

MONELO 90 WDG

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

GEBRUIKSAANWYSYNGS INGESLUIT
VERWYS NA BESONDERHEDE
SOOS OP HOUER / SAK GEDRUK

Lotnummer
Datum van vervaardiging

MONELO 90 WDG

HERBICIDE



Reg. No. L6755, Act/Wet No. 36 of/van 1947

1: 20/02/2001


A water dispersible granule herbicide for pre-emergence control of annual broadleaf weeds and certain grasses in crops as indicated as well as industrial and other non-crop areas as indicated.

'n Water-dispergeerbare korrel onkruidodder vir vooropkomsbeheer van die eenjarige breëblaaronkruid en sommige grasse in gewasse soos aangedui sowel as in industriële en ander nie-gewas areas.

HRAC HERBICIDE GROUP CODE	C1	HRAC ONKRUIDDODER GROEPPKODE
ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL		
Terbutylazine (triazine)	900 g/kg	Terbutielasien (triasien)

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

2kg



UN Number: 3077




DIRECTIONS FOR USE ENCLOSED
REFER TO DETAILS AS PRINTED
ON CONTAINER / BAG

Batch Number
Date of manufacture

WARNINGS

- Poisonous if swallowed.
- Store in a cool place.
- Store away from food, feed, fertilizer and other agricultural products.
- Keep out of reach of children, uninformed persons and animals.

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 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 inhale fumes or spray mist.
- Avoid skin and contact with eyes by wearing protective clothing when mixing the product.
- In case of accidental eye contact, flush with plenty of water and get medical attention if necessary.
- Wash with soap and water after use and accidental skin contact as well as contaminated clothing.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Do not mix and load within at least 15 m from boreholes, streams, rivers and dams.
- Do not apply within at least 15 m from boreholes, streams and rivers.
- Do not apply within 60 m of dams.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Destroy the empty container and do not use for any other purpose.

RESISTANCE WARNING

For resistance management, **Monelo 90 WDG** is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **Monelo 90 WDG** and other group code C1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **Monelo 90 WDG** or any other group code C1 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 **Monelo 90 WDG** not controlling resistant weeds. Do not apply **Monelo 90 WDG** alone in situations where weed resistance has been confirmed. Sub-standard application of **Monelo 90 WDG** or other group code E herbicides will lead to inferior weed control and may assist in development of herbicide resistance.

USE RESTRICTIONS

- Do not apply **Monelo 90 WDG** to stone fruit trees.
- Do not apply **Monelo 90 WDG** to apples, avocados, citrus, mangoes and vines within one year after transplanting. Do not treat young interplants in established vineyards and orchards.
- Do not apply **Monelo 90 WDG** to apples, avocados, citrus, mangoes and vines suffering from trace element deficiencies, or growing in alkaline soils or on poorly drained or shallow soils.

- **Monelo 90 WDG** has a relatively long residual activity in the soil and susceptible crops such as winter cereals, legumes and vegetables should not be planted on treated soil within 18 months after application of **Monelo 90 WDG**.
- Do not apply **Monelo 90 WDG** to any situation not mentioned in this instruction leaflet.
- Only apply **Monelo 90 WDG** using an accurate and safe application technique.
- If **Monelo 90 WDG** is used in a tank mix with other recommended herbicides, consideration should be given to the restrictions of those respective products.

DIRECTIONS FOR USE

Use only as directed

MIXING INSTRUCTIONS

Half-fill the spray tank with suitable water. Pre-mix the required quantity of **Monelo 90 WDG** in at least 10 l of spray water. Then add the pre-mixture to the water in the tank while agitating. Rinse the premixing bucket with water and pour into the spray tank. Finally, add the partner remedy as appropriate. Fill the spray tank to the desired volume. Agitate the mixture to ensure good mixing prior to application. When tank mixing **Monelo 90 WDG** with glyphosate such as **Bounty SL** or **Bounty 500 WSG** to control emerged weeds, it is recommended that **Boost-Up** or Power-up be added before either product is added to help overcome incompatibility. First add the quantity of **Boost-Up** or Power-up followed by the **Monelo 90 WDG** and finally the desired quantity of **Bounty**. Should tank mixtures with other agrochemicals be made, follow the respective manufacturers' label recommendations. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation as described above.

