



FLUZIE

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY											
VERWYS NA BESONDERHEDE SOOS OP HOUER / SAK GEDRUK GEBRUIKSAANWYSINGS INGESLUIT Lotnummer Datum van vervaardiging	FLUZIE										
	HERBICIDE										
	Reg. No. L9460, Act/Wet No. 36 of/van 1947 Namibian Reg. No. N-AR 2105 1: 26/02/2014										
	A post-emergence emulsifiable concentrate selective herbicide for the control of annual and perennial grasses in the crops as listed. It can also be used for the chemical ripening and eradication of sugarcane as well as the suppression of grass growth and seeding on verges. 'n Na-opkoms emulgeerbare konsentraat selektiewe onkruidodder vir die beheer van een- en meerjarige grasse in gewasse soos aangedui. Dit kan ook vir rypmaak of beheer van suikerriet gebruik word, sowel as die onderdrukking van grasgroeie en saai op padrande.										
DIRECTIONS FOR USE ENCLOSED REFER TO DETAILS AS PRINTED ON CONTAINER / BAG Batch Number Date of manufacture	<table border="1"><thead><tr><th>HRAC HERBICIDE GROUP CODE</th><th>A1</th><th>HRAC ONKRUIDDODDERGROEPEKODE</th></tr></thead><tbody><tr><td colspan="3">ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL</td></tr><tr><td>Fluazifop-P-butyl (phenoxy)</td><td>125 g/l</td><td>Fluazifop-P-butil (fenoksie)</td></tr></tbody></table>		HRAC HERBICIDE GROUP CODE	A1	HRAC ONKRUIDDODDERGROEPEKODE	ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL			Fluazifop-P-butyl (phenoxy)	125 g/l	Fluazifop-P-butil (fenoksie)
	HRAC HERBICIDE GROUP CODE	A1	HRAC ONKRUIDDODDERGROEPEKODE								
	ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL										
	Fluazifop-P-butyl (phenoxy)	125 g/l	Fluazifop-P-butil (fenoksie)								
Registration Holder / Registrasiehouer Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk. Reg. No. 2000/010819/07 P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid-Afrika											
5l UN Number: 1993   HARMFUL / SKADELIK 											

WARNINGS

Withholding periods: Minimum number of days between the last application and harvesting or grazing.

Dry beans.....	60 days
Lucerne and sugarcane.....	14 days
Medic- and clover pastures.....	32 days
All other crops.....	40 days

NOTE: Withholding periods above are based on local requirements for residue levels and may differ from other countries to which treated products may be exported. If the treated crop is intended for export, please consult the relevant exporting body regarding the pre-harvest interval requirements of the countries to which the produce will be exported.

- **FLUZIE** has been tested on the most important commercial varieties without any phytotoxic effects. More susceptible cultivars may be released in future which will need to be tested; for this, apply **FLUZIE** to a limited test area before commercial applications are made.
- Toxic to fish.
- **Flammable:** Keep away from open flames.
- Handle with care.
- Store in the original container in a safe place away from food and feed.
- Keep out of reach of children, animals and uninformed persons.
- **In case of poisoning, contact a doctor and show them this label.**
- **Re-entry** – Do not enter the treated area within 1 day after application unless wearing suitable protective clothing.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over, or allow spray drift to contaminate adjacent areas or water.

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 weed 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

- Do not smoke, eat or drink whilst handling this product or before washing hands and face and changing clothes after use.
- Prevent contamination of food, feed, drinking water as well as eating utensils.
- Wear rubber gloves and a face shield when handling the concentrate. In the case of eye contact, flush the product out immediately. In the case of skin contact, wash the product off immediately. Remove and wash contaminated clothing immediately. Wash contaminated clothing daily.
- Invert the empty container over the spraying or mixing tank and allow it to drain for at least thirty seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to at least 10% of the volume of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Whilst spraying, avoid contact with the spray as much as possible. Avoid spray drift onto other crops, grazing, rivers or dams.
- Clean the applicator thoroughly following use and dispose of the wash water where it will not contaminate crops, grazing, rivers and dams. Destroy the empty container and do not use it for any other purpose.

SYMPTOMS OF HUMAN POISONING

Nausea. Vomiting may occur with associated abdominal pain and diarrhoea. Severe poisoning may result in death from respiratory failure.

Eyes: May cause irritation and discomfort, tears, redness, swelling and blurred vision. Skin: Should not cause prolonged skin irritation.

