



Dow AgroSciences

TURFWEEDER™ 457,5 SL



HERBICIDE

Reg No L5292 Act/Wet 36/1947

N-AR 0568

W130103

FOR INDUSTRIAL USE ONLY

SLEGS VIR INDUSTRIËLE GEBRUIK

A selective herbicide as a solution for the control of a wide range of broadleaf weeds as listed, on lawns, turf, golf courses and other sporting fields.

'n Selektiewe onkruiddoder as 'n oplossing vir die beheer van 'n wye reeks breëblaaronkruid, soos aangedui, in grasperke, golfbane en ander sportvelde.

HRAC HERBICIDE GROUP CODE

O

HRAC ONKRUIDDODER GROEP KODE

ACTIVE INGREDIENTS/AKTIEWE BESTANDDELE

Dicamba (benzoic acid).....	120 g/λ a.e./s.c.	Dikamba (bensoësuur)
Dicamba as dimethyl amine salt	144,5 g/λ	Dikamba as dimetielamiensout
2,4-D (phenoxy compound).....	180 g/λ a.e./s.c.	2,4-D (fenoksieverbinding)
2,4-D as dimethyl amine salt	216,9 g/λ	2,4-D as dimetielamiensout
MCPA (phenoxy compound).....	157,5 g/λ a.e./s.c.	MCPA (fenoksieverbinding)
MCPA as dimethyl amine salt	193,0 g/λ	MCPA as dimetielamiensout

Nett volume.....λ.....Netto volume

REGISTRATION HOLDER / REGISTRASIEHOUER

DOW AGROSCIENCES SOUTHERN AFRICA (PTY) LTD / (EDMS) BPK
REG NO 1967/007147/07
PRIVATE BAG X160 PRIVAATSAK
BRYANSTON 2021
SOUTH AFRICA

Batch number Lotnommer

Date manufactured Vervaardigingsdatum

UN NUMBER: 3082

Tygerberg Poison Information Centre: +27(0)21 931-6129
Griffon Poison Information Centre: +27(0)82-446-8946
24 Hour Emergency Tel No: (032) 533-0716/082-887-8079
Information Hotline Tel No: +27 (012) 361-8112

TURFWEEDER 457,5 SL/2012-01-09



HARMFUL
SKADELIK



WARNINGS

Allow 7 days to pass between last application and harvesting or grazing of treated areas.

Handle with care.

Poisonous when swallowed, inhaled or absorbed through the skin.

May cause skin and eye irritation.

Toxic to fish.

Store away from food, feeds, fertilizer, seed and other agricultural remedies.

Keep out of reach of children, uninformed persons and animals.

RE-ENTRY INTERVAL: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect 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 weeds 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 or registration holder in the event of any uncertainty.

PRECAUTIONS

Do not inhale spray mist.

Wash contaminated clothing daily.

Wash with soap and water after use.

Do not eat, drink or smoke whilst mixing or applying, before washing hands and face and change of clothing.

Clean applicator with a household ammonia solution (1 %) before using with other herbicides. Let solution stand for several hours, preferably overnight. Rinse at least twice. This applicator should not be used for applying chemicals other than herbicides.

Dispose of wash water where it will not contaminate food, grazing, rivers or dams.

Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.

Destroy empty container by perforation and flattening and never use for any other purpose.

Prevent contamination of food, feeds, drinking water and eating utensils.

Many broadleaved crops, flowers and shrubs are susceptible to hormone weedkillers and care should be taken when spraying to avoid spray drift coming into contact with such plants.

Leaching to the roots of such plants may also cause damage, therefore the material should not be used in the root zone of trees and shrubs.

SYMPTOMS OF HUMAN POISONING

Headache, nausea, vomiting, anxiety, muscular weakness and diarrhea.

FIRST AID TREATMENT

Eye contact:

Immediately flush eyes with gently flowing lukewarm water or saline solution for 15 minutes, holding the eyelids open. Seek medical attention.

Skin contact:

If irritation occurs remove contaminated clothing. Wash skin gently and thoroughly with water and non-abrasive soap. Seek medical advice immediately if irritation persists.

Ingestion:

Have victim rinse mouth thoroughly with water. DO NOT induce vomiting. Give plenty of water to drink. Seek medical advice immediately.