COMPATIBILITY

The compatibility of **Monelo 90 WDG** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.

Monelo 90 WDG is compatible with **Bounty 500 WSG** (L. 6698), **Bounty SL** (L. 7268), **Cyprex WP** (L. 7665) and Round-up formulations.

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application. Knapsack sprayers or tractor mounted boom sprayers may be used. A spray volume of 200 – 300 l/ha should be used for ground application and can be applied via flat fan type nozzles, preferably the low drift type to avoid fine droplets. **Constant agitation throughout the spray operation is essential.** Only clean water should be used. Rain is essential to leach the product into the root zone of the germinating weeds and therefore 10 – 15 mm of rain or irrigation is needed within 7 days of application to ensure optimum results. Where weeds have already established, a suitable post-emergence herbicide should be used as recommended below. **Monelo 90 WDG** should be applied only as a directed spray to the to the designated areas with care taken to avoid contact with leaves or green bark of desirable vegetation.

RECOMMENDATIONS

CROP	RATE/ha	REMARKS
Apples, Avocados, Citrus, Mangoes and Grapevines	1,5 – 2,2 kg/ha	For post-emergence control of broadleaf weeds and grasses add 2 – 4 kg/ha Bounty 500 WSG or 2,5 – 5,5 l/ha Bounty SL or 3 – 4 l/ha paraquat SL. Allow 14 days between pruning and application. The lower rate should be used on young 1 – 2 year old trees grown on sandy soils (<10 % clay).
<i>Eucalyptus spp.</i>	2,0 kg/ha	Temporary chlorosis of the lower leaves can be expected when heavy rains follow an application of Monelo 90 WDG on light soils.

Industrial and noncrop situations	6 – 12 kg/ha	For post-emergence control of broadleaf weeds and grasses add 4 – 6 kg/ha Bounty 500 WSG or 5,5 – 8,0 l/ha Bounty SL .
-----------------------------------	--------------	--

Remarks

- Simazine 90 WDG can be added to a tank mixture of **Monelo 90 WDG** and **Bounty 500 WSG** to increase the residual effect on grasses in apples, citrus and vines. On soils with less than 15 % clay, use 1,5 kg/ha **Monelo 90 WDG** plus 1,1 kg/ha simazine 90 WDG plus 2 kg/ha **Bounty 500 WSG**. On soils with more than 15 % clay, use 1,5 kg/ha **Monelo 90 WDG** plus 1,7 kg/ha simazine 90 WDG plus 2 kg/ha **Bounty 500 WSG**.

Maize	50 g/ha (1 sachet/ha) PLUS Solitaire PLUS Monelo 90 WDG @ 0,5 – 1,0 kg/ha	Apply in 200 – 400 l water / ha. Best weed control will be obtained when application is made to weeds growing actively under stress-free environmental conditions.
Citrus	50 g/ha (1 sachet/ha) PLUS Solitaire PLUS Monelo 90 WDG @ 1,5 – 2,2 kg/ha	Apply in 200 – 400 l water / ha. Best weed control will be obtained when application is made to weeds growing actively under stress-free environmental conditions. Only apply to citrus trees 1 year after transplanting.

- Situations with high organic matter or excessive dead plant material on the soil surface may reduce the length of residual control obtained. Where ash or coal dust is present (non-crop), residual control may not be adequate and reapplication may be necessary from time to time.
- When used in urban areas, do not exceed a rate of 6 kg/ha when trees or hedges line the street. In these cases, do not treat a strip wider than 500 mm under the trees along the verge line. Do not treat the entire area under the dripline of the trees so as to prevent injury by root uptake.
- Reduced residual control of shallower germinating weeds may occur where application of **Monelo 90 WDG** is made on soils with low organic matter and/or clay content is followed by heavy rain or irrigation shortly after application.
- Degree of pre-emergence weed control and duration of effect may vary, depending on weed species, environmental conditions and soil conditions.
- Weeds growing from rhizomes or rootstocks will not be controlled by this treatment. A suitable herbicide should be used to control such weeds.

