



Dow AgroSciences

STRONGARM™ 840 WG



HERBICIDE

Reg No L8663 Act/Wet No. / Nr. 36 of / van 1947

A WATER DISPERSIBLE GRANULE HERBICIDE FOR USE ONLY IN TANK MIXTURE AS INDICATED FOR PRE-EMERGENCE CONTROL OF ANNUAL GRASSES, BROADLEAF WEEDS AND UNDER CERTAIN CONDITIONS, ALSO YELLOW NUTSEDGE IN CROPS AS INDICATED.

'N WATERDISPERGEERBARE KORREL ONKRUIDDODER VIR GEBRUIK SLEGS IN TENKMENGSEL SOOS AANGEDUI VIR VOOR-OPKOMBEHEER VAN EENJARIGE GRASSE, BREËBLAARONKRUIDE EN ONDER SEKERE TOESTANDE OOK GEELUINTJIES IN GEWASSE SOOS AANGEDUI.

HERBICIDE GROUP CODE

B2

ONKRUIDDODER GROEPKODE

Active Ingredient / Aktiewe Bestanddeel

diclosulam

diclosulam

(triazolopyrimidine sulfonanilide) 840 g/kg(triasolopirimidien sulfonanilied)

NET MASS g NETTO MASSA

REGISTRATION HOLDER / REGISTRASIEHOUER

DOW AGROSCIENCES SOUTHERN AFRICA (PTY) LTD / (EDMS) BPK

REG NO 1967/007147/07

PRIVATE BAG X160 PRIVAATSAK

BRYANSTON 2021

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Batch Number

..... Lotnommer

Date of Manufacture

..... Vervaardigingsdatum

UN NO: 3077

Poisons Helpline: +27(0)861-555-777

Griffon Poison Information Centre: +27(0)82-446-8946

24 Hour Emergency Tel No: 082-887-8079

Information Hotline Tel No: +27 (012) 361-8112

STRONGARM™ 840 WG/2012-07-31



CAUTION
VERSIGTIG



WARNINGS

Handle with care.

Harmful if swallowed.

May irritate the eyes.

Store away from food and feeds.

Store in a cool place.

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

RE-ENTRY INTERVAL: Do not enter treated area until spray deposit has dried 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 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 the spray mist.

Avoid skin and eye contact. Wear rubber gloves and face shield when handling the concentrate.

Wash contaminated clothing after use.

Wash with soap and water after use.

Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face.

Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.

Clean all mixing and application equipment after use and before using with other products.

- Rinse and flush application equipment thoroughly with water.
- Rinse a second time using a 1% solution of household ammonia.
- Allow the solution to stand in the spray tank for several hours but preferably overnight.
- Rinse at least twice with clean water.
- Do not use the applicator for applying products other than herbicides.
- Dispose of wash water where it will not contaminate food, crops, grazing, rivers, dams or boreholes.

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

Rinse the empty container three times with a volume of clean water equal to a minimum of 10 % of the container. Add the rinsings to the content of the spray tank.

Destroy empty container and never use it for any other purpose.

RESISTANCE WARNINGS

For resistance management, **STRONGARM* 840 WG** is a group code B2 herbicide. Any weed population may contain individuals naturally resistant to **STRONGARM* 840 WG** and other group code B2 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **STRONGARM* 840 WG** or any other group code B2 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.
- Monitor each land on a seasonal basis to identify the development of resistance early.

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

Dow AgroSciences Southern Africa (Pty) Ltd cannot accept liability for any losses that may result from the failure of **STRONGARM* 840 WG** to control resistant weeds.