FIRST AID TREATMENT

- **Eyes:** Flush eyes with plenty of clean water for at least 15 minutes holding eyelids open. Remove contact lenses. Call a doctor for treatment advice. Obtain medical attention immediately if irritation persists.

- **Skin contact:** Immediately remove contaminated clothing and flush body and clothes with large amounts of water. Wash thoroughly with soap and water (including hair, skin and fingernails) Wash contaminated clothing before re-use. Seek medical assistance if irritation persists. Persons providing first aid must wear gloves to avoid self-contamination.
- **Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is laboured, give oxygen. Unlikely to be irritating. Seek medical assistance if irritation develops or persists.
- **Ingestion:** If the product has been ingested, do not induce vomiting unless an approximately lethal dose or more is taken. Get medical attention immediately. Administer a large quantity of activated medical charcoal.

NOTE TO PHYSICIAN

Symptomatic and supportive treatment.

RESISTANCE WARNING

For resistance management, **FLUZIE** is a group code A (1) herbicide. Any weed population may contain individuals naturally resistant to **FLUZIE** and other group code A (1) herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **FLUZIE** or any other group code A (1) herbicide.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code.
Alternate or tank mix with registered 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.

The presence of resistant weeds is difficult to detect prior to use and therefore neither the Registration Holder nor the Distributor can accept responsibility for any losses as a result of **FLUZIE** not controlling resistant weeds. Do not apply **FLUZIE** in situations where weed resistance has been confirmed. Sub-standard application of **FLUZIE** will lead to inferior weed control and may assist in the development of herbicide resistance.

USE RESTRICTONS:

1. Do not plant maize, sorghum, wheat or any other grass crop on treated soil within a period of 3 months after application of **FLUZIE**.
2. Do not apply **FLUZIE** to any crop or situation not mentioned in this label.

MODE OF ACTION

Fluazifop-p-butyl is quickly absorbed through the leaf surface, hydrolysed to fluazifop-p and translocated through the phloem and xylem, accumulating in the rhizomes and stolons of perennial grasses and the meristems of annual and perennial grasses.

DIRECTIONS FOR USE

Use only as directed.

FLUZIE is a selective post-emergence grass herbicide and may be applied at any stage of the crop and weed development. However, the later growth stages of grass weeds may require a higher dosage for acceptable control. Although **FLUZIE** has some residual action, it is advisable to wait until the majority of the grass weeds have germinated before application. Rain or irrigation within one hour after the application of **FLUZIE** may necessitate a second spray. Although the observable effect of application may not be seen for up to 3 weeks after spraying, **FLUZIE** does cause the immediate cessation of cell division in the plant and therefore in growth. The addition of a wetter is not necessary unless the concentration is below 1 l / 200 l water.

COMPATIBILITY

FLUZIE is not compatible with most other herbicides and any form of **dimethoate** due to an adverse effect on activity. Where two herbicides must be applied, they have to be applied separately with at least a 14-day interval except in the following cases:

- **Grass suppression:**

Different types of grass react differently to a particular rate of **FLUZIE**; therefore, it is necessary to experiment with the dosage rate within the recommended limits. Higher dosage rates may cause a temporary browning effect while the period of suppression will be shorter at lower dosage rates.

Repeated application of **FLUZIE** may result in the multiplication of broadleaf weeds because the competition with grasses is reduced.

Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Meridian Agrochemical Company (Pty) Ltd accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Meridian representative was consulted beforehand.

CLIMATIC CONDITIONS

FLUZIE should be applied when weeds are actively growing, under favourable conditions. Warm, humid conditions are advantageous for good weed control with **FLUZIE**. **FLUZIE** should not be applied when crops and weeds are under drought stress or cold temperatures, when poor or no weed control will result.

CROP SUSCEPTIBILITY

The presence of *Pseudomonas* leaf spot in green bean cultivars, especially when planted early (i.e. September – October), is aggravated when **FLUZIE** is sprayed onto the plants. The following cultivars are especially prone to *Pseudomonas* leaf spot if planted early in the summer: Slenderette, Top Crop, Winter Green and Harvester. On dry beans necrosis occurs on the Brown Haricot and Speckled sugar beans cultivars. Do not apply **FLUZIE** to sugarcane which is intended for use as seedcane.

SUGARCANE RIPENING

FLUZIE stunts or kills young, uncurled leaves and may also kill the growing point. Lateral buds then develop from a few top nodes. Stalk growth is restricted and the unwanted, immature tops of some of the stalks may eventually break off. This will not result in the reduction of the sucrose yield as compared to untreated, commercially harvested crops as long as the recommended period between spraying and harvesting is not exceeded. The higher rates of **FLUZIE** within the recommended range exaggerate the ripening symptoms. **FLUZIE** thins out the crop canopy and results in a better crop burn.