WEEDS CONTROLLED BY MONELO 90 WDG (pre-emergence only):

Broadleaf weeds:

Amaranthys hybridus
Amaranthus thunbergii
Bidens bipinnata
Bidens pilosa
Chenopodium album
Chenopodium carinatum
Conyza albida
Galingsoga parviflora
Gisokia pharmaceoides
Medicago polymorpha
Oenothera stricta
Oxalis pes-caprae
Portulaca oleracea
Raphanus raphanistrum
Schkuhria pinnata
Stellaria media
Tagetes minuta

Common pigweed
Red pigweed
Spanish blackjack
Blackjack
White goosefoot
Green goosefoot
Tall fleabane
Gallant soldier
Gisokia
Bur clover
Evening primrose
Yellow sorrel
Purslane
Wild radish
Dwarf marigold
Chickweed
Khaki weed

Grasses:

Bromus catharticus
Digitaria sanguinalis
Lolium temulentum

Rescue grass
Crab finger-grass
Darnel (ryegrass)

ACKNOWLEDGEMENT OF TRADEMARKS:

Bounty SL (L. 7268)
Bounty 500 WSG (L. 6698)

Meridian Agrochemical Company (Pty) Ltd
Meridian Agrochemical Company (Pty) Ltd

WAARSKUWINGS

- Giftig indien ingesluk.
- Bêre after slot-en-grendel in 'n koel plek.
- Bêre weg van voedsel, voer, kunsmis en ander landbouprodukte.
- Hou buite bereik van kinders, oningeligte persone en diere.

Alhoewel 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 onkruiddoder sowel as die 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 spuitnewel inasem nie.
- Vermoed kontak met die vel en oë deur beskermende oorklere te dra wanneer die produk gemeng en gespuit word.
- Was na gebruik of toevallige velkontak met seep en water. Was besoedelde klere na gebruik.
- Dra beskermende oorklere gedurende toediening van die spuitmengsel.
- Moet nie eet, drink of rook tydens vermenging of toediening van die produk of voordat hande en gesig gewas is nie.
- Voorkom die wegdrywing van spuitnewel na ander gewasse, weiveld, riviere, damme en plekke wat nie onder behandeling is nie.
- Maak toedieningsapparaat skoon na gebruik. Uitspoelwater moet nie gewasse, weiveld, riviere, damme en boorgate besoedel nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.
- Spoel die leë houder **drie keer** uit op die volgende manier: Keer die leë houder om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n drup verminder het. Spoel die leë houder daarna driekeer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die inhoud van die houder. Gooi die spoelwater by die inhoud van die spuittenk voordat die houder op die voorgeskrewe wyse vernietig word.
- Vernietig die leë houder, moet vir geen ander doel gebruik nie.

WEERSTANDSWAARSKUWING

Vir weerstandsbetuur is **Monelo 90 WDG** 'n groepkode C1 onkruiddoder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **Monelo 90 WDG**, of enige ander groepkode C1 onkruiddoder het. Indien hierdie onkruiddoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **Monelo 90 WDG** of enige ander groepkode C1 onkruiddoder beheer word nie.

Om weerstand teen onkruiddoders te vertraag:

- Vermoed die eksklusiewe herhaaldelike gebruik van onkruiddoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van, produkte in verskillende onkruiddodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.

Vir spesifieke inligting oor weerstandsbetuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSBEPERKINGS

- Moet nie **Monelo 90 WDG** op steenvrugtebome toedien nie.
- Moet nie **Monelo 90 WDG** op appels, avokado's, sitrus, mango's en wingerde binne een jaar na uitplant toedien nie. Vermy die behandeling van jong ingeplante bome/stokke in gevestigde boorde/wingerde.
- Moet nie **Monelo 90 WDG** toedien op appels, avokado's, sitrus, mango's en wingerde wat aan spoorelementekorte onderhewig is, of in alkaliese gronde, of in swak gedreineerde of vlak gronde groei nie.
- **Monelo 90 WDG** het 'n relatiewe lang nawerking in die grond en gevoelige gewasse soos groente, peulplante en wintergraan moet nie geplant word op gronde wat minder as 18 maande vantevore met **Monelo 90 WDG** behandel is nie.
- Moet nie **Monelo 90 WDG** op enige omstandigheid toedien wat nie op hierdie etiket verskyn nie.
- Dien **Monelo 90 WDG** slegs met akkurate en veilige toedieningsmetodes toe.
- As **Monelo 90 WDG** met ander middels in tenkmengsels gebruik word, moet die gebruiksaanwysings van daardie betrokke produkte gevolg word.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

