



BENTA 480 SL

Reg. No. L9564, Act No. 36 of 1947 | Reg. Nr. L9564, Wet Nr. 36 van 1947

A water soluble selective contact herbicide for the post-emergent control of certain broadleaf weeds and yellow nutsedge in crops as listed.

'n Wateroplosbare selektiewe kontak onkruiddoder vir die na opkoms beheer van sekere breëblaaronkruid en geeluintjies in gewasse soos gelys.

HERBICIDE GROUP CODE C3

ACTIVE INGREDIENT

Bendioxide (thiadiazine) 480 g/l

Registered by | Geregistreer deur

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

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ONKRUIDDODER GROEPKODE C3

AKTIEWE BESTANDDEEL

Bendioksied (tiadiasien) 480 g/l

BATCH NO. LOT NR.	
EXPIRY DATE VERVAL DATUM	

NET CONTENTS /
NETTO INHOUD

5 l

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CAUTION
VERSIGTIG



WARNINGS

- Harmful if swallowed.
- Keep out of reach of children, uninformed persons and animals.
- May cause irritation of the skin or eyes.
- Store in the original container in a cool place under lock and key, away from food, feed, fertiliser and seed.
- The use of "BENTA 480 SL" is not recommended for use on leguminous crops where an organophosphate insecticide was applied at planting. This combination may cause injury to the crop.
- Re-entry interval: Do not enter the treated field until the 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 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 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 in the event of any uncertainty.

PRECAUTIONS

- Do not inhale fumes or spray mist.
- Wear protective clothing when handling the concentrate (face shield, rubber boots and gloves).
- Avoid contact with the skin and eyes.
- Wash skin with soap and water after use or in the case of accidental skin contact.
- Wash any contaminated clothing before re-use.
- Flush the eyes with clean water in the case of accidental eye contact.
- Do not eat, drink or smoke while mixing or applying or before washing hands and face and change of clothing.
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Prevent the drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Do not apply near or onto desirable plants or trees, or on areas where their roots may extend, or in locations where the product may be washed or moved into contact with their roots.
- Rinse the empty 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 disposing of the container by perforation and flattening. Never use the container for any other purpose.
- Clean the applicator thoroughly after use and dispose of the wash water where it will not contaminate crops, grazing, rivers or dams.

RESISTANCE WARNING:

For resistance management "BENTA 480 SL" is a group code C3 herbicide. Any weed population may contain individuals naturally resistant to "BENTA 480 SL" and other group code C3 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by "BENTA 480 SL" or any other group code C3 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.

DIRECTIONS FOR USE: Use only as directed

USE RESTRICTIONS:

- Do not apply "BENTA 480 SL" during cold conditions (or if such conditions are expected), or if frost is likely or expected to occur, and do not apply when the crop and weeds are under stress (drought, heat, waterlogging).

MIXING INSTRUCTIONS:

"Half fill the spray tank with water, add the required amount of "BENTA 480 SL", and then fill the spray tank to the desired volume. Ensure agitation of the spray mixture during mixing and spraying.

APPLICATION INSTRUCTIONS:

- Apply "BENTA 480 SL" to young and actively growing weeds as an early post-emergence application.
- Ensure complete and thorough coverage of the weeds with the spray mixture.
- The effectiveness of "BENTA 480 SL" may be adversely affected by rainfall or irrigation within the first 8 hours following application of the spray mixture.
- A minimum water volume of 300 ℓ water per hectare should be used to apply "BENTA 480 SL".
- Ensure that the application equipment used is accurately calibrated.

NOTE A: Important for the control of broadleaf weeds

- "BENTA 480 SL" has little or no residual activity. A repeat application may be necessary for the control of weeds germinating after the first treatment.
- Favourable growth conditions are important for effective weed control. Stress conditions (drought, heat, waterlogging) before, during or after application will adversely affect weed control.

