

WARNINGS

- Handle with utmost care and under supervision.
- Can be highly toxic to grazing stock and wildlife.
- Stock or wildlife must not be allowed to graze treated areas, until at least one month has passed after treatment.
- Do not treat prickly pear during dry periods when no other source of fresh food is available (usually June to September).
- Prevent pollution of water sources that are sterilized for drinking.
- Can be toxic to bees.
- Harmful if swallowed, inhaled or absorbed through the skin.
- Irritating to skin and eyes.
- Store in a cool dry place away from feeds, seed, fertilizers and other agricultural chemicals.
- Keep unused **FARMAG MSMA 720 SL** in this container, tightly closed, locked up 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 efficacious under all conditions, because the action and effect thereof, may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with substances not indicated on the label and the occurrences of resistance of the weed 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, and 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 the occurrence of conditions which could not have been foreseen, in terms of the registration. Consult the suppliers in the event of any uncertainty.

PRECAUTIONS

- Do not eat, drink or smoke whilst handling the product.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Wear rubber gloves and face shield when handling the concentrate. If you get it in your eyes, flush it out at once. If you get in on your skin, wash it off at once. If you spill it on your clothes, change and wash them.
- 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.
- While spraying, avoid contact with the spray as much as you can. Avoid spray drift onto other crops, grazing rivers or dams.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing rivers or dams.
- Destroy empty container and do not use for any other purpose.
- Change and wash your work clothes. Wash yourself.

Symptoms of human poisoning:

Headache, vomiting, diarrhea, dizziness, stupor, convulsions and general paralysis.

First aid treatment:

Eye contact: Flush eyes with plenty of water. If irritation persists, seek medical help.

Skin contact: Wash contaminated body area with plenty of soap and cold water.

Ingestion: Make the person vomit and seek medical help.

Note to physician:

If accidental ingestion occurs, the stomach should be emptied by vomiting and lavage with water, followed by a saline cathartic such as sodium sulphate. BAL (Dimercaprol) is an antidote. It should be administered iv. At 3mg/kg body mass.

Resistance warning:

For resistance management, **FARMAG MSMA 720 SL** is a group code Z herbicide. Any weed population may contain individuals naturally resistant to **FARMAG MSMA 720 SL** and other group code Z herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **FARMAG MSMA 720 SL** or any other group code Z herbicide.

To delay weed 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 the control methods (chemical, cultural, biological) into weed control programs.

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



FARMAG MSMA 720 SL

Reg No/ Nr L5662 Act No/ Wet Nr 36/1947

A selective systemic post-emergence herbicide for the control of *Rottboellia exaltata*, annual grasses, nutsedges and certain broadleaf weeds in cotton, lawns and sugarcane and for total weed control in industrial areas.

'n Selektiewe, sistemiese naopkoms-onkruidodder vir die beheer van *Rottboellia exaltata*, eenjarige grasse, uintjies en sommige breeblaar onkruid in katoen, grasperke, en suikerriet en vir die algehele onkruid beheer in industriële gebiede.

HRAC: HERBICIDE GROUP CODE

Z

HRAC: ONKRUIDDODERGROEPKODE

ACTIVE INGREDIENT/AKTIEWE BESTANDEEL:

M.S.M.A (organic arsenical).....720 g/l.....FARMAG MSMA 720 SL (organise arseen)

Manufacture Date:
Vervaardigingsdatum:

Batch No.:
Lotnommer:

NET MASS/ INHOUD

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

REGISTRATION HOLDER/REGISTRASIEHOUER:

Cedar Falls Properties 130 (Pty) Ltd.

