterbronne nie besoedel word nie.
- Keer die leë houër om oor die spuittenk en laat dit toe om vir minstens 30 sekondes leeg te loop nadat die vloeitot 'n drup verminder het. Spoel die leë houër dan driemaal uit met 'n volume water gelyk aan minstens 10 % van die van dié houër. Gooi hierdie spoelwater by die inhoud van die spuittenk.
- Vernietig die uitgespoelde leë houër deur gate daarin te maak en dit plat te slaan. Begrawe die houër ten minste 50 cm diep in die grond en minstens 100 m weg van 'n boorgat of waterbron.
- Moet nooit die leë houër vir enige ander doel gebruik of hergebruik nie.
- Voorkom die besoedeling van voer, voedsel, eetgerei en drinkwater.

SIMPOTOME VAN MENSLIKE VERGIFTIGING: Simptome kan insluit mislikheid en naarheid. Braking mag voorkom, gepaard met maagkrampe en/of diarree. In die geval van ernstige vergiftiging kan die dood intree as gevolg van asemhalings- gebrek.

EERSTEHULP:

- Verwyder die pasiënt van die bron van blootstelling na 'n goed geventileerde plek. Stel pasiënt gerus en kalmeer hom/haar.
- Verwyder besmette klere en was besoedeelde dele van die liggaam met seep en water. Moet nie die vel hard vryf nie.
- Was besoedeelde oë met lopende water vir minstens 15 minute lank.
- Indien produkingesluk is, **moet nie** braking induseer nie tensy 'n beraamde lewensgevaarlike dosis of meer ingeneem is. 'n Lewensgevaarlike dosis is ongeveer 400 ml.
- Moet nie enige iets per mond toedien aan 'n persoon wat bewusteloos is nie.
- Neem die pasiënt onmiddellik na die naaste geneesheer en toon hierdie etiket aan hom/haar.

NOTA AAN GENEESHEER: Geen spesifieke teenmiddel is bekend nie. Behandel simptome.

WEERSTANDSWAARSKUWING: Vir doeleindes van weerstandbestuur, is **ORCA 125 EC** 'n HRAC groepkode A1 onkruidodder. Enige onkruidbevolking kan sommige onkruides bevat wat natuurlik weerstandbiedend is teen **ORCA 125 EC** en ander groepkode A1 onkruidodders. Indien hierdie groepkode onkruidodders herhaaldelik toegedien word, kan die weerstandbiedende individue uiteindelik die bevolking oorheers. Hierdie weerstandbiedende onkruides sal waarskynlik nie deur **ORCA 125 EC** of enige ander groepkode A1 onkruidodder beheer word nie.

Ten einde weerstand teen onkruidodders te vertraag:

- Verminder die uitsluitlike en herhaaldelike gebruik van onkruidodders behorende tot dieselfde groepkode.
- Wissel af met, of gebruik tenkemmings van middels van verskillende onkruidodder groepkodes.

Integreer chemiese middels en verbouingspraktyke in onkruidbeheerprogramme.

Vir meer inligting oor weerstandbestuur, kontak gerus u naaste verspreider.

GEBRUIKSBEPERKINGS: Moet nie **ORCA 125 EC** op suikerriet wat as saadriet gebruik gaan word, toedien nie.

ALGEMENE EIENSKAPPE: **ORCA 125 EC** is 'n selektiewe, na-opkoms grasonkruidodder en kan toegedien word op gewasse en onkruid gedurende enige stadium van ontwikkeling. Begin met toediening wanneer die meeste grasonkruides reeds ontkiem het. **ORCA 125 EC** veroorsaak onmiddellike staking van seldeling binne die plant, wat dus die plant verhoed om verder te groei. Die effek van die behandeling mag egter eers 3 weke na toediening sigbaar wees. Reën of besproeiing binne 1 uur na toediening mag swak onkruidbeheer tot gevolg hê, dus mag 'n tweede opvolgtoediening nodig wees.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.

Dit is 'n oortreding van Goewermentskennisgewings R.1716 van 26 Julie 1991 en R.181 van 7 Februarie 2003 uitgereik kragtens die Wet op Misstawe, Veevoedsel, Landboumiddels en Veemiddels, 1947 (Wet Nr. 36 van 1947), om hierdie middel te gebruik op 'n wyse wat strydig is met die etikettering daarvan, of om dit oor te gooi in enige ander houer.

OPVOLGGEWASSE: Behandelde grond mag nie met mielies, sorghum, koring of enige ander grasgewasse beplant word nie vir 'n periode van ten minste 3 maande na toediening.