All varieties respond to **FLUZIE**.

SUGARCANE ERADICATION

- Spray actively growing sugarcane in the spring or summer when the sugarcane is at least 450 mm tall and fully (or almost fully) tillered.
- Apply in 200 – 300 l water / ha and ensure thorough coverage of all of the green foliage.
- Do not add a wetting agent, or mix **FLUZIE** with any other chemicals.
- On soils with a clay content of greater than 8%, do not disturb the soil and do not plant within 28 days of application. **Only** NCO 376 plantings are recommended.
- On soils with a clay content of less than 8%, do not disturb the soil and do not plant within 56 days of application. **Only** NCO 376 plantings are recommended.
- Some sugarcane re-growth may occur, which can be mechanically removed.
- If broadleaf weeds are a problem, they can be eradicated after planting with a herbicide spray such as **Paraquat 200 SL** (L9085).

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application. **FLUZIE** can be applied by ground rig, aircraft or knapsack sprayer (spot treatment) Use only clean water and equipment operating at pressures of 100 – 300 kPa. Do not apply **FLUZIE** if rain is expected within one hour.

AERIAL APPLICATION

Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Remedies). It is important to 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:

Equipment

- Use suitable atomising equipment that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 60-75% of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters

- A minimum volume of 35 ℓ spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 30 – 45 droplets per square cm must be recovered at the target.
- A droplet spectrum with a VMD of 300 – 350 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 3 and 4m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.

Meteorological Conditions

- The difference between the wet and dry bulb readings, as determined using a whirling hygrometer, must not exceed 8 °C. The addition of a suitable anti0evaporant is recommended if the VMD of the droplets is less than 200 – 250 microns.
- Do not spray under turbulent, unstable conditions or during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions as this may cause:
 - i. Reduced efficacy due to suspension and evaporation of small droplets in the air (Which leads to inadequate coverage).
 - ii. Damage to other sensitive crops and/or non-target areas through drifting of the spray cloud away from the targeted area.
- Do not spray when the wind speed exceeds 15 km per hour.

General

- Ensure that fields are accurately marked and 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 the relevant data will be recorded in a log book and kept for future.

RECOMMENDATIONS

CROP	FLUZIE ℓ /ha	REMARKS
As a grass herbicide: Brussels sprouts Carrots Deciduous fruit Dry beans Forestry Grape vines Ground nuts Lucerne Peas	*2.0-4.0 ℓ / ha	Apply at an early post-emergence stage to seedlings up to the 6-leaf stage of development. (See A< B, C, and D below). If FLUZIE is sprayed at a later stage or if the weeds are physiologically far advanced, a higher dosage rate may be required.
Green beans Medic and clover pastures Onions (seedbed and transplanted)	*1.0-2.0 ℓ / ha	
Spot treatment in the above crops	2.0 % FLUZIE mixture + a suitable wetter	Apply early in the summer on active growth using a knapsack sprayer. This treatment should control the grasses listed and also suppress common couch (<i>Cynodon dactylon</i>) and couch paspalum (<i>Paspalum paspalodes</i>) (See the weed species list A, B, C and D below).

***See weed Species List A, B, C and D.**

CROP	FLUZIE ℓ /ha	REMARKS
As a sugarcane ripener: Ground application: All varieties except N14	300 ml / ha	Apply by knapsack with overhead boom in 50 – 200 ℓ water / ha
Variety N14	400 ml / ha	See notes.
Aerial application: All varieties except N14	330 ml / ha	Apply in 30 – 35 ℓ water / ha
Variety N14	440 ml / ha	See notes
Sugarcane eradication: Ground application: (for conservation tillage) Variety NCO 376 plantings	6.0 ℓ / ha	See notes

Timing when using FLUZIE as a ripener:

Apply 4 – 10 weeks before harvest. Do not apply during June to September. When the crop growth is rapid, the time between spraying and harvesting will be shorter than when conditions are cooler and the growth is slower. Crops must be actively growing when sprayed and must not be suffering from nutrient, moisture or any other stress factor.

CROP	FLUZIE ℓ /ha	REMARKS
As a growth inhibitor on verges, roadsides, orchards and waterways.	500 - 750 ml / ha	Slash the grass to the preferred length and apply in 250 – 300 ℓ water / ha. Ensure sufficient leaf surface for good foliar uptake. Repeat when necessary.