Inhalation:

If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

ADVICE TO PHYSICIAN

Treatment should be symptomatic and supportive. Perform gastric aspiration and lavage. Charcoal administration may be beneficial. Administer intravenous fluids to accelerate excretion

USE RESTRICTIONS

- DO NOT USE on golf putting greens or on bowling greens.
- To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit trees or ornamental plants, or soil in which such plants are to be grown within 12 months or grain varieties in a susceptible stage of growth. Apply the product strictly in accordance with the application directions and take the wind speed and direction as indicated in the following table into consideration when applications are made.

THE WIND SPEED AND DIRECTION AT THE TIME OF APPLICATION WILL DETERMINE THE DISTANCE WHICH MUST SEPARATE THE CLOSEST EDGE OF THE AREA TO BE SPRAYED FROM SUSCEPTIBLE CROPS	
WIND SPEED km/h	GROUND APPLICATION
1,5 - 5	200 m downwind 200 m crosswind 6 m upwind
5 - 10	400 m downwind 200 m crosswind 1,5 m upwind
10 - 15	800 m downwind 400 m crosswind 1,5 m upwind
Above 15	Prohibited

RESISTANCE MANAGEMENT :

For resistance management, **TURFWEEDER 457,5 SL** is a group code O herbicide. Any weed population may contain individuals naturally resistant to **TURFWEEDER 457,5 SL** and other Group Code O herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **TURFWEEDER 457,5 SL** or any other Group Code O herbicides.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide Group Code. Alternate or tank mix with products from different herbicide Group Codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

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

DIRECTIONS FOR USE: Use only as directed

TURFWEEDER 457,5 SL is a selective broadleaf herbicide which may be used on common *Cynodon* turf varieties, eg Florida, Hall's Selection, Skaapplaas, Cape Royal, etc, Kikuyu grass and Swazigrass. Do not use on Daisy lawn. Under certain conditions **TURFWEEDER 457,5 SL** can cause slight discolouration of finely cut grass, especially when using the higher rate. The yellowing is normally temporary.

APPLICATION

TURFWEEDER 457,5 SL is usually applied after weed emergence when plants are in the active stage of growth. As most weeds are more susceptible when young, always spray at the earliest possible time. **TURFWEEDER 457,5 SL** will give best results when conditions are ideal for plant growth. The application of a nitrogenous fertilizer three weeks before treatment will improve the control of the weeds. Adverse growing conditions such as cold weather or excessive heat, drought or excessive rain, may adversely affect the action of the herbicide and users are cautioned that the recommendations given are for average use and not for abnormal conditions.

Rain or watering within 2 hours of application may diminish the effect. Calibration of the spray apparatus should first be carefully carried out to avoid any error in application. It is recommended that at least 200 litres of water be used per hectare to distribute the herbicide evenly. On smaller areas it is recommended that at least 5 λ of water be used per 100 m² to distribute the herbicide evenly.

Apply by means of a tractor boom sprayer, a knapsack sprayer or pressurized sprayers. Application by means of a watering can or equipment attached to garden hoses is not recommended.

Dilute the recommended amount of **TURFWEEDER* 457,5 SL** with water and apply as a fine even spray after emergence of broadleaf weeds.

Avoid fine droplet size - use low pressure flat fan nozzle of 80° or equivalent anti-drift type, and do not exceed spray pressure of 200 kPa. Spray volume must be a minimum of 200 λ /ha. Do not exceed spray height of 50 cm above target and ground speed of 10 km/hour. Do not apply if wind velocity exceeds 15 km/hour (as measured by handheld wind recorder). The difference between the wet and dry bulb readings on a whirling hygrometer must not exceed 8 °C.

RATES OF APPLICATION

On sporting turf, golf course fairways and lawns

[NOTE: DO NOT USE on golf putting greens or on bowling greens]

Use 5 - 7 litres/hectare. For smaller areas use 50 m λ /5 λ water/100 m². Use the higher rate of 70 m λ /5 λ water/100 m² for *Alternanthera* spp., *Brayulinea densa* and *Oxalis corniculata*. Repeat the application when necessary.

Pre-emergence weed control in newly planted turf

TURFWEEDER 457,5 SL may also be used for pre-emergence control of weeds, in newly planted turf. It should be applied at 70 mλ/5 λ water/100 m² immediately after planting of stolons and before weed emergence. This treatment will provide control of annual grasses in addition to the weeds listed below, for a period of 3 - 6 weeks depending on rainfall.