VERENIGBAARHEID:

- **ORCA 125 EC** is nie verenigbaar met enige produk wat dimetooat bevat nie.
- **ORCA 125 EC** kan gemeng word met DIURON 800 SC vir die beheer van breëblaaronkruid in pynappels, mango's, sitrus, koffie, makedamiamen pekanneute. Sien die DIURON 800 SC etiket vir besonderhede.
- **ORCA 125 EC** is nie verenigbaar met die meeste ander onkruidodders nie aangesien die effektiwiteit van die produk nadelig beïnvloed kan word. Indien twee onkruidodders gebruik moet word, moet hulle apart toegedien word met 'n 14-dag interval tussen toedienings.

KLIMAATSTOESTANDE: 'n **ORCA 125 EC** toediening sal die beste resultate lewer indien die produk toegedien word gedurende warm en vogtige toestande. Periodes van droogte mag swak of geen onkruidbeheer tot gevolg hê.

GEWASGEVOELIGHEID:

- Die voorkoms van blaarvlek (*Pseudomonas*) in groenboontjie kultivars mag vererger word deur 'n **ORCA 125 EC** toediening, veral wanneer hierdie kultivars vroeg September tot Oktober aangeplant word.
- Slanderette, TopCrop, Wintergreen en Harvester kultivars is veral vatbaar vir blaarvlek (*Pseudomonas*) wanneer dit vroeg somer aangeplant word.
- Indien **ORCA 125 EC** op droëboon kultivars Brown Harricot en gespikkelde suikerboontjies toegedien word, sal nekrose voorkom.

SUIKERRIET RYPMAKING:

- **ORCA 125 EC** toedienings onderdruk groei of dood jong ongekrulde blare. Dit kan ook groeipunte doodmaak. Laterale knoppe ontwikkel dan vanuit 'n paar van die boonste stingelknoppe. Stingelgroei word beperk en die onderontwikkelde groeipunte van sommige van die stingels mag uiteindelik afbreek. Indien suikrose opbrengs van bogenoemde behandelde plante vergelyk word met dié van onbehandelde plante, sal daar geen verskil wees in suikrose opbrengs nie, mits die aanbevole periode tussen toediening en oes nie oorskry word nie.
- Die hoër **ORCA 125 EC** dosisse sal rypwording simptome vergroet.
- **ORCA 125 EC** toedienings dun die gewasadak uit, wat beter gewasbrand tot gevolg het.
- Alle suikerriet variëteite reageer op **ORCA 125 EC** behandelings.

SUIKERRIET UITROEIING:

- Dien **ORCA 125 EC** toe op aktief groeiende suikerriet wanneer die riet ongeveer 450 mm lank is en amper of ten volle uitgelopen het.
- Dien **ORCA 125 EC** toe in 200 – 300 ℓ water/ha. Verseker die deeglike benatting van alle groen loof.
- Moet nie enige benattigsmiddels of ander chemikalieë byvoeg nie.
- Indien **ORCA 125 EC** toegedien word op grond met 'n klei-inhoud van 8 % of meer, mag die grond of gewas nie versteur word binne 28 dae na toediening nie. Slegs NCO aanplantings word aanbeveel.
- Indien **ORCA 125 EC** toegedien word op grond met 'n klei-inhoud minder as 8 %, mag die grond of gewas nie versteur word binne 56 dae na toediening nie. Slegs NCO aanplantings word aanbeveel.
- Enige riet hergroei kan meganies verwyder word.
- Breëblaaronkruid na aanplanting kan met parakwat toedienings beheer word.

GRAS ONDERDRUKKING: Aangesien verskillende soorte gras verskillend reageer teenoor 'n spesifieke dosis van **ORCA 125 EC**, is dit noodsaaklik dat daar eers ge-eksperimenteer word met dosisse binne die aanbevole limiete. Hoër dosisse mag tydelike verbruining veroorsaak en laer dosisse mag weer onvoldoende onderdrukking tot gevolg hê. Indien **ORCA 125 EC** herhaaldelik toegedien word, kan breëblaaronkruid toeneem omdat kompetisie met grasse verminder word. Afhangende van die dosis en klimaatstoestand, kan een **ORCA 125 EC** toediening min of meer drie tot vier snye uitskakel.