WEED SPECIES NORMALLY CONTROLLED:

	Application rates	Growth stage of grass weed at application	Botanical name	Common name
A	1.0 ℓ / ha	Seedlings up to the 6 leaf stage.	<i>Avena fatua</i> <i>Lolium multiflorum</i>	Common wild oats Italian Ryegrass
B	2.0 ℓ / ha	Seedlings up to the 6 leaf stage.	<i>Bromus unioloides</i> <i>Echinochloa crus-galli</i> <i>Setaria pallide-fusca</i> <i>Zea mays</i>	Rescue grass Barnyard grass Red bristle grass Volunteer maize
C	3.0 ℓ / ha	Seedlings up to the 6 leaf stage.	<i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Paspalum dilatatum</i> <i>Urochloa panicoides</i>	Crab finger-grass Goose grass Common paspalum Herringbone grass
D	4.0 ℓ / ha	--	<i>Brachiaria eruciformis</i> <i>Cynodon dactylon</i> * <i>Paspalum paspaloides</i> *	Sweet signal grass Common couch

*Apply only to rhizomes that have been broken by cultivation. Repeat the treatment on any re-growth which may occur.

ACKNOWLEDGEMENT OF TRADEMARKS

Paraquat 200 SL (L9085)

Meridian Agrochemical Company (Pty) Ltd

WAARSKUWINGS

Onthoudingsperiodes: Minimum aantal dae tussen die laaste toediening en oes/ weiding:

Droëbone.....	60 Dae
Lusern en Suikerriet.....	14 Dae
Medics en klawer weidings.....	32 Dae
All ander gewasse.....	40 Dae

NOTA: Onthoudingsperiodes soos hierbo aangedui word, is op plaaslike vereistes vir residu vlakke gebaseer en mag verskil van ander lande na wie die behandelde produkte uitgevoer mag word. In die behandelde gewas vir uitvoere bestem is, moet die betrokke uitvoer liggaam genader of gekontak word rakende die na-oes interval vereistes van die lande na wie die produkte uitgevoer gaan word.

- **FLUZIE** is getoets op die mees belangrikste kommersiële kultivars met geen fitotoksisiteit effekte nie. Meer vatbare kultivars kan in die toekoms beskikbaar gestel word wat uit die aard van die saak getoets moet word. Vir die doeleinde, dien **FLUZIE** toe op 'n beperkte toetsterrein voordat meer kommersiële toedienings gemaak word.
- Giftig vir visse.
- **VLAMBAAR:** Hou buite bereik van oop vure/ vlamme. □ Hanteer versigtig.
- Stoor die produk in sy oorspronklike houer in 'n veilige plek weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **In die geval van vergiftiging, kontak 'n geneesheer en toon aan hom hierdie etiket.**
- **Her-betreding** – Moet nie die behandelde area betree binne 1 dag na toediening nie behalwe as daar beskermde klere gedra word.
- **Lugtoediening:** Stel alle inwoners in die onmiddellike omgewing van die gebiede wat behandel gaan word in kennis dat daar bespuitings gaan plaasvind en reik die nodige waarskuwings uit. Moet nie bo-oor naby liggende areas of water spuit nie – moet ook nie toelaat dat daar wegdrywing plaasvind na hierdie naby liggende areas of water nie.

Hoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond, klimaats- en bergingstoestande, kwaliteit van die verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word 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 gewasse, plantegroei en die omgewing of nadelige invloede op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van 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 in die geval van enige onsekerheid.

VOORSORGMATREËLS

- Moet nie rook, eet of drink terwyl die produk hanteer word of voordat daar hande en gesig gewas is en klere verander is na gebruik nie.
- Voorkom die besoedeling van voedsel, voere, drinkwater sowel as eetgerei.
- Dra rubber handskoene en gesigbeskerming wanneer die konsentraat hanteer word. In die geval van oogkontak, spoel die oë onmiddellik uit. In die geval van velkontak, was die produk onmiddellik af. Verwyder en was gekontameneerde klere onmiddellik uit.
- Was gekontameneerde klere daagliks uit.
- Keer die leë houer oor die meng- of spuittenk en laat dit toe om te dreineer vir ten minste 30 sekondes totdat die vloeï in 'n drip fase verander het. Spoel die houer hierna drie keer uit met 'n volume gelykstaande aan ten minste 10% van die volume van die houer. Voeg die spoelwater by die tenkmengsel voordat die houer op die voorgeskrewe manier vernietig word.
- Terwyl daar gespuit word, vermy sover moontlik kontak met die spuitstof/ sproeï .
- Verhoed die wegdrywing van die spuitnewel na ander gewasse, weidings, riviëre en damme.
- Maal alle toerusting deeglik skoon na gebruik en raak ontslae van die waswater waar dit nie gewasse, weidings, riviëre en damme sal besoedel of kontameneer nie. Vernietig die leë houer en moet dit vir geen ander doel gebruik nie.