SOME WEEDS NORMALLY CONTROLLED AT 5 LITER/HECTARE [50 mλ/5 λ water/100 m²]

Botanical Name	Common Name
<i>Amaranthus</i> spp	Pigweed
<i>Bidens</i> spp	Blackjack
<i>Capsella bursa-pastoris</i>	Shepherd's purse
<i>Chenopodium album</i>	White goosefoot
<i>Coronopus didymus</i>	Swine cress
<i>Cotula anthemoides</i>	Cotula
<i>Datura stramonium</i>	Thorn apple
<i>Emex australis</i>	Spiny Emex
<i>Conyza</i> spp	Fleabane
<i>Chamaesyce prostrata</i>	Hairy creeping milkweed
<i>Chamaesyce hirta</i>	Red milkweed
<i>Chamaesyce inaequilatera</i>	Smooth creeping milkweed
<i>Lepidium</i> spp	Pepper cress
<i>Medicago polymorpha</i>	Burclover
<i>Nidorella</i> spp	Nidorella
<i>Paronychia braziliana</i>	Brazilian paronychia
<i>Plantago</i> spp	Ribwort
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Portulaca oleracea</i>	Purslane
<i>Stellaria media</i>	Chickweed
<i>Tagetes minuta</i>	Khaki weed
<i>Taraxacum officinale</i>	Common dandelion
<i>Tribulus terrestris</i>	Dubbeltjie

SOME WEEDS NORMALLY VARIABLY CONTROLLED AT 7 LITRES/HECTARE
[70 mλ/5 λ water/100 m²]

Botanical Name

Alternanthera pungens

Brayulinea densa

Oxalis corniculata

Common Name

Khaki bur weed

Carrotweed

Creeping sorrel

NOTE: Repeated applications at three-weekly intervals will be necessary for improved control of the three abovementioned weeds.

24 HOUR EMERGENCY TEL. NO. (032) 533-0716

INFORMATION HOTLINE : TEL. NO.: (012) 361-8112

WAARSKUWINGS

Laat 7 dae verloop na laaste toediening en oes of beweiding van behandelde gebiede.
Hanteer versigtig.

Giftig wanneer ingesluk, ingeasem of deur vel geabsorbeer word.

Mag vel- en oogirritasie veroorsaak.

Giftig vir visse.

Stoor weg van voedsel, voer, kunsmis, saad en ander landboumiddels.

Hou buite bereik van kinders, oningeligte persone en diere.

HERBETREDING: Moet nie behandelde gebied betree vir 1 dag na die bespuiting nie, tensy beskermende oorklere gedra word.

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-, klimaats- 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 gewasse, plantegroei, die omgewing of vir 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 die geval van enige onsekerheid.

VOORSORGMAATREËLS

Moet nie spuitnewel inasem nie.

Was besoedelde klere daaglik.

Was met seep en water na gebruik.

Moet nie eet, drink of rook tydens vermenging of voordat hande en gesig gewas is nie.

Maak spuittoerusting met 'n huishoudelike ammoniakoplossing (1 %) skoon voordat ander onkruidodders toegedien word. Laat staan die oplossing vir 'n paar uur, verkieslik oornag. Spoel ten minste twee keer uit. Hierdie spuittoerusting behoort nie gebruik te word vir die toediening van enige ander chemikalieë nie behalwe onkruidodders. Gooi waswater weg waar dit nie voedsel, weiding, riviere of damme sal besoedel nie.

Keer die leë houer om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeitot 'n gedrup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer op die voorgeskrewe wyse vernietig word.

Vernietig leë houer deur gate daarin te maak en plat te druk. Moet vir geen ander doel gebruik word nie.

Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.

Baie breëblaargewasse asook blomme en struik is gevoelig vir hormoon onkruidodders en sorg moet gedra word dat die spuitstof nie met sulke plante in aanraking kom wanneer daar gespuit word nie.

Uitloging van die middel tot by die wortels van gevoelige plante kan ook skade veroorsaak; die onkruidoder moet dus nie in die wortelgebied van bome en struik toegedien word nie.

SIMPTOME VAN MENSLIKE VERGIFTIGING

Kan hoofpyne, naarheid, angstigheid, spiervesel-trilling en diarree veroorsaak.

NOODHULPBEHANDELING

Oogkontak:

Spoel oë onmiddellik sagkens met loutwarm water of saline oplossing vir ten minste 15 minute, terwyl die ooglid oopgehou word. Raadpleeg 'n geneesheer.