TOEDIENINGSMETODE:

- **ORCA 125 EC** kan toegedien word d.m.v grondoerusting, rugsakspuit vir kol- behandeling of vir toediening deur 'n vliegtuig. Alle spuittoerusting moet korrek gekalibreer wees.
- Dit is uiters belangrik dat skoon water gebruik word.
- Dien die voorbereide spuitmengsel toe teen 'n konstante spoed en druk van 100 – 300 kPa.
- Moet nie **ORCA 125 EC** toedien indien reën binne 1 uur vanaf toediening verwag word nie, aangesien dit swak beheer tot gevolg mag hê.
- Die byvoeging van bymibdee en benatter teen 100 ml/100 ℓ water (0,1 %) is alleenlik nodig wanneer die konsentrasie van **ORCA 125 EC** laer is as 1 ℓ/200 ℓ water.

LUGTOEDIENING: Raadpleeg die ORCA 125 EC verteenwoordiger voordat begin word met lugtoediening, of voordat dit gereël word. ORCA 125 EC kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van Suid Afrikaanse Nasionale Standaard 10118: The Aerial Application of Agricultural Pesticides (voorheen: SABS Code of practice 0118) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teiken area versprei word, en die verlies van spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is dus belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuitmengsel volume van 30 tot 35 ℓ/ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effek indien hierdie produk teen 'n laer volume as hierbo aanbeveel, toegedien word nie.
- **Druppel bedekking:** 30 tot 40 druppels per cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 300 tot 350 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum. Voeg 'n geskikte teenverdampingsmiddel by indien die VMD van die druppels kleiner as 200 tot 250 mikrons is.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 m. Moet nie spuit wanneer die vliegtuig duik, klim of draai nie.
- Gebruik geskikte **atomiseringsapparaat** wat die vereiste druppelgrootte en bedekking sal produseer en die minste verlies van die produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binneste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die **vlerkpuntvorteks** beweeg.
- Die verskil in **temperatuur** tussen die nat- en droëboltermometer van 'n swaaihgrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die **windspoed** 15 km/uur oorskry.
- Stop bespuiting tydens **turbulente**, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur **inversie toestande** (deur bo of binne die inversie laag te spuit) en/of **hoë lugvogtoestand** (relatiewe humiditeit 80 % en meer) mag tot volgende probleme aanleiding gee:
 - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
 - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

TOEDIENINGSHOEVEELHEDE

TABEL 1: Grasonkruidodder

GEWAS	DOSIS	OPMERKINGS
PIESANGS; SITRUS *; SAGTEVRUGTE; DROËBONE ; WINGERDE; GRONDBONE; LUSERN; ERTJIES; PYNAPPELS; AARTAPPELS (V/D PLANK); SOJABONE	2 – 4 ℓ/ha afhangende van die grasspesie en groeistadium. Verwys na Tabel 4	Dien vroeg voor-opkoms toe vanaf saailing- tot en met die 6-blaar- stadium. ORCA 125 EC kan op eenjarige grasse soos aanbeveel d.m.v lugbespuiting toegedien word.
GRONDBONE ;MEDICS EN KLAWERS; UIE (SAADBED EN UITGEPLANT); SIERPLANTE EN BLOMMIE	1 – 2 ℓ/ha afhangende van die grasspesie en groeistadium. Verwys na Tabel 4	Dien vroeg vooropkoms toe vanaf saailing- tot en met die 6-blaar- stadium. ORCA 125 EC kan op eenjarige grasse soos aanbeveel d.m.v lugbespuiting toegedien word.
KOLBEHANDELING IN BOGENOEMDE GEWASSE	2 % ORCA 125 EC mengsel + 'n geregistreerde bymiddel teen 100 ml/100 ℓ water	Dien toe d.m.v rugsakspuit in die vroeg somer wanneer plante aktief groei. Hierdie behandeling sal grasse soos gelys beheer en sal ook kweekegras (<i>Cynodon dactylon</i>) en kweek-Paspalum (<i>Paspalum paspaloides</i>) onderdruk. Verwys na Tabel 4.
VIR DIE BEHEER VAN GRAS IN PATIO'S, PLAVEISEL, OPRITTE ENS	100 ml/5 ℓ water	Kolbehandeling toediening op aktief groeiende plante.

* Verwys na **Verenigbaarheid** hierbo vir die beheer van breëblaaronkruid.

TABEL 2. Suikerriet (rypmaking en uitroeiing)

GEWAS	DOSIS	OPMERKINGS
Suikerriet rypmaking • Grondtoediening: Alle variëteite behalwe N14 N14 variëteit	300 ml/ha 400 ml/ha	Dien toe d.m.v rugsakspuit toegerus met 'n oorhoofse spuitbalk in 50 – 200 ℓ water/ha. Verwys na notas hieronder.