Co. Reg.No. 2006/031383/07

61 Marshall Drive, Old Mill Industrial Park, Mount Edgecombe, South Africa • Tel. (031) 003 3486



HARMFUL
SKADELIK



DIRECTIONS FOR USE: USE ONLY AS DIRECTED

1. **FARMAG MSMA 720 SL** contains a surfactant (wetting agent) in a concentration that will provide for best results. It is not necessary to add additional surfactants to the spray tank.
2. **FARMAG MSMA 720 SL** should be supplied by means of a tractor mounted boom sprayer or knapsack sprayer, equipped with Teejet-type flat fan nozzles or spraying systems TK5 type flood jets, which should deliver 300 - 500 ℓ solution per hectare (3-5ℓ / 100 m²). Efficient agitation of the spray mixture is essential.
3. Ensure that application equipment is correctly calibrated and that only clean water is used. A uniform and even distribution of the spray material and thorough wetting of the weed foliage is essential.
4. Apply during warm, sunny weather when weeds are in an active stage of growth. (Best results are obtained at air temperatures above 21°C).
5. Do not apply if the weeds are wet or if rain is expected within 24 hours after application, as the effects may be diminished.

SUGAR CANE

When used in combination, **FARMAG MSMA 720 SL** and the respective additional herbicide must be thoroughly mixed in separate containers. Fill the spray tank with half the required amount of water and with the pump and agitator operating add the recommended amount of premixed Diuron 800SC or Ametryn 500 SC. Refer to the respective tables for the correct mixing procedure of Diuron 800SC or Ametryn 500 SC.

FARMAG MSMA 720 SL should be premixed in 15 to 25 ℓ of water in a clear open headed bucket. This premix should be added to the spray tank after the Diuron 800SC (L5663) or Ametryn 500 SC (L3342). Do not store spray in tank overnight.

COTTON

Avoid spraying cotton foliage by using a flood jet nozzle at low pressure mounted on a drop arm or skid. The use of shields running on either side of the crop row is recommended. Foliage of cotton plants which comes in contact with the spray may turn red, but should develop normally. Avoid spray contact with the growing points of the cotton plant.

LAWNS

Do not use on kikuyu or swazi grasses as severe scorching may ensue. Do not treat lawns until they have been mown three times. Under hot, dry conditions, the treated grass may suffer temporary yellowing. These symptoms will disappear with mowing. Apply to young (seedlings) actively growing weeds.

USE	DOSAGE	REMARKS
SUGAR CANE	6 ℓ/ha or 4 ℓ/ha PLUS 3 ℓ/ha Diuron 800SC (L5663) or 4 ℓ/ha PLUS 3-4 ℓ/ha Ametryn 500SC (L3342)	Apply as a directed late post-emergent inter- row spray over the weeds. The treatment can cause cane scorch and the danger of this occurring will be minimized if the sprays are directed so as to avoid as far as possible wetting the cane leaves. Use higher rates and mixtures for severe weed infestation or less susceptible weed stages
COTTON	3 ℓ / ha	Use 300 ℓ of water/ha as a directed spray when cotton is 8 cm high up to first bloom. Should regrowth occur a second application may be necessary at the same rate 1-3 weeks after the first. Do not apply FARMAG MSMA 720 SL more than twice a season.
LAWNS (<i>Cynodon dactylon</i> only)	70 mℓ / 10 ℓ water	Lawns should be mowed for four days prior to treatment. Apply 1 ℓ of mixture per 10 m ² lawn. Repeat if necessary at 21 day intervals.
INDUSTRIAL	6 ℓ/ha (60 mℓ / 100 m ²)	Apply as an overall spray to remove difficult to control grasses and certain broadleaf weeds along roadsides, railway lines and other industrial sites where weeds pose a hazard to safety and health. Apply in sufficient water to thoroughly wet all foliage.