Velkontak:

Wanneer kontak gemaak is met die vel, verwyder besoedelde klere en was hare en besoedelde liggaamsdele sagkens en deeglik met 'n sagte seep en water. Raadpleeg 'n geneesheer indien irritasie voortduur.

Insluk

Spoel mond baie goed uit met water. Moenie braking veroorsaak nie. Gee oorvloedig water om te drink. Kry mediese advies.

Inaseming:

Indien asemhaling ongemak of irritasie voorkom, verwyder persoon na vars lug. Sien dokter indien ongemak of irritasie aanhou.

NOTA AAN GENEESHEER.

Behandeling moet simptome en ondersteunend wees. Maagspoel en uitsuigherwinning moet toegepas word. Steenkool toediening mag voordelig wees. Dien vloeistowwe binnears toe om uitskeiding te bespoedig.

GEBRUIKSBEPERKINGS

- MOET NIE GEBRUIK op gholsetperke of op rolbalbane nie.
- Om skade te voorkom moet verhoed word dat dampe of spuitnewel in aanraking kom met of wegdryf na sensitiewe breëblaargewasse, vrugtebome of sierplante, of grond waarin sulke plante binne 12 maande gekweek gaan word of graansoorte wat in 'n gevoelige groeistadium is. Dien die produk streng volgens die toedieningsaanwysings toe en neem die windspoed en rigting in ag, soos per tabel hieronder, wanneer toedienings gemaak word.

DIE WINDSPOED EN WINDRIGTING TYDENS TOE-DIENING SAL DIE AFSTAND TUSSEN DIE NAASTE RAND VAN DIE GEBIED WAT BESPUIT MOET WORD EN DIE GEVOELIGE GEWASSE BEPAAL.	
WINDSPOED km/h	GRONDTOEDIENING
1,5 - 5	200 m windaf 200 m dwarswind 6 m windop
5 - 10	400 m windaf 200 m dwarswind 1,5 m windop
10 - 15	800 m windaf 400 m dwarswind 1,5 m windop
Meer as 15	Verbode

WEERSTANDSWAARSKUWING:

Vir weerstandsbestuur is **TURFWEEDER 457,5 SL** as 'n Groepkode O onkruidoder geklassifiseer. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **TURFWEEDER 457,5 SL**, of enige ander Groepkode O onkruidoder het. Indien hierdie onkruidoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal moontlik nie deur **TURFWEEDER 457,5 SL** of enige ander Groepkode O onkruidoder, beheer word nie.

Om weerstand teen onkruidoders te vertraag:

- Vermoed die eksklusiewe herhaaldelike gebruik van onkruidoders in dieselfde onkruidoder groepkode. Wissel af met, of gebruik tenkengsels van produkte in verskillende onkruidodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.

Vir spesifieke inligting oor weerstandsbestuur, kontak die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS : Gebruik slegs soos aangedui

TURFWEEDER 457,5 SL is 'n selektiewe breëblaaronkruidodder vir gebruik op gewone *Cynodon*-turfvariëteite, bv Florida, Hall's Selection, Skaapplaas, Cape Royal, en ook op kikoejoe en Swazigras. Moenie op Magrietgras gebruik nie. Onder sekere toestande kan **TURFWEEDER 457,5 SL** 'n mate van verkleuring van fyngesnyde gras veroorsaak, veral by toediening van die hoër konsentrasie. Die verkleuring is gewoonlik van 'n tydelike aard.

TOEDIENING

TURFWEEDER 457,5 SL word gewoonlik na opkom van die onkruid toegeëien wanneer die plante in 'n aktiewe groeistadium is. Aangesien die meeste onkruid meer vatbaar is in die jong stadium, moet daar so vroeg moontlik gespuit word. **TURFWEEDER 457,5 SL** sal die beste resultate lewer wanneer die groeitoestand ideaal is. Die aanwending van 'n stikstofbevattende bemestingstof drie weke voor behandeling sal die bestryding van die onkruid bevorder. Ongunstige toestande, bv koue weer of oormatige hitte, droogte of te veel reën kan die uitwerking van die onkruidodder benadeel. Derhalwe word gebruikers gewaarsku dat die aanbevelings betrekking het op normale en nie op abnormale toestande nie.