GEWAS	DOSIS	OPMERKINGS
• Lugtoediening: Alle variëteite behalwe N14 N14 variëteit	330 mℓ/ha 440 mℓ/ha	Dien toe in 30 – 35 ℓ water/ha. Verwys na notas hieronder.
Suikerriet uitroeiing Bewaringsbewerking: NCO 376 variëteit	6 ℓ/ha	Grondtoediening alleen. Verwys na notas hieronder

Notas:

- Dien **ORCA 125 EC** ongeveer 4 – 10 weke voor oes toe.
- Moet nie **ORCA 125 EC** gedurende Junie – September toedien nie.
- In warm vogtige toestande wanneer gewasgroeï vinnig plaasvind, sal die tydskuur tussen toediening en oes korter wees.
- In koel toestande wanneer gewasgroeï stadig plaasvind, sal die tydskuur tussen toediening en oes langer wees.
- Gewas moet aktief groei wanneer **ORCA 125 EC** toegedien word.
- Moet nie die produk toedien nie op gewasse wat onder stremming verkeer a.g.v voedingstekort, droogte, versuiping of enige ander stress-toestande (bv. siektes en insekskade).

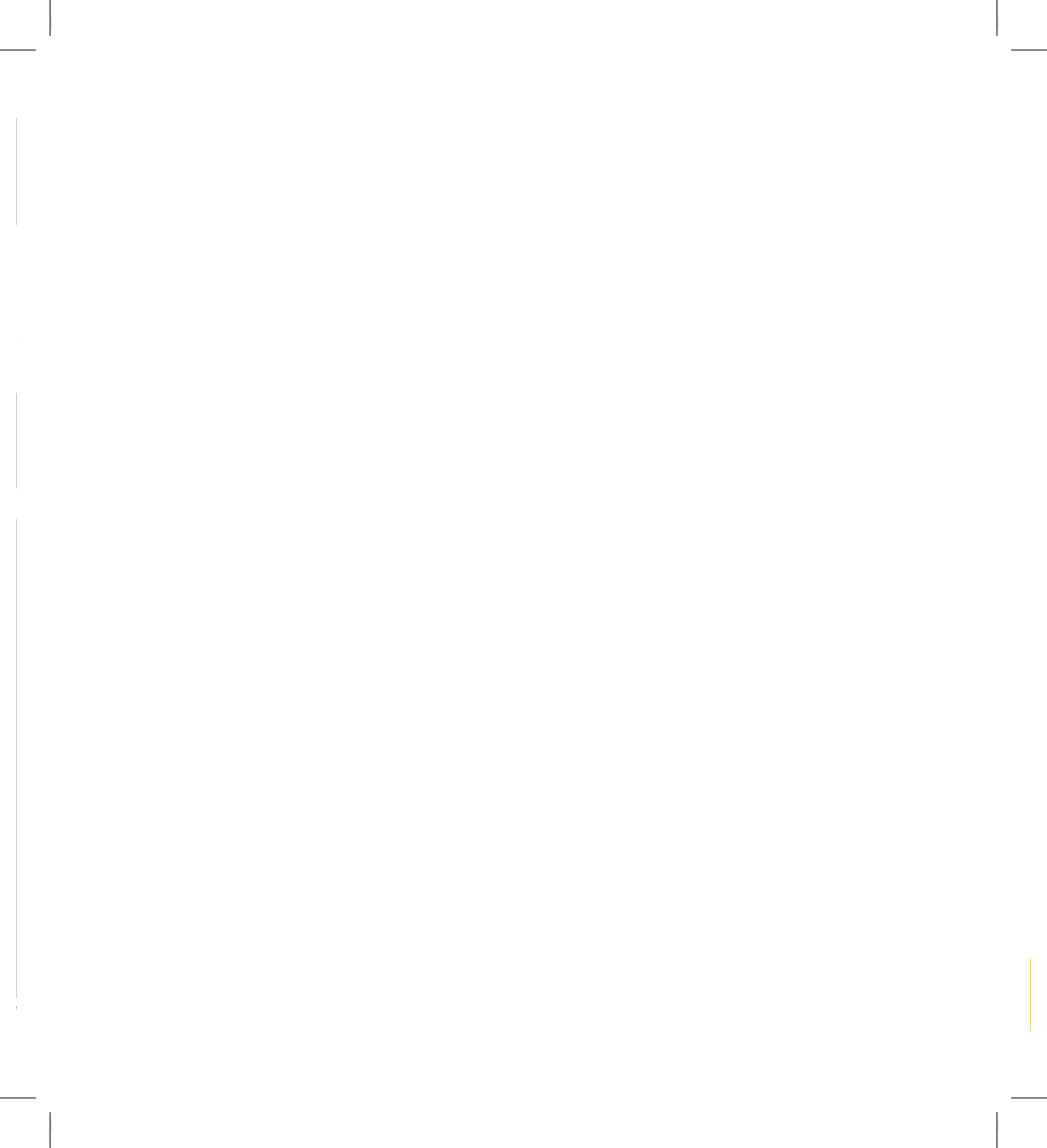
TABEL 3: Onderdrukking van groei

SITUASIE	DOSIS	OPMERKINGS
GRENSE, SYPAADJIES, BOORDE EN KANALE	500 – 750 mℓ/ha	<ul style="list-style-type: none"> • Sny gras af tot op lengte verkies. • Dien produk toe in 250 – 300 ℓ water/ha. • Verseker die deeglike benutting van die blaaroppervlak vir goeie opname. • Herhaal indien nodig

TABEL 4. Lys van onkruidspesies

TOEDIENINGS HOEVEELHEDE	GROEISTADIUM VAN GRAS TYDENS TOEDIENING	BOTANIESE NAAM	GEWONE NAAM
1 ℓ/ha	Saailinge tot en met die 6-blaar stadium	<i>Avena fatua</i> <i>Lolium multiflorum</i> <i>Phalaris canariensis</i> <i>Triticum aestivum</i>	gewone wildehawer Italiaanse raai gras kanariesaad gras opslagkoring
2 ℓ/ha	Saailinge tot en met die 6-blaar stadium	<i>Bromus unioloides</i> <i>Chloris virgata</i> <i>Echinochloa colona</i> <i>Echinochloa crus-galli</i> <i>Eragrostis curvula</i> <i>Eragrostis pilosa</i> <i>Eragrostis plana</i> <i>Hordeum murinum</i> <i>Panicum maximum</i> <i>Paspalum urvillei</i> <i>Rhynchelytrum repens</i> <i>Setaria pallide-fusca</i> <i>Zea mays</i>	reddings gras witpluimchloris moeras gras hanepootmanna ouland gras fynsaad gras taaipol wildegars gewone buffels gras langbeen-Paspalum Natale rooipluim rooiborselsaad gras mielie