WEEDS CONTROLLED BY FARMAG MSMA 720 SL

YOUNG BROADLEAF WEEDS

<i>Acanthospermum hispidum</i>	Upright starbur
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Bidens pilosa</i>	Common blackjack
<i>Commelin benghalensis</i>	Wandering jew
<i>Portulaca oleracea</i>	Common purslane

SEDGES

<i>Cyperus esculentus</i>	Yellow nutgrass
<i>Cyperus rotundus</i>	Purple nutgrass (lawn and turf only)

GRASSES

<i>Digitaria sanguinalis</i>	Crab fingergrass
<i>Digitaria diductyla</i>	Swaziland fingergrass
<i>Eleusine indica</i>	Goose grass
<i>Panicum schinzii</i>	Vlei panicum
<i>Panicum maximum</i>	Bush buffalo grass
<i>Sorghum verticilliflorum</i>	Common wild sorghum
<i>Stenotaphrum secundatum</i>	Augustine grass
<i>Urochloa panicoides</i>	Garden urochloa
<i>Rottboellia exaltata</i>	Guinea-fowl grass

NOTE:

For maximum effect, weeds should be spray at the specified growth stages

<i>Rottboellia exaltata</i>	= 100 – 500 mm
<i>Panicum</i> spp, <i>Digitaria</i> spp and <i>Sorghum verticilliflorum</i>	= 100 – 300 mm
<i>Eleusine</i> spp and <i>Urochloa</i>	= less than 30 mm
<i>Panicoides</i> and <i>Cyperus</i> spp	= pre-flowering to flowering

A repeat application may be necessary when chlorotic nutsedge plants show signs of greening up after the first application.

WAARSKUWINGS:

- Hanteer produk uiters versigtig en onder toesig.
- **FARMAG MSMA 720 SL** kan hoogs toksies wees vir vee en wild.
- Die gebruiker word derhalwe gewaarsku dat vee (of wild) nie toegelaat moet word om behandelde areas te bewei vir ten minste twee maande na behandeling van litjies- en ander kaktusse en twee maande na behandeling van turksvye verloop het nie.
- Moet nie turksvye behandel gedurende droë periodes wanneer geen ander bron van vars voedsel beskikbaar is nie. (Gewoonlik Junie tot September).
- Voorkom besoedeling van waterbronne wat as suipplekke gebruik word.
- Kan giftig wees vir bye.
- Skadelik indien ingeneem, ingeasem of deur die vel geabsorbeer word.
- Irriterend vir vel en oë.
- Berg in 'n koel plek, weg van voedsel, voer, saad en ander landboumiddels.
- Berg ongebruikte **FARMAG MSMA 720 SL** in hierdie houër, dig toegemaak en weggesluit 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 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 van die betrokke middel 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 in die geval van enige onsekerheid.

VOORSORGMATREËLS:

- Moet nie eet, drink of rook terwyl die produk hanteer word nie.
- Vermoedlik besoedeling van voedsel, voer, drinkwater en eetgerei.
- Dra rubberhandskoene en gesigskerm wanneer die konsentraat hanteer word. Indien dit in u oë kom, spoel onmiddellik uit. Indien dit op u vel kom, was dit dadelik af. Indien dit op u klere mors, trek uit en was dit.
- Keer die leë houër om oor die spuit- of mengtenk en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houër daarna driekeer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die inhoud van die houër. Gooi die spoelwater by die inhoud van die spuittenk voordat die houër vernietig word.
- Vermoedlik kontak met die spuitstof sover moontlik tydens toediening.
- Vermoedlik oorwaai van spuitnewel na ander gewasse, weiding, riviere of damme.
- Maak toediener deeglik skoon na gebruik en gooi waswater waar dit nie gewasse, weiding, riviere of damme sal besoedel nie.
- Vernietig leë houër en moet dit nie vir enige ander doel gebruik nie.
- Trek werksklere uit en was dit. Was uself.

Simptome van menslike vergiftiging:

Hoofpyn, braking, diaree, duiseligheid, bedwelming, stuiptrekkings en verlamming.

Noodhulpbehandeling:

Oogkontak: Spoel oë met baie water. Indien irritasie voortduur, kry mediese hulp.