SIMPTOME VAN MENSLIKE VERGIFTIGING

Naarheid: Braking mag voorkom met geassosieerde abdominale pyn en diarree. Ernstige vergiftiging mag dood tot gevolg hê a.g.v respiratoriese versaking.

Oë: Dit mag irritasie en ongemak, trane, rooi voorkoms, swelling en dowwe visie tot gevolg hê.

Vel: Behoort nie langdurige vel irritasie te veroorsaak nie.

NOODHULPBEHANDELING

- **Oë:** Spoel die oë uit met vir ten minste 15 minute terwyl ooglede oopgehou word. Verwyder die kontaklense. Ontbied onmiddellik mediese hulp en verkry mediese hulp in gevalle waar irritasie aanhou.
- **Velkontak:** Verwyder die gekontameneerde klere onmiddellik en spoel die liggaam en klere met groot volume water. Was deeglik met seep en water (insluitend hare, vel en vingernaels). Was gekontameneerde klere voordat dit weer gebruik word. Persone wat noodhulp toepas moet self handskoene dra om eie-kontaminasie te verhoed.
- **Inaseming:** Verwyder die pasiënt na bron van vars lug. Indien die persoon nog nie asemhaal nie, voorsien kunsmatige asemhaling, verkieslik mond-tot-mond. Indien persoon sukkel met asemhaling, voorsien suurstof. Onwaarskynlik dat dit irritasie sal veroorsaak. Verkry mediese hulp indien die irritasie ontwikkel en voortduur.
- **Inname:** Indien die produk ingesluk is, moet nie braking veroorsaak nie, behalwe as daar 'n dodelike volume of meer ingeneem is. **Verkry onmiddellik mediese aandag.** Maak gebruik van 'n groot volume geaktiveerde medisinale houtskool.

NOTA AAN GENEESHEER:

Simptomatiese en ondersteunende behandeling.

WEERSTANDBESTUUR

Vir weerstandsbestuur, is **FLUZIE** 'n groeikode A (1) onkruidodder. Enige onkruidpopulasie mag individue insluit wat 'n natuurlike weerstand teenoor **FLUZIE** besit of 'n ander groep kode A (1) onkruidodder. Die weerstandbiedende individue kan die onkruidpopulasie oorheers indien hierdie groep onkruidodders herhaaldelik gebruik word. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **FLUZIE** of enige ander groep kode A (1) onkruidodders beheer word nie.

Om weerstand teen onkruidodders te vertraag:

- Verhoed die eksklusiewe en herhaaldelike gebruik van onkruidodders van dieselfde onkruidodder groeikode. Wissel die tenkmengsel af met geregistreerde produkte van verskillende groeikodes.
- Integreer ander beheermaatreëls soos (chemies, meganiese en biologies) binne die onkruidbeheerprogramme.

Vir spesifieke ingligting rakende weerstandsbestuur moet die registrasiehouer van die produk gekontak word.

Die voorkoms van weerstandbiedende onkruid kan nie voorspel word nie en daarom kan die Registrasiehouer of Verspreider nie verantwoordelik gehou word vir enige verliese wat gelei word omdat **FLUZIE** nie die weerstandbiedende onkruid beheer nie. Moet nie **FLUZIE** toedien in omstandighede waar daar reeds weerstand voorkom of gerapporteer is nie. Ondergesikte toediening sal lei tot swak onkruidbeheer and mag bydra tot die ontwikkeling van onkruidweerstand.

GEBRUIKSBEPERKINGS

1. Moet nie mielies, sorghum, koring of enige ander gras gewas plant op die behandelde grond binne 3 maande na toediening van **FLUZIE** nie.
2. Moet onder geen omstandighede **FLUZIE** op enige gewas of situasie toedien wat nie op die etiket genoem is nie.