3 ℓ/ha	Saailinge tot en met die 6-blaar stadium	<i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Eragrostis aspera</i> <i>Paspalum dilatatum</i> <i>Urochloa panicoides</i>	kruisvinger gras Jongos gras Grootpluimeragrostis gewone Paspalum bees gras
4 ℓ/ha	–	<i>Brachiaria eruciformis</i> <i>Cynodon dactylon</i> <i>Paspalum paspalodes</i> <i>Sporobolus africanus</i>	litjiessinjal gras kweek gras kweek-Paspalum rotstert

Note: Gebreke risome alleenlik. Hergroei mag plaasvind op goed gevestigde kweek gras (*Cynodon dactylon*) en kweek-Paspalum (*Paspalum paspalodes*).





FARM-AG

ORCA 125 EC

Reg No/Nr: L 9560: Act/Wet 36 of/van 1947

A selective, systemic emulsifiable concentrate herbicide that is applied as a post-emergent spray for the control of annual and perennial grasses in crops as indicated; for the chemical ripening and eradication of sugarcane and also for the suppression of seeding and grass growth on verges.

'n Selektiewe, sistemiese emulgeerbare konsentraat onkruidodder wat na-opkoms toegedien word vir die beheer van een- en meerjarige grasse in gewasse soos aangedui; vir die chemiese rypwording en uitroeiing van suikerriet asook vir die onderdrukking van saadontwikkeling en grasse op sypaadjies.

HRAC: HERBICIDE GROUP CODE	A1	HRAC: ONKRUIDDODER GROEPKODE
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ACTIVE INGREDIENT /AKTIEWE BESTANDDEEL:

Fluazifop-p-butyl (aryloxyphenoxypropionate) 125 g/ℓ Fluazifop-p-butyl (aryloxyphenoxypropionate)

Manufacture Date:
Vervaardigingsdatum

Batch No.:
Lotnommer

NET MASS/ NETTO MASSA

SEE ENCLOSED LEAFLET FOR FULL PARTICULARS
SIEN INGESLOTE VOUBILJET VIR VOLLE BESONDERHEDE

Registration holder/Registrasiehouer:

CEDAR FALLS PROPERTIES (Pty) Ltd

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UN No.: 3082



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