NOTE B: Recommendations for the control of yellow nutsedge (*Cyperus esculentus*)

- Favourable growth conditions before and during application are of importance for the control of germinated yellow nutsedge. These favourable conditions include adequate soil moisture for optimum plant growth and warm, humid weather (relative humidity ≥ 65 %). At the time of application, the yellow nutsedge plants should be beyond the 4-leaf stage.
- "BENTA 480 SL" has little or no residual activity. A repeat application may be necessary for the control of untreated late germinating yellow nutsedge.
- Under conditions which are less favourable, yellow nutsedge will only be suppressed and re-growth may occur. A repeat application of "BENTA 480 SL" may then be necessary 7 to 10 days after the first application.
- Apply a spray mixture (1 %) of 1.0 ℓ "BENTA 480 SL" in 100 ℓ water as a spot treatment, provided that the conditions are favourable, as described above. Ensure thorough wetting of the plants, however do not exceed the recommended dosage rates listed in the **APPLICATION TABLE**.
- Apply a minimum of 3.0 ℓ "BENTA 480 SL" per hectare in a water volume of not less than 300 ℓ water per hectare. Increase the rate to 4.0 ℓ "BENTA 480 SL" per hectare on dense stands of yellow nutsedge in maize, grain sorghum and groundnuts. Extreme cases will require an application rate of 5.0 ℓ "BENTA 480 SL" per hectare in 500 ℓ water, as well as the use of a suitable wetting additive according to label instructions.
- "BENTA 480 SL" will not control yellow nutsedge under adverse conditions such as drought, cold weather, dry and windy conditions, and low air humidity.

APPLICATION TABLE:

CROP AND WEED	DOSAGE RATE (ℓ PER HA)	REMARKS
BEANS (Dry beans, Green beans)	2.0 – 3.0 ℓ per ha	BROADLEAF WEEDS: Use the 2.0 ℓ per hectare dosage rate after the first trifoliolate leaf is fully expanded, and before the beans have reached the second trifoliolate leaf stage. The 3.0 ℓ per hectare dosage rate may be used thereafter. Temporary injury to the crop may occur with the application of "BENTA 480 SL", however this will not have a negative impact on yield. Also refer to NOTE A . Green beans: Do not apply more than 2.0 ℓ "BENTA 480 SL" per hectare in inland regions, especially where there is a very high sun intensity. Using a higher dosage rate may result in crop injury.
	3.0 ℓ per ha	YELLOW NUTSEGE: This dosage rate must not be exceeded as crop injury may result. Also refer to NOTE B .
GROUNDNUTS	2.0 – 3.0 ℓ per ha	BROADLEAF WEEDS: Apply from the first trifoliolate leaf stage onwards. A second application may be applied to late germinating weeds. Also refer to NOTE A .
	3.0 – 5.0 ℓ per ha	YELLOW NUTSEGE: Also refer to NOTE B .
MAIZE, SORGHUM, WHEAT and other small grain crops	2.0 – 3.0 ℓ per ha	BROADLEAF WEEDS: Apply during any stage of development, however refer to WEEDS CONTROLLED (leaf stage of the weed). Also refer to NOTE A .
	3.0 – 5.0 ℓ per ha	YELLOW NUTSEGE: Also refer to NOTE B .
SOYA BEANS	2.0 – 3.0 ℓ per ha	BROADLEAF WEEDS: Apply from the second trifoliolate leaf stage onwards. A second application may be applied to late germinating weeds. Temporary injury to the crop may occur with the application of "BENTA 480 SL", however this will not have a negative impact on yield. Also refer to NOTE A .
	3.0 ℓ per ha	YELLOW NUTSEGE: This dosage rate must not be exceeded as crop injury may result. Also refer to NOTE B .

WEEDS CONTROLLED:

BOTANICAL NAME	COMMON NAME	LEAF STAGE AND DOSAGE RATE (ℓ PER HA)	
		2.0 ℓ per ha	3.0 ℓ per ha
<i>Acanthospermum hispidum</i>	Upright starbur	6	8
<i>Argemone subfusiformis</i> (= <i>A. ochroleuca</i>)	Mexican poppy	4	6
<i>Bidens pilosa</i>	Blackjack	4	6
<i>Chenopodium album</i>	White goosefoot	2	4
<i>Cleome monophylla</i>	Single-leaved cleome	4	6
<i>Commelina benghalensis</i> *	Benghal wandering Jew	-	4
<i>Cyperus esculentus</i>	Yellow nutsedge	Refer NOTE B.	
<i>Datura ferox</i>	Large thorn apple	6	8
<i>Datura stramonium</i>	Common thorn apple	6	8
<i>Galinoga parviflora</i>	Gallant soldier	4	6
<i>Hibiscus trionum</i>	Bladder hibiscus	4	6
<i>Ipomoea purpurea</i>	Common morning glory	-	4
<i>Nicandra physaloides</i>	Apple-of-Peru	4	6
<i>Portulaca oleracea</i>	Purslane	4	6
<i>Raphanus raphanistrum</i>	Wild radish	4	6
<i>Ricardia brasiliensis</i> *	Mexican richardia	-	2
<i>Schkuhria pinnata</i> *	Dwarf marigold	2	4
<i>Senecio consanguineus</i>	Ragwort	4	6
<i>Sida spinosa</i>	Sida	4	6
<i>Tagetes minuta</i>	Khaki weed	4	6
<i>Tribulus terrestris</i> *	'Dubbeltjie'	2	4
<i>Xanthium strumarium</i>	Cockle bur	6	8

* Depending on conditions, variable weed control can be expected.

WAARSKUWINGS:

- Skadelik indien ingesluk.
- Hou buite bereik van kinders, ongeligste persone en diere.
- Kan irritasie van die vel of oë veroorsaak.
- Stoor agter slot en grendel, in die oorspronklike houder in 'n koel plek, weg van voedsel, voer, kunsmis en saad.
- Die gebruik van "BENTA 480 SL" op peulgewasse wat met 'n organofosfaat insekdoder geplant is, word nie aanbeveel nie aangesien gewasskade met die kombinasie kan voorkom.
- Herbetreding: Moet nie die behandelde area betree alvorens die spuitneerslag nie droog is nie, tensy beskermende klerasie gedra word.

Alhoewel hierdie onkruidodder 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 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 dampe of spuitnevel inasem nie.
- Dra beskermende kler (gesigskerm, rubberstewels en handskoene) wanneer die konsentraat hanteer word.
- Vermoed kontak met die vel en oë.
- Was met seep en water na gebruik of as die produk per ongeluk in kontak met die vel gekom het.
- Was besoedelde kler voordat dit weer gebruik word.
- In die geval van oogkontak, spoel oë met skoon water uit.
- Moenie eet, drink of rook tydens vermenging of toediening of voordat hande en gesig gewas en ander kler na gebruik aangetrek is nie.
- Voorkom die besoedeling van voedsel, voer, eetgerei en drinkwater.
- Voorkom die oorvaai van spuitmis na ander gewasse, weiding, riviere, damme of gebiede wat nie onder behandeling is nie.
- Moenie toedien naby gewenste plantegroei, of in die omgewing van sulke plante se wortels, of waar die onkruidodder na sulke plante se wortels kan loog of spoel nie.
- Spoel die leë houder driekeer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houder. Gooi die spoelwater by die inhoud van die spuitnevel voordat die houer vernietig word deur gate daarin te maak en plat te slaan. Moenie die houer vir enige ander doel gebruik nie.
- Maak spuittoerusting deeglik skoon na gebruik en gooi waswater waar dit nie gewasse, weiding, riviere of damme sal besoedel nie.

WEERSTANDSWAARSKUWING:

"BENTA 480 SL" is 'n groepkode C3 onkruidodder. Enige populasie van 'n spesifieke onkruid wat individueel insluit wat 'n natuurlike weerstand teen "BENTA 480 SL" en ander groepkode C3 onkruidodders het. Indien hierdie onkruidodders herhaaldelik toegedien word, kan die weerstandbiedende individue uiteindeelik die onkruid populasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur "BENTA 480 SL" of enige ander groepkode C3 onkruidodder beheer word nie.