Velkontak: Was besoedelde liggaamsdele met baie seep en koue water.

Inname: Veroorsaak braking en kry mediese hulp.

Nota aan geneesheer:

Indien toevallige inname voorkom, maak die maag leeg deur braking en uitspoeling met water gevolg deur 'n saline purgeermiddel soos natriumsulfaat. BAL (Dimercaprol) is 'n teenmiddel. Dit moet iv. toegedien word teen 3 mg / kg liggaamsmassa.

Weerstandswaarskuwing:

FARMAG MSMA 720 SL is 'n groepkode Z onkruiddoder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **FARMAG MSMA 720 SL** of enige ander groepkode Z onkruidodders het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruidde sal waarskynlik nie deur **FARMAG MSMA 720 SL** of enige ander groepkode Z onkruiddoder beheer word nie.

Om weerstand teen onkruidodders te verhoog:

- Vermoed die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groeikode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruidoddergroeikodes.
 - Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidodderprogramme.
- Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.

1. **FARMAG MSMA 720 SL** bevat 'n benatter in 'n verhouding wat die beste resultate sal lewer. Dit is daarom nie nodig om enige bykomende benattingsmiddel by die spuitmengsel te voeg nie.
2. **FARMAG MSMA 720 SL** kan toegedien word d.m.v. 'n trekkegermonteerde balkspuit of rugsakspuit wat toegerus is met Tee-jet spuitstukke met waaiertipe spuitneus of Spraying Systems TK5 spuitneuse. Dit moet in staat wees om 300 - 500 ℓ spuitmengsel / ha (3 - 5 ℓ / 100 m²) te lewer. Doeltreffende en deeglike roering van die spuitmengsel is noodsaaklik.
3. Maak seker dat die toedieningsapparaat korrek gekalibreer is en gebruik slegs skoon water. 'n Eenvormige en eweredige verspreiding van die spuitstof is noodsaaklik asook goeie benutting van die blare.
4. Dien toe tydens warm, sonnige weer wanneer die onkruid in 'n jong en aktiefgroeiende stadium is. (Die beste resultate word verkry wanneer die temperatuur hoër as 21 ° C is).
5. Moenie toedien wanneer die onkruid nat is, of wanneer reën binne 24 uur na toediening verwag word nie, aangesien dit die werking van die onkruidodder mag verlaag.

Suikerriet:

Wanneer **FARMAG MSMA 720 SL** in 'n tenkmengsel gebruik word, moet die **FARMAG MSMA 720 SL** en die betrokke bykomende onkruidodder deeglik vooraf met water gemeng word in aparte houers. Maak die spuittenk halfvol met skoon water met die pomp en roerder aan en voeg die voorafgemengde diuron of ametriën in die spuittenk.

Verwys na die diuron- of ametriën-etiket vir die korrekte vermengingsprosedure. **FARMAG MSMA 720 SL** moet vooraf met 15 - 25 ℓ water in 'n skoon emmer gemeng word. Voeg hierdie mengsel dan in die spuittenk na die diuron of ametriën. Vul die tenk verder met water en meng deeglik voor gebruik. Moenie die mengsel oornag in die spuittenk laat staan nie.

Katoen:

Vermoed kontak van katoenlower met die spuitmengsel deur van 'n vloedsputpunt met valarms teen 'n lae druk gebruik te maak. Beste resultate word egter verkry deur die spuitpunte op valarms of sleeparms te monteer. Die gebruik van skerms weerskante van die rye word sterk aanbeveel. Katoenblare wat in kontak met die spuitmengsel kom sal 'n rooi kleur aanneem maar sal later normaal ontwikkel. Vermoed kontak van die spuitmengsel op die groeipunte van die katoenplant.

