

Bromuron 100 GR



Reg. No.: L8017 Act /Wet No. 36 of/van 1947

A Non-selective root absorbed granular herbicide with extended residual action for the control of undesirable vegetation on non-crop land and on industrial sites.

'n Nie-selektiewe, wortelopneembare, korrel-tipe onkruidodder met lang nawerking vir die beheer van 'n ongewenste plantegroei in nie-gewas en nywerheidsgebiede

HRAC HERBICIDE GROUP CODE:	C1 + C2	HRAC ONKRUIDDODERGROEP KODE:
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Bromacil/Bromasil (uracil/urasil).....	50 g/kg
Tebuthiuron/Tebutiuron (urea compound/ureumverbinding).....	50 g/kg

Registration holder / Registrasiehouer:

**Volcano Agrosience (Pty) Ltd trading as
ARYSTA LifeScience South Africa (Pty) Ltd**

Co. Reg. No./Mpy. Reg. Nr.: 2000/004551/07

7 Sunbury Office Park,
off Douglas Saunders Drive,
La Lucia Ridge, South Africa, 4019
Tel: 031 514 5600

Contents/Inhoud
kg

Batch No. / Lot Nr.:	
Date of manufacture: / Datum van vervaardiging:	

U.N. No. 3077



**READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET
VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.**

For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.

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CAUTION / VERSIGTIG

WARNINGS:

- Handle with care.
- Harmful when swallowed.
- Mild skin and eye irritant.
- Store unused **BROMURON 100 GR** tightly closed in this container in a cool, well-ventilated place away from food, feeds, seed and other agricultural remedies.
- Avoid contamination of areas not under treatment with **BROMURON 100 GR**.
- Keep out of reach of children, animals and uninformed persons.
- Toxic to fish
- **Re-entry:** Do not enter treated field until spray deposit has dried unless wearing protective clothing.

Although this herbicide 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 effects 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 to 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 product dust.
- Wear protective clothing when handling the product. Wash protective clothing daily.
- Avoid contact with the remedy with the eyes, skin and clothing.
- Wash with soap and water after handling and application or after accidental contact with the skin.

- Do not eat, drink or smoke whilst applying the remedy, but wash hands and face thoroughly before doing so.
- Prevent contamination of food, feed, eating utensils and drinking water.
- Do not apply where run-off from the treated area will contaminate water or within 10 metres of a permanent water source.
- **Do not apply on or within 50 metres of desirable plants or trees (such as windbreaks, ornamental trees or shrubs along roads) or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots since such plants may be killed or severely damaged. Do not use on soils where susceptible plants are to be grown within five years.**
- Over-application or any use not in accordance with the directions on this label may lead to off-target and/or environmental damage.
- Dispose of container in an approved landfill, in a pesticide incinerator or burn container on a safe terrain where there is no risk of fire damage.

RESISTANCE WARNING

For resistance management, **BROMURON 100 GR** is an HRAC group code C1+C2 herbicide. Any weed population may contain individuals naturally resistant to **BROMURON 100 GR** and other group code C1+C2 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **BROMURON 100 GR** or any other group code C1+C2 herbicide.

In order to delay herbicide resistance:

- Avoid the exclusive and repeated use of herbicides from the same herbicide group code.
- Alternate or with products from different herbicide group codes.
- Integrate chemical and other control methods into weed control programmes.

DIRECTIONS FOR USE

Use only as directed

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 labelling.

- Study all instructions with care before application commences.
- **BROMURON 100 GR** should be applied before, but preferably during, a period when weeds are growing actively.
- Because **BROMURON 100 GR** is absorbed by plant roots, rain is required (after application) to wash the product into the root zones of target weeds.
- **BROMURON 100 GR** provides both pre- and post-emergence weed control and is, due to its extended soil action, particularly suited to maintain weed free areas.

METHOD OF APPLICATION

In order to facilitate accurate application, make use of suitable equipment, like a properly calibrated granular spreader, to apply **BROMURON 100 GR** evenly to the treatment area.

Avoid application on soil where the organic materials present exceeds 20 %.

DOSAGE RATES FOR APPLICATION: Industrial and other non-crop areas:

Problem	BROMURON 100 GR dosage (kg / ha)	
	Soil type	
	Light soil: Less than 20 % clay	Heavy soil: 20 – 45 % clay*
Annual weeds	45 kg/ha	60 kg/ha
Combination of annual and perennial weeds**	90 kg/ha	120 kg/ha

Maintenance on areas where weeds have been removed by chemical or mechanical means	60 kg/ha	90 kg/ha
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* On soils containing more than 45% clay, or soils laden with railway ash, consult your supplier.

** To control *Cynodon dactylon* (kweek), use a minimum of 120kg **BROMURON 100 GR** / ha.

Note:

- On small areas: Use 45 – 120 g **BROMURON 100 GR** / 10 m² depending on the clay content of the soil.
- To maintain weed free areas, it may be necessary to reapply **BROMURON 100 GR**, just prior or during the growing season, to such areas on an annual basis according to label recommendations.
- Use the higher rate under **Heavy soil**, where the annual rainfall exceeds 600mm per annum or to extend the residual effect of the herbicide.