Reën of besproeiing binne 2 uur na toediening kan die uitwerking benadeel. Die spuitapparaat moet eers sorgvuldig gekalibreer word om enige foute by die toediening te voorkom. Dit word aanbeveel dat minstens 200 liters water/hektaar gebruik word om die onkruidodder egalig te versprei. Op kleiner oppervlaktes word dit aanbeveel dat minstens 5 liters water per 100 m² gebruik word om die onkruidodder egalig te versprei.

Dien toe met 'n trekker-balkspuit, 'n rugsakspuit of drukspuitpompe. Toediening deur middel van 'n gieter of toerusting wat aan tuinslange gekoppel word, word nie aanbeveel nie.

Verdun die aanbevole hoeveelheid **TURFWEEDER 457,5 SL** met water en dien toe as 'n fyn egalige bespuiting na-opkom van breëblaaronkruid. Kalibreer spuittoerusting versigtig voor gebruik.

Vermyn fyn druppelgroottes - gebruik lae druk platwaaierspuitpunte van 80° of ekwivalente anti-wegdrywing tipe. Die spuitdruk moet nie 200 kPa oorskry nie. Spuitvolume moet 'n minimum van 200 l/ha wees. 'n Spuithoogte van 50 cm bokant die teiken en 'n grondspoed van 10 km/h moet nie oorskry word nie. Indien die windspoed hoër is as 15 km/h (soos bepaal deur 'n handwindmeter) moet die produk nie toegeëien word nie. Die verskil tussen die nat- en droëbollesing, soos met 'n swaaihigrometer bepaal, moet nie meer as 8° C wees nie.

TOEDIENINGSHOEVEELHEDE

Op sportterreine, gholfbaan skoonvelde en grasperke

[NOTA: MOET NIE GEBRUIK op gholfsetperke of op rolbalbane nie.]

Gebruik 5 - 7 liter/ha. Vir kleiner oppervlaktes gebruik 50 ml/5 λ water/100 m². Gebruik die hoër dosis van 70 ml/5 λ water/100 m² vir *Alternanthera* spp., *Brayulinea densa* en *Oxalis corniculata*. Herhaal die toediening indien nodig.

Voor-opkombeheer van onkruid in pasgeplante grasperke

TURFWEEDER 457,5 SL kan ook die voor-opkombeheer van onkruid in pasgeplante gras gebruik word. Dit behoort teen 'n sterkte van 7 liter/ha aangewend te word onmiddellik nadat die gras uitgeplant is en voordat die onkruid opkom. Hierdie behandeling sal eenjarige grassoorte en die onkruid wat hieronder genoem word beheer vir 'n tydperk van 3 - 6 weke, afhangende van die reënval.

SOMMIGE ONKRUIDE WAT NORMAALWEG BEHEER WORD TEEN 5 LITER/HEKTAAR [50 ml/5 λ water/100 m²]

Botaniese Naam

Amaranthus spp
Bidens spp
Capsella bursa-pastoris
Chenopodium album
Coronopus didymus
Cotula anthemoides
Datura stramonium
Emex australis
Conyza spp
Chamaesyce prostrata
Chamaesyce hirta
Chamaesyce inaequilatera
Lepidium spp
Medicago polymorpha
Nidorella spp
Paronychia braziliana
Plantago spp
Polygonum aviculare
Portulaca oleracea
Stellaria media
Tagetes minuta
Taraxacum officinale
Tribulus terrestris

Gewone Naam

Misbredie
Knapsekêrel
Herderstassie
Withondebossie
Peperkruid
Cotula
Stinkblaar
Kaapse dubbeltjie
Skraalhans
Harige kruipmelkkruid
Rooi melkkruid
Gladde kruipmelkkruid
Peperbossie
Kliitsklawer
Nidorella
Brasiliaanse paronychia
Weëblaar
Voëlduisendknoop
Porslein
Sterremuur
Khakiebos
Perdeblom
Dubbeltjie

**SOMMIGE ONKRUIDE WAT NORMAALWEG WISSELVALLIG BEHEER WORD
TEEN 7 LITER/HEKTAAR [70 m³/5 λ water/100 m²]**

Botaniese Naam

Alternanthera pungens

Brayulinea densa

Oxalis corniculata

Gewone Naam

Kakiedubbeltjie

Wortelonkruid

Tuinranksuring

NOTA: Herhaalde toedienings met tussenposes van drie weke is nodig vir die verbeterde beheer van die bogenoemde drie onkruidsoorte.

24 UUR NOODGEVAL TEL. NO. (032) 533-0716

TEGNIESE NAVRAE/INLIGTING TEL. NO. (012) 361-8112