METODE VAN WERKING

Fluazifop-P-butiel word vinnig opgeneem deur die blaarooppervlakte, word gehidroliseer na fluazifop-P en getranslokeer deur die Floeem en Xileem. Dit akkumuleer in die rhizomes en stolone van meerjarige grasse en die meristeme van eenjarige en meerjarige grasse.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

FLUZIE is 'n selektiewe na-opkoms gras onkruidodder en mag op enige stadium van die gewas en onkruid ontwikkeling toegedien word. Die latere groei stadia van grasonkruid moet

'n hoër dosis vir voldoende beheer verkry. Alhoewel **FLUZIE** 'n residuele aktiwiteit het, is dit te aanbevole dat daar eers gewag moet word dat die meeste grasonkruid ontkiem het voor toediening. Reën of besproeiing binne 1 uur na toediening van **FLUZIE** mag 'n tweede bespuiting noodsaak. Hoewel die sigbare effek van die produk nie gesien mag word tot omtrent 3 weke na bespuiting nie, veroorsaak **FLUZIE** onmiddellike staking van selverdeling in die plant en daarmee saam die groei. Die byvoeging van 'n benatter is nie nodig nie tensy die konsentraat laer as 1 l / 200 l water is.

VERENIGBAARHEID

FLUZIE is nie verenigbaar met die meeste ander onkruidodders nie of enige vorm van **dimetooat** nie vanweë die nadelige uitwerking op die aktiwiteit. In die gevalle waar daar twee onkruidodders toegedien moet word, moet dit apart toegedien word met 'n twee weke interval behalwe in die volgende gevalle:

Grasonderdrukking

Verskillende grassoorte het verskillende reaksies teen 'n spesifieke dosis van **FLUZIE**; in die lig hiervan is dit nodig om te eksperimenteer met die dosis van toediening binne die aanbevole toedieningsdosis. 'n Hoër toedieningsvolume mag 'n tydelike verbruiningseffek veroorsaak terwyl die periode van onderdrukking met lae dosisse korter sal wees.

'n Herhaalde toediening van **FLUZIE** mag lei tot die vermenigvuldiging van breëblaaronkruid omrede die kompetisie met grasse verminder word.

Moet nie die produk toedien in kombinasie of in tenkmengsel met enige ander produk of landbou remedie wat nie spesifiek op die etiket gelys is nie. Meridian Agrochemical Company (Pty) Ltd aanvaar geen verantwoordelikheid vir enige negatiewe effek wat ondervind mag word indien die instruksies van die etiket nie nagekom word nie behalwe indien 'n Meridian verteenwoordiger vooraf geraadpleeg is.

KLIMAATSTOESTANDE

FLUZIE moet toegedien word wanneer die onkruid aktief groei onder gunstige toestande. Warm, humiditeitstoestande is voordelig vir goeie onkruid beheer met **FLUZIE**.

FLUZIE moet nie toegedien word onder droogte stres of koue temperatuur wat swak of geen onkruidbeheer tot gevolg sal hê nie.

GEWASVATBAARHEID

Die teenwoordigheid van *Pseudomonas* blaarvlek in groenboon kultivars, veral wanneer dit geplant word (September – Oktober) word vererger wanneer **FLUZIE** op die plante gespuit word. Die volgende gewasse is veral geneig tot *Pseudomonas* blaarvlek indien daar vroeg in die somer geplant word: Slenderette, Top Crop, Winter Green en Harvester.

Op droë bone vind nekrose plaas op die "Brown Harricot" en "Speckled" suikerbone. Moet nie **FLUZIE** op suikerriet toedien wat gebruik word vir saadriet nie.

RYPMAKING VAN SUIKERRIET

FLUZIE vertraag of dood jong blare en mag ook die groeipunt dood. Laterale ogies ontwikkel dan vanaf 'n paar boonste nodes. Rietgroei word beperk en die onnodige, onvolwasse punte van sommige riete mag uiteindelik afbreek. Dit lei nie tot 'n afname in suikrose-opbrengs in vergelyking met die onbehandelde, kommersiële ge-oeste gewasse nie, solank as die tydperk tussen bespuiting en oes nie oorskry word nie. Hoër toedieningshoeveelhede van **FLUZIE** binne die aanbevole dosis vererger die rypmakingsimptome. **FLUZIE** dun die gewas uit en lei tot 'n meer effektiewe brand van die gewas.

Alle kultivars sal teen **FLUZIE** reageer.