MENGINSTRUKSIES

Maak die spuittenk halfvol met geskikte water. Meng die benodigde hoeveelheid **Monelo 90 WDG** vooraf met ten minste 10 l spuitwater. Voeg die voormengsel in die spuittenk terwyl konstante roering plaasvind. Spoel die mengemmer uit met water en voeg die spoelwater in die spuittenk terwyl water aanhoudend geroer word. Maak die spuittenk tot by die finale volume vol. Roer goed om vermenging te verseker voordat die mengsel toegedien word. As tenkmengsels met ander middels gemaak word, moet die betrokke vervaardiger se etiket gevolg word. Wanneer tenkmengsels met glifosaat soos **Bounty 500 WSG** of **Bounty SL** gemaak word om ontkiemde onkruid te beheer word aanbeveel om **Boost-Up** of Power-up oplossing by te voeg voordat die ander produkte bygegooi word. Gooi eerstens die **Boost-Up** of Powerup in die tenk, gevolg deur die **Monelo 90 WDG** en voeg laastens die aanbevele hoeveelheid **Bounty 500 WSG** of **Bounty SL** by. **Die tenkmengsel moet onmiddellik uitgespuit word en nie toegelaat word om oornag in die spuittenk te staan nie.** Die spuittoerusting moet aan die einde van toediening deeglik uitgewas word.

VERENIGBAARHEID

Die verenigbaarheid van **Monelo 90 WDG** met ander produkte hang van die formulering van die betrokke produkte af, asook van die kwaliteit van die spuitwater. Deurdat formulering van tyd tot tyd verander, word dit aanbeveel om 'n fisiese verenigbaarheidstoets uit te voer voordat die tenkmengsel gemaak word. **Monelo 90 WDG** is verenigbaar met **Bounty 500 WSG** (L. 6698), **Bounty SL** (L. 7268) en **Cyprex WP** (L. XXXX).

TOEDIENINGSMETODES

Maak seker dat die spuittoerusting korrek gekalibreer is en gereeld gedurende die toediening nagegaan word om seker te maak dat die toediening egalig en akkuraat is. Rugsakspuite of 'n konvensionele spuitbalk kan gebruik word. 'n Totale spuitvolume van 200-300 l/ha moet gebruik word en kan toegedien word met platwaaierspuitpunte, verkieslik die lae dryf tipe om fyn druppels te verhoed. **Die mengsel moet aanhoudend en deeglik geroer word tydens toediening.** Gebruik net skoon water vir toediening. Reënval kort na toediening is noodsaaklik om die onkruiddoder in die bo-grondlae in te loog waar die ontkiemende onkruid voorkom en daarvoor is 10-15 mm reën nodig binne 7-10 dae na toediening om optimale resultate te verseker. **Monelo 90 WDG** moet slegs as 'n gerigte bespuiting aangewend word en voorsorg moet getref word om nie kontak met blare en groenbas van gewenste plantegroei te maak nie.

AANBEVELINGS

GEWAS	DOSIS/ha	OPMERKINGS
Appels, Avokado's, Sitrus, Mango's en Wingerde	1.5 – 2.2 kg/ha	Vir na-opkoms beheer van breëblaaronkruid en grasse, voeg 2 – 4 kg/ha Bounty 500 WSG of 2,5 – 5,5 l/ha Bounty SL of 3 – 4 l/ha paraquat SL by. Laat 14 dae tussen snoei en bespuiting toe. Die laer dosis moet op jong 1 – 2 jaar oue boompies op sanderige gronde (<10 % klei) gebruik word.

<i>Eucalyptus spp.</i>	2.0 kg/ha	Die onderste blare kan op ligte gronde tydelike vergeling toon as toediening van Monelo 90 WDG deur swaar reën opgevolg word.
Industriële en nie-verboude areas	6 – 12 kg/ha	Vir na-opkomebehandeling van breëblaaronkruid en grasse, voeg 4 – 6 kg/ha Bounty 500 WSG of 5,5 – 8,0 l/ha Bounty SL by.