Om weerstand teen onkruidodders te vertraag:

- Vermoed die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groepkode. Wissel af met, of gebruik tenkingsels van, geregistreerde produkte in verskillende onkruidodder-groepkodes.
 - Integreer ander beheermaatreëls (chemies, verbouing, biologies) in die onkruidodder program.
- Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui**GEBRUIKSBEPERKINGS:**

- Moet nie "BENTA 480 SL" toedien tydens koue weer (of as sulke toestande ver wag word), of as ryp dreig, en moet nie die produk toedien wanneer die gewas en onkruid onder stremming (droogte, hitte, versuip-toestande) verkeer nie.

MENGINSTRUKSIES:

Maak die spuitnevel halfvol met skoon water, voeg die aanbevole hoeveelheid "BENTA 480 SL" by, en maak die spuitnevel na die gewenste volume vol. Die spuitmengsel moet voortdurend geroer word tydens vermenging sowel as toediening.

TOEDIENINGSINSTRUKSIES:

- Dien "BENTA 480 SL" toe op jong groeiende onkruid as 'n vroeë naopkoms toediening.
- Verseker 'n volledige en deeglike bedekking van die onkruid met die spuitmengsel.
- Die effektiwiteit van "BENTA 480 SL" mag nadelig beïnvloed word indien daar reën of besproeiing binne die eerste 8 ure na toediening van die spuitmengsel plaasvind.
- Gebruik ten minste 300 l water per hektaar om "BENTA 480 SL" toe te dien.
- Maak seker dat die toerusting wat gebruik word akkuraat gekalibreer is.

NOTA A: Belangrik vir die beheer van breëblaaronkruid

- "BENTA 480 SL" het min of geen residuele aktiwiteit nie. 'n Tweede toediening mag nodig wees vir die beheer van laat ontkiemende onkruid.
- Gunstige groeistoestand is belangrik vir die effektiewe beheer van onkruid. Stremmingstoestande (droogte, hitte, versuip) voor, tydens of na toediening sal onkruidbeheer benadeel.

NOTA B: Aanbevelings vir die beheer van geeluintjies (*Cyperus esculentus*)

- Gunstige toestande voor en tydens toediening is belangrik vir die beheer van geeluintjies (*Cyperus esculentus*) wat reeds opgekom het. Gunstige toestande sluit in voldoende grondvog vir optimale plantegroei, asook warm en vogtige weer (relatiewe lughumiditeit $\geq 65\%$). Die meerderheid van die geeluintjieplante moet met bespuiting verder ontwikkel wees as die 4-blaarstadium.
- "BENTA 480 SL" het min of geen residuele aktiwiteit nie. 'n Tweede toediening mag nodig wees vir die beheer van onbehandelde laat ontkiemende uintjies.
- Onder minder gunstige toestande sal uintjies net onderdruk word en hergroei kan voorkom. 'n Tweede toediening van "BENTA 480 SL" mag 7 tot 10 dae na die eerste toediening nodig wees.
- Dien 'n mengsel van 1.0 l "BENTA 480 SL" in 100 l water (1%) as 'n kolbehandeling toe, mits die toestande gunstig is soos hierbo genoem. Sorg vir goeie benutting van die plante, maar moet nie die toedieningshoeveelheid per oppervlakte soos aanbeveel in die TOEDIENINGSTABEL oorskry nie.
- Dien 'n minimum van 3.0 l "BENTA 480 SL" per hektaar toe in nie minder as 300 l water per hektaar nie. Verhoog die toedieningsdosis na 4.0 l "BENTA 480 SL" per hektaar as 'n digte stand van uintjies in mielies, graansorghum en grondbone voorkom. In uiterste gevalle, verhoog die dosis na 5.0 l "BENTA 480 SL" per hektaar in 'n minimum van 500 l, en die gebruik van 'n geskikte benatter volgens etiketaanwysings word aanbeveel.
- Onder ongunstige toestande soos droogte, koue weer of droë windige toestande en baie lae lugvogtigheid, sal "BENTA 480 SL" nie geeluintjies beheer nie.