VERNIETIGING VAN SUIKERRIET

- Dien toe op aktief groeiende suikerriet in die lente of somer wanneer die suikerriet ten minste 450mm in lengte is en ten volle (of amper ten volle) gestoel het.
- Dien 200 – 300 l water / ha toe en verseker deeglike bedekking van al die groen blare
- Moet nie 'n benattingsmiddel byvoeg, of **FLUZIE** met enige ander chemikalie meng nie. Op gronde met 'n klei inhoud van meer as 8%, moet nie die grond versteur nie en moet nie plant binne 28 dae na toediening nie. **Slegs** NCO 376 aanplantings word aanbeveel.
- Op gronde met 'n klei inhoud van minder as 8%, moet nie die grond versteur nie en moet nie plant binne 56 dae na toediening nie. **Slegs** NCO 376 aanplantings word aanbeveel.
- Daar kan suikerriet hergroei plaasvind, wat meganies verwyder kan word.

- Indien breëblaaronkruid 'n probleem is, kan dit verwyder word na plant met 'n onkruidodder spuit soos **Paraquat 200SL** (L 9085).

TOEDIENINGSMETODES

Verseker dat die toerusting korrek gekalibreer is en gereeld gedurende toediening nagegaan word om egalige en akkurate toediening te verseker. **FLUZIE** kan toegedien word deur grondtoerusting, vliegtuig of rugsakspuit (kolbehandeling). Maak gebruik van slegs skoon water en toerusting met 'n werkverrigting by 'n drukking van 100 – 300 kPa. Moet nie **FLUZIE** toedien binne wanneer daar reën binne 1 uur verwag word nie.

Lugtoediening:

Lugbespuiting mag slegs gedoen word deur 'n geregistreerde Lugtoedieningsoperateur wat gebruik maak van korrekte gekalibreerde vliegtuig in oorleg met die instruksies soos voorsien in die SANS Kode 10118 (Lugtoediening van Landbou Remedies). Dit is belangrik om daarop te let dat die spuitmengsel eweredig oor die teiken area versprei moet word en die verliese aan spuitmateriaal moet tot minimum beperk word. Dit is dus van kardinale belang dat daar voldoen moet word aan die volgende kriteria:

Toerusting

- Maak gebruik van gepaste atomiseerders wat die gepaste druppelgrootte en verlangde dekking oor die teiken area sal verseker en daarmee saam die verliese aan wegdrywing tot 'n minimum sal beperk.
- Die operateur moet 'n sisteem kies wat 'n druppelspektrum met die kleinste moontlike Relatiewe Span sal produseer.
- Al die spuitneuse / atomiseerders moet in die binnste 60% - 75% van die vlerkspan geplaas word om die beweging van druppels in die vlerkvorteks in te beperk.

Toedieningsvereistes

- 'n Volume van 35 l / ha word aanbeveel. Aangesien hierdie produk nie teen 'n verlaagde volume getoets is nie, kan die registrasiehouer nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, uit die lug toegedien word nie.
- 'n Druppelbedekking van 30 - 45 druppels/cm² moet op die teiken area herwin word.
- 'n Druppelspektrum met 'n VMD van 300 - 350 mikrons word aanbeveel. Verseker dat die produksie van fyn druppels (kleiner as 150 mikrons – hoë drywing en verdampingspotensiaal) tot 'n minimum beperk word.
- Die hoogte van die spuitbalk moet op 3 - 4 meter bo die teiken gehandhaaf word.
- Moet nie spuit wanneer die vliegtuig aan die bopunt is van, of tydens 'n duik nie, of terwyl dit uitklim of draai nie.

Meteorologiese toestande:

- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihygrometer, moet nie 8°C oorskry nie. Die byvoeging van 'n geskikte anti-evaporant word aanbeveel indien die VMD van die druppels kleiner as 200 - 250 mikrons is.

Moet nie uit die lug toedien tydens onstabiele, turbulente toestande gedurende die hitte van die dag wanneer stygende en dalende konveksie windbeweging plaasvind nie.

- Dit is belangrik om daarop te let dat die lugtoediening van hierdie produk onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) tot die volgende probleme mag aanleiding gee.
 - i. Verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken), of
 - ii. Skade aan ander nie-teiken gewasse of ander sensitiewe areas a.g.v die wegdryf van die spuitwolk tot by daardie area.
- Moet nie spuit indien die windspoed 15km per uur oorskry nie.

Algemeen

- Verseker dat die gronde baie akkuraat gemerk is en dat die Lugspuit operateur presies weet watter velde om te spuit.
- Verkry versekering op skrif dat die Spuitoperateur die bogenoemde vereistes sal nakom alvorens enige bespuiting sal plaasvind.