Grasperke:

Moenie toedien op kikuyu- of swazi-gras nie aangesien ernstige brandskade mag voorkom. Moenie nuutgeplante grasperke behandel voordat hulle driekeer gesny is nie. Onder warm, droë toestande mag grasperke na toediening tekens van vergeling toon, maar hierdie simptome verdwyn nadat die grasperk gesny is. Dien toe wanneer jong (saailinge) onkruid aktief groei.

GEBRUIK	DOSIS	OPMERKINGS
Suikerriet	6 ℓ /ha OF 4 ℓ /ha plus 3 ℓ /ha Dluron 800 SC OF 4 ℓ /ha plus 3 - 4 ℓ /ha Ametrien 500 SC	Dien toe as 'n gerigte tussenry bespuiting nadat die onkruid bo die grond verskyn het. Die behandeling kan die suikerriet laat skroei en dit sal help indien die bespuiting so gedoen word dat die blare nie nat word nie. Gebruik die hoër dosis en mengsels vir ernstige onkruidinfestasies of vir minder vatbare onkruidstadiums.
Katoen	3 ℓ /ha	Dien toe in 300 ℓ water/ha as 'n gerigte bespuiting wanneer die katoen 8 cm hoog is tot by eerste blom. Indien hergroei voorkom kan 'n tweede bespuiting toegedien word teen dieselfde toedieningshoeveelheid 1 - 3 weke na die eerste toediening. Moenie FARMAG MSMA 720 SL meer as 2 keer gedurende dieselfde seisoen toedien nie.
Grasperke (Slegs <i>Cynodon dactylon</i>)	70 ml /10 ℓ water	Grasperke moet nie vir 4 dae voor toediening gesny word nie. Dien 1 ℓ van die spuitmengsel toe vir elke 10 m ² grasperk. Indien nodig herhaal met 21 dae tussenposes.
Industriële gebruik	6 ℓ /ha (60 ml /100 m ²)	Dien as 'n algehele bespuiting toe om moeilik beheerbare grasse en sekere breëblaaronkruid langs spoorlyne, paaie en ander industriële gebiede te beheer waar onkruid 'n gevaar inhou vir veiligheid en gesondheid. Dien toe in voldoende water om goeie benutting van die blare te kry.

ONKRUIDE WAT DEUR FARMAG MSMA 720 SL BEHEER WORD

<i>Acanthospermum hispidum</i>	Regopsterkits
<i>Amaranthus hybridus</i>	Kaapse misbredie
<i>Bidens bipinnata</i>	Spaanse knapsekêrel
<i>Bidens pilosa</i>	Gewone knapsekêrel
<i>Commelin benghalensis</i>	Wandelende jood
<i>Portulaca oleracea</i>	Porslein

UIN TJIES

<i>Cyperus esculentus</i>	Geeluintjie
<i>Cyperus rotundus</i>	Hooiuintjie (slegs op grasperke en grasbane)

GRASSE

<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Digitaria diductyla</i>	Swazilandvingergras
<i>Eleusine indica</i>	Jongosgras
<i>Panicum schinzii</i>	Vlei buffelsgras
<i>Panicum maximum</i>	Gewone buffelsgras
<i>Sorghum verticilliflorum</i>	Gewone wildesorghum
<i>Stenotaphrum secundatum</i>	Rivierkweek
<i>Urochloa panicoides</i>	Tuinurochloa
<i>Rottboellia exaltata</i>	Tarantaalgras

LET WEL:

Vir die beste resultate, moet onkruid op die volgende groeistadiums gespuit word:

<i>Rottboellia exaltata</i>	= 100 – 500 mm
<i>Panicum</i> spp, <i>Digitaria</i> spp en <i>Sorghum verticilliflorum</i>	= 100 – 300 mm
<i>Eleusine</i> spp en <i>Urochloa</i>	= minder as 30 mm
<i>Panicoides</i> en <i>Cyperus</i> spp	= voor-blom tot blomstadium

Herbespuiting mag nodig wees op behandelde uintjieplante wat weer begin groen word na die eerste toediening.







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