TOEDIENINGSTABEL:

GEWAS EN ONKRUID	DOSIS (l PER HA)	OPMERKINGS
BONE (Droëbone, Groëbone)	2.0 – 3.0 l per ha	BREËBLAARONKRUIDE: Gebruik 2.0 l per hektaar nadat die eerste driebladblaar volkome ontwikkel het, en voordat die bone die tweede driebladstadium bereik het. Daarna mag tot 3.0 l per hektaar gespuit word. Tydelike gewasskade mag veroorsaak word met die toediening van "BENTA 480 SL", maar dit sal nie die oes benadeel nie. Verwys ook na NOTA A. Groëbone: Moet nie meer as 2.0 l "BENTA 480 SL" per hektaar in binnelandse gebiede spuit nie, veral onder weertoestande met hoë sonintensiteit. 'n Hoër dosis mag gewasskade veroorsaak.
	3.0 l per ha	GEELUINTJIES: Moet nie hierdie dosis oorskry nie aangesien hoër dosisse gewasskade kan veroorsaak. Verwys ook na NOTA B.
GRONDBONE	2.0 – 3.0 l per ha	BREËBLAARONKRUIDE: Dien vanaf die eerste driebladstadium toe. 'n Tweede bespuiting mag toegedien word indien daar probleme met laat ontkiemende onkruid ondervind word. Verwys ook na NOTA A.
	3.0 – 5.0 l per ha	GEELUINTJIES: Verwys ook na NOTA B.
MIELIES, GRAAN-SORGHUM, KORING en ander kleingraan	2.0 – 3.0 l per ha	BREËBLAARONKRUIDE: "BENTA 480 SL" kan gedurende enige groeistadium gespuit word, maar verwys na ONKRUIDE BEHEER (blaarstadium van die onkruid). Verwys ook na NOTA A.
	3.0 – 5.0 l per ha	GEELUINTJIES: Verwys ook na NOTA B.
SOJABONE	2.0 – 3.0 l per ha	BREËBLAARONKRUIDE: Dien vanaf die tweede driebladstadium toe. 'n Tweede bespuiting mag toegedien word indien daar probleme met laat ontkiemende onkruid ondervind word. Tydelike gewasskade mag veroorsaak word met die toediening van "BENTA 480 SL", maar dit sal nie die oes benadeel nie. Verwys ook NOTA A.
	3.0 l per ha	GEELUINTJIES: Moet nie hierdie dosis oorskry nie aangesien hoër dosisse gewasskade kan veroorsaak. Verwys ook na NOTA B.

ONKRUIDE WAT BEHEER WORD

BOTANIESE NAAM	GEWONE NAAM	BLAARSTADIUM EN DOSIS (l PER HA)	
		2.0 l per ha	3.0 l per ha
<i>Acanthospermum hispidum</i>	Regopsterklits	6	8
<i>Argemone subfusiformis</i> (= <i>A. ochroleuca</i>)	Meksikaanse papawer	4	6
<i>Bidens pilosa</i>	Gewone knapsekêrel	4	6
<i>Chenopodium album</i>	Withondbossie	2	4
<i>Cleome monophylla</i>	Enkelblaarcleome	4	6
<i>Commelina benghalensis</i> *	Bengaalse commelina	-	4
<i>Cyperus esculentus</i>	Geeluintjies	Verwys na NOTA B.	
<i>Datura ferox</i>	Groot stinkblaar	6	8
<i>Datura stramonium</i>	Gewone stinkblaar	6	8
<i>Galinsoga parviflora</i>	Knopkruid	4	6
<i>Hibiscus trionum</i>	Terblansbossie	4	6
<i>Ipomoea purpurea</i>	Purperwinde	-	4
<i>Nicandra physaloides</i>	Basterappelliefie	4	6
<i>Portulaca oleracea</i>	Gewone porslein	4	6
<i>Raphanus raphanistrum</i>	Ramenas	4	6
<i>Ricardia brasiliensis</i> *	Meksikaanse richardia	-	2
<i>Schkuhria pinnata</i> *	Kleinkakiebos	2	4
<i>Senecio consanguineus</i>	Hongerbos senecio	4	6
<i>Sida spinosa</i>	Sida	4	6
<i>Tagetes minuta</i>	Langkakiebos	4	6
<i>Tribulus terrestris</i> *	Gewone dubbeltjie	2	4
<i>Xanthium strumarium</i>	Kankerroos	6	8

* Afhange van die plaaslike toestande, kan wisselvallige beheer ver wag word.