Opmerkings

- Simazine 90 WDG kan met tenkengsels van **Monelo 90 WDG** en **Bounty 500 WSG** of **Bounty SL** gemeng word om die residuele effek op grasse in appels, sitrus en wingerde te verbeter. Op gronde met minder as 15 % klei, gebruik 1.5 kg/ha **Monelo 90 WDG** plus 1,1 kg/ha Simazine 90 WDG plus 2 kg/ha **Bounty 500 WSG**. Op gronde met meer as 15 % klei, gebruik 1,5 kg/ha **Monelo 90 WDG** plus 1.7 kg/ha Simazine 90 WDG plus 2 kg/ha **Bounty 500 WDG**.

GEWAS	DOSIS/ha	OPMERKINGS
MIELIES	50 g/ha (1 sakkie/ha) PLUS Solitaire PLUS Monelo 90 WDG @ 0.5 – 1.0 kg/ha	Dien in 200 – 400 l water/ha toe. Die beste onkruidbeheer sal verkry word wanneer toedienings op aktief groeiende onkruid onder stresvrye omgewingstoestande gedoen word.
SITRUS	50 g/ha (1 sakkie/ha) PLUS Solitaire PLUS Monelo 90 WDG @ 1.5 – 2.2 kg/ha	Dien in 200 – 400 l water/ha toe. Die beste onkruidbeheer sal verkry word wanneer toedienings op aktief groeiende onkruid onder stresvrye omgewingstoestande gedoen word. Dien slegs na 1 jaar toe vandat sitrusbome uitgeplant is.

- Toestande waar daar 'n hoë inhoud van organiese materiaal of dooie plantmateriaal op die grondoppervlak voorkom, mag dit die residuele (langtermyn) effek verminder. Waar as of koolstof teenwoordig is (industriël), kan die residuele beheer verminder en her-toediening kan van tyd tot tyd nodig wees.
- Wanneer **Monelo 90 WDG** in geboude areas gebruik word, moet die dosis van 6 kg/ha nie oorskry word wanneer bome of heiningplante aan die straat grens nie. In dié gevalle moet 'n strook nie wyer as 500 mm onder die bome behandel word nie. Moet nie die hele area onder die druplyn van die bome behandel nie, om skade deur wortelopname te vermy.
- Verminderde residuele beheer van vlak onkiemende onkruid kan verwag word as **Monelo 90 WDG** toediening op gronde met 'n lae organiese materiaal en/of klei-inhoud gevolg word deur swaar besproeiing of reën. Op dieselfde manier, mag onkruid wat laat in die seisoen ontkiem, nie deur **Monelo 90 WDG** beheer word as dit vroeg in die seisoen toegedien word nie.
- Die mate van voor-opkoms onkruidbeheer en langtermyn beheer kan wissel afhangend van onkruidtipe, toedieningshoeveelhede, omgewingstoestande en grondtoestande.
- Onkruid wat groei vanuit risome en wortelstokke sal nie deur hierdie behandeling beheer word nie. 'n Geskikte onkruiddoder moet hiervoor gebruik word.

ONKRUIDE WAT DEUR MONELO 90 WDG BEHEER SAL WORD (net voor-opkoms) :

Breëblaaronkruid

Amaranthus hybridus
Amaranthus thunbergii
Bidens bipinnata
Bidens pilosa
Chenopodium album
Chenopodium carinatum
Conyza albida
Galingsoga parviflora
Gisekia pharnaceoides

Gewone misbredie
Rooimisbredie
Spaanse knapsekêrel
Knapsekêrel
Withondebossie
Groenhondebossie
Vaalskraalhans
Knopkruid
Gisekia

Medicago polymorpha
Oenothera sticta
Oxalis pes-caprae
Portulaca oleracea
Raphanus raphanistrum
Schkuhria pinnata
Stellaria media
Tagetes minuta

Klitsklawer
Nagblom
Geelsuring
Porslein
Ramenas
Kleinkakiebos
Sterremuur
Kakiebos

Grasse

Bromos catharticus
Digitaria sanguinalis
Lolium temulentum

Reddingsgras
Kruisvingergras
Drabok (raaigras)

ERKENNING VAN HANDELSMERKE:

Bounty SL (L. 7268)
Bounty 500 WSG (L. 6698)

Meridian Agrochemical Company (Edms.) Bpk.
Meridian Agrochemical Company (Edms.) Bpk.