Pre-construction treatment: Important!

- **Only use on non-crop land or industrial sites where no desirable vegetation occurs, or where such vegetation is not going to be planted in future.**
- Treat the paving base with 135 kg **BROMURON 100 GR** / ha (135 g / 10 m²). Leach the product into the top 50 – 100 mm base material with water and allow weed seeds to germinate before covering the treated area.

LIST OF WEEDS CONTROLLED BY BROMURON 100 GR:

Scientific name	Common name
<i>Amaranthus</i> spp	Pigweed
<i>Aristida</i> spp	Bristle grass
<i>Arctotheca calendula</i>	Cape marigold
<i>Bidens</i> spp	Blackjack
<i>Boerhavia erecta</i>	Erect Boerhavia
<i>Cenchrus</i> spp	Bur grass
<i>Cynodon dactylon</i>	Quickgrass
<i>Cyperus esculentus</i>	Yellow nutsedge
<i>Digitaria monodactyla</i>	Fingergrass
<i>Diheteropogon amplexans</i>	Broadleaf bluegrass
<i>Datura stramonium</i>	Thorn apple
<i>Eragrostis curvula</i>	Lovegrass
<i>Eleusine indica</i>	Goosegrass
<i>Erodium moschatum</i>	Musk heron's bill
<i>Flaveria bidentis</i>	Smelter's bush
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Hyparrhenia hirta</i>	Common thatching grass
<i>Hypochoeris glabra</i>	Smooth cat's ear
<i>Hordeum murinum</i>	Wild barley
<i>Inula graveolens</i>	Camphor Inula
<i>Lolium temulentum</i>	Darnel ryegrass
<i>Pennisetum clandestinum</i>	Kikuyu
<i>Portulaca oleracea</i>	Purslane
<i>Rhynchelytrum repens</i>	Natal red top
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Setaria pallide-fusca</i>	Red bristle grass
<i>Themeda triandra</i>	Redgrass

<i>Tagetes minuta</i> <i>Tragus racemosus</i> <i>Urochloa panicoides</i>	Khaki weed Large carrot-seed grass Herringbone grass
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WAARSKUWINGS

- Hanteer versigtig.
- Skadelik indien ingesluk.
- Matige vel en oogirritant.
- Stoor ongebruikte **BROMURON 100 GR** dig toegemaak in hierdie houer in 'n koel, goedgeventileerde plek weg van voedsel, voer, saad en ander landbouchemikalieë.
- Voorkom besoedeling van areas wat nie met **BROMURON 100 GR** behandel word nie.
- Bêre buite die bereik van kinders, diere en oningeligte persone.
- **Herbetredings interval:** Moet nie behandelde gebied binnegaan totdat die gespuite gedeelte droog is tensy tensy beskermende klere 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-, 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.

VOORSORGMAATREËLS

- Moenie onkruidodderstof inasem nie.
- Dra beskermende oorklere wanneer die produk gehanteer word. Was besoedelde klere daaglik.
- Vermyn kontak met die oë, vel en klere.

- Was met seep en water ná gebruik en toediening of ná toevallige kontak met die vel.
- Moenie eet, drink of rook terwyl die spuitmengsel aangemaak of toegedien word nie alvorens die hande en gesig nie eers deeglik gewas is nie.
- Verhoed die besoedeling van voedsel, voer, eetgerei en drinkwater.
- Moenie toedien waar afloop uit die behandelde area water sal besoedel nie en ook nie binne 10 meter van 'n permanente waterbron nie.
- **Vanweë BROMURON 100 GR se lang nawerking, kan plantegroei vir etlike jare benadeel word. Die produk moet dus nie op of binne 50 m van gewenste plante soos grasperke, beddings of bome (bv. windbreke en sierbome langs paaie) of op grondoppervlaktes waar hul wortels mag wees, of vanwaar die middel na hul wortels kan beweeg of gespoel kan word gebruik word nie, aangesien sulke plante gedood of ernstig beskadig kan word. Moenie op grond waar gevoelige plante binne die volgende vyf jaar geplant gaan word, gebruik nie.**
- Oor-dosering of enige gebruik nie in ooreenstemming met die gebruiksaanwysings op hierdie etiket nie, mag lei tot skade aan nie-teikenplante en/of die omgewing.
- Gooi die houer weg in 'n goedgekeurde stortingsterrein, vernietig in 'n plaagdoder verasser of verbrand op 'n veilige terrein waar daar nie gevaar van brandskade bestaan nie.

WEERSTANDSWAARSKUWING

Vir doeleindes van weerstandbestuur, is **BROMURON 100 GR** 'n HRAC groepkode C1+C2 onkruidodder. Enige bevolking onkruid kan sommige onkruid bevat wat natuurlik weerstandbiedend is teen **BROMURON 100 GR** en ander groepkode C1+C2 onkruidodders. Indien hierdie groepkode onkruidodders herhaaldelik toegedien word, kan die weerstandbiedende individue uiteindelik die bevolking oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **BROMURON 100 GR** of enige ander groepkode C1+C2 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, middels van verskillende onkruidodder groepkodes.
- Integreer chemiese middels en verbouingspraktyke in onkruidbeheerprogramme.