GEWAS	FLUZIE ℓ / ha	OPMERKINGS
As 'n gras onkruidodder: Brusselse spruite Wortels Sagtevrugte Droë bone Bosbou Wingerd Grondbone Lusern Ertjies	*2.0 – 4.0 ℓ / ha	Dien toe op 'n vroeë naopkoms fase tot saailing tot en met 6 blaar fase van ontwikkeling (See A, B, C en D hieronder). Indien FLUZIE op latere stadium gespuit word of indien die onkruid fisiologies vër gevorder is, mag 'n hoër dosis benodig word.
Groenbone Medics en Klawerweidings Uie (saadbed en uitgeplant)	*1.0 – 2.0 ℓ / ha	
Kol behandeling in die bogenoemde gewasse	2.0 % FLUZIE mengsel + 'n gepaste benatter	Dien toe vroeg in die somer op aktiewe groei deur gebruik te maak van 'n rugsakspuit. Hierdie behandeling behoort die grasse te beheer soos gelys en behoort ook kweek (<i>Cynodon dactylon</i>) en Kweek Paspalum (<i>Paspalum paspaloides</i>) te onderdruk. (Sien die onkruidspesies gelys A, B, C en D hieronder).

***Sien onkruidlys A, B, C en D.**

GEWAS	FLUZIE ℓ / ha	OPMERKINGS
As 'n suikerriet rypmaker: Grondtoediening Alle kultivars behalwe N14 Kultivar N14	300 ml / ha 400 ml / ha	Dien toe met rugsakspuit met 'n oorhoofse spuitbalk in 50 – 200 ℓ water / ha. Sien notas
Lugtoediening Alle kultivars behalwe N14 Variëteit N14	330 ml / ha 440 ml / ha	Dien toe in 30 – 35 ℓ / ha Sien notas
Suikerriet vernietiging Grondtoediening (vir bewaringsbewerking) Kultivar NCO 376 aanplantings	6.0 ℓ / ha	Sien notas

Tydsberekening wanneer FLUZIE as rypmaker gebruik word:

Dien toe 4 – 10 weke voor oes. Moet nie toedien gedurende Junie tot September nie. Wanneer groei vinnig plaasvind sal die tyd tussen toediening en oestyd korter wees wanneer omstandighede koeler is en groei stadiger plaasvind. Gewas moet aktief groei wanneer dit gespuit word en moet nie onder stres wees agv voedings-, klammigheid of enige ander stres faktor nie.

GEWAS	FLUZIE ℓ / ha	OPMERKINGS
As 'n groei inhibeerder op wenakkers, kante van paaie, in boorde en in waterbane	500 – 750 ml / ha	Sny die gras tot op 'n gepaste hoogte en dien in 250 – 300 ℓ water / ha toe. Verseker genoegsame blaaroppervlak vir opneming. Herhaal wanneer nodig.

ONKRUID SPESIES WAT NORMAALWEG BEHEER WORD

	Toedienings koerse	Groei stadium van gras onkruid by toediening	Botaniese Naam	Algemene Naam
A	1.0 ℓ / ha	Saalinge tot die 6 blaarstadium	<i>Avena Fatua</i> <i>Lolium multiflorum</i>	Wilde Hawer Italiaanse Raaigras
B	2.0 ℓ / ha	Saalinge tot die 6 blaarstadium	<i>Bromus uniloides</i> <i>Echinochloa crus-galli</i> <i>Setaria pallide-fusca</i> <i>Zea mays</i>	Reddingsgras Hanpootmanna Rooiborselgras Opslagmielies
C	3.0 ℓ / ha	Saalinge tot die 6 blaarstadium	<i>Digitaria sanguinalis</i> <i>Eleusine indica</i> <i>Paspalum dilatatum</i> <i>Urochloa panicoides</i>	Kruisvingergras Jongosgras Gewone Paspalum Beesgras
D	4.0 ℓ / ha	--	<i>Brachiaria eruciformis</i> <i>Cynodon dactylon*</i> <i>Paspalum paspaloides</i>	Litjiesinjaalgras Gewone kweek* Kweek paspalum

*Dien toe op opgebreekte rhizome wat deur meganiese bewerking is. Herhaal die behandeling op enige her-groei wat mag voorkom.

ERKENNING VAN HANDELSMERKE
Paraquat 200 SL (L9085)

Meridian Agrochemical Company (Edms) Bpk