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 No 36 van 1947), om hierdie middel te gebruik op 'n wyse wat strydig is met die etiket.

- Bestudeer die gebruiksaanwysings deeglik voordat die produk toegedien word.
- **BROMURON 100 GR** moet voor- of verkieslik gedurende die aktiewe groeiperiode van onkruid toegedien word.
- Omdat **BROMURON 100 GR** deur die wortels van plante geabsorbeer word, is reën nodig nadat die produk toegedien is om die produk binne die wortelsone van teikenplante in te loog.
- **BROMURON 100 GR** verskaf voor- en na-opkom onkruidbeheer en is, vanweë sy lang nawerking, besonder geskik om behandelde areas onkruidvry te hou vir lang periodes.

TOEDIENINGSMETODE

Om akkurate toediening te verseker, moet daar verkieslik van 'n geskikte korrelstrooier, wat vooraf na behore gekalibreer is, gebruik gemaak word ten einde **BROMURON 100 GR** op 'n egalige wyse oor die teiken area te versprei.

Vermý toediening op gronde waarvan die organiese materiaalinhoud 20 % oorskrei.

TOEDIENINGSHOEVEELHEDE: Industriële en ander nie-gewas areas:

Probleem	BROMURON 100 GR dosis (kg/ha)	
	Grond tipe	
	Ligte grond: Minder as 20 % klei	Swaar grond: 20 – 45 % klei *
Eenjaar onkruid	45 kg/ha	60 kg/ha
Kombinasie van eenjaar- en meerjarige onkruid**	90 kg/ha	120 kg/ha
Instandhouding op persele waar onkruid reeds meganies of chemies verwyder is	60 kg/ha	90 kg/ha

* Raadpleeg die verskaffer vir behandeling van grond waarvan die klei-inhoud 45% oorskrei.

Om *Cynodon dactylon* (kweek) te beheer, gebruik 'n minimum van 120kg **BROMURON 100 GR / ha.

Nota:

- Op klein areas: Gebruik 45 – 120 g **BROMURON 100 GR** / 10m², afhangende van die klei-inhoud van die grond.
- Om behandelde persele onkruidvry te hou mag dit nodig wees om dit jaarliks, net voor of gedurende die groeiseisoen, persele te herbehandel met **BROMURON 100 GR** volgens voorskrif.
- Gebruik die hoër dosis op **Swaar grond** waar die jaarlikse reënval 600mm oorskrei of om die nawerking te verleng.

Voor-konstruksiebehandeling: Belangrik!

- **Gebruik slegs op nie-oes of industriële persele waar geen gewenste plante voorkom, of in die toekoms geplant gaan word nie.**
- Behandel die basis waarop plaveisel gelê gaan word met 135 kg **BROMURON 100 GR** / ha (135 g / 10 m²). Die produk moet verkieslik in die boonste 50 – 100 mm basismateriaal ingeloog word met water, waarna onkruidsaad eers kans moet kry om te ontkiem voordat die plaveisel gelê word.

LYS VAN ONKRUIDE WAT DEUR BROMURON 100 GR BEHEER WORD:

Wetenskaplike naam	Gewone naam
<i>Amaranthus</i> spp	Misbredie
<i>Aristida</i> spp	Steekgras
<i>Arctotheca calendula</i>	Soetgousblom
<i>Bidens</i> spp	Knapsekêrel
<i>Boerhavia erecta</i>	Regop Boerhavia
<i>Cenchrus</i> spp	Stekelgras
<i>Cynodon dactylon</i>	Kweekgras
<i>Cyperus esculentus</i>	Geeluintjies
<i>Digitaria monodactyla</i>	Vingergras
<i>Diheteropogon amplexans</i>	-
<i>Datura stramonium</i>	Olieboom
<i>Eragrostis curvula</i>	Oulandsgras
<i>Eleusine indica</i>	Jongosgras
<i>Erodium moschatum</i>	Turknael
<i>Flaveria bidentis</i>	Smeltersbossie
<i>Galinsoga parviflora</i>	Knopkruid
<i>Hyparrhenia hirta</i>	Dektamboekiegras
<i>Hypochoeris glabra</i>	Skaapslai
<i>Hordeum murinum</i>	Wildegars

<i>Inula graveolens</i>	Kamfer inula
<i>Lolium temulentum</i>	Drabok
<i>Pennisetum clandestinum</i>	Kikoejoe
<i>Portulaca oleracea</i>	Porslein
<i>Rhynchelytrum repens</i>	Natalse rooipluim
<i>Schkuhria pinnata</i>	Kleinkakiebos
<i>Setaria pallide-fusca</i>	Rooiborselgras
<i>Themeda triandra</i>	Rooigras
<i>Tagetes minuta</i>	Kakiebos
<i>Tragus racemosa</i>	Grootwortelsaadgras
<i>Urochloa panicoides</i>	Beesgras