RESTRICTIONS FOR USE

STRONGARM* 840 WG must be used as a tank mixture in combination with complementary herbicide/s as directed. Such tank mixtures may damage the crops to which applied under the following conditions:

- ❖ Planting depth of crop seed other than the optimum as recommended by the ARC Grain Crops Institute. This depth is 50 – 75 mm for groundnuts and 20 – 60 mm for soybeans (depending on seedbed and soil conditions), these planting depths must be complied with.
- ❖ Do not apply **STRONGARM* 840 WG** through any type of irrigation system. Flood irrigation can reduce weed control efficacy.
- ❖ Do not use **STRONGARM* 840 WG**:
 - on poorly drained soils or soils with a compaction layer. Water logging in the presence of herbicides could cause stand reduction and/or stunted growth, which may lead to yield reduction.
 - on soils with a pH (H₂O) of 7 or more.
 - under conditions of heavy rain and/or irrigation on sandy or gravel soils.
 - under abnormally cold and / or abnormally wet conditions.
- ❖ Do not apply **STRONGARM* 840 WG** tank-mixtures to inbred parent plants of crop cultivars as well as experimental or newly released cultivars, without first consulting the manufacturer, distributor or seed supplier in this regard.

STRONGARM* 840 WG in a mixture with RELAY* SUPER 900 EC (L8173) or ALACHLOR 384 EC or ALACHLOR 480 CS must be applied prior to crop emergence, as directed.

Do not apply afore-mentioned **STRONGARM* 840 WG** mixtures post-emergence to groundnuts or soybeans.

When tank mixing other herbicides in combination with **STRONGARM* 840 WG** the warnings, precautions, use restrictions and directions for use on the labels of the herbicides concerned, must be fully adhered to.

MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES

The minimum recropping interval is the time between the last application of **STRONGARM* 840 WG** in combination with complementary herbicide/s and the anticipated date of planting a subsequent crop.

To avoid injury to subsequent crops the following recropping intervals should be observed:

TANK-MIXTURE OF COMPLEMENTARY PRODUCT/S + STRONGARM* 840 WG	FOLLOW-UP CROP							
	SOYBEANS	GROUND- NUTS	DRY BEANS	GRAIN SORGHUM	MAIZE	POTATOES	SUNFLOWER	WHEAT, OATS, BARLEY
	RECROPPING INTERVAL (MONTHS)							
(ALACHLOR 384 EC + STRONGARM* 840 WG)	0	0	10	10	10	10	10	5
(ALACHLOR 480 CS + STRONGARM* 840 WG)	0	0	10	10	10	10	10	5
(RELAY* SUPER 900 EC + STRONGARM* 840 WG)	3	0	10	10	10	10	10	5

Important

- For all other crops a replanting interval of at least 24 months has to be observed preceded by a test planting.
- The above-mentioned waiting periods are valid only if:
 - only a single application of **STRONGARM* 840 WG**/field/season was made.
 - the correct standard recommended dosage rate of **STRONGARM* 840 WG** in combination with complementary herbicide/s according to the soil type was applied (regard label recommended rate as strictly the maximum usage rate of **STRONGARM* 840 WG** per season)
 - normal or above average rainfall and/or irrigation occurred during and following the season in which the application was made.

- this rain and/or irrigation in the period after application of **STRONGARM* 840 WG** and prior to planting of the follow crop must have been well-distributed and must have totaled at least 350 mm.
- The land should always be deep ploughed before a follow crop is planted.

WEEDS CONTROLLED

The following weed species in LIST A are normally controlled by pre-emergence applications of **STRONGARM* 840 WG** in a mixture with RELAY* SUPER 900 EC (L8173) or ALACHLOR 384 EC or ALACHLOR 480 CS at the dosage rates indicated below:

LIST A:

Broadleaved weeds:

<i>Amaranthus hybridus</i>	common pigweed
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium carinatum</i>	green goosefoot
<i>Cleome gynandra</i>	spider wisp
<i>Cleome monophylla</i>	spindlepod
<i>Galinsoga parviflora</i>	gallant soldier
<i>Schkuria pinnata</i>	dwarf marigold
<i>Tribulus terrestris</i>	dubbeltjie

Annual grasses:

<i>Brachiaria eruciformis</i>	sweet signal grass
<i>Chloris virgata</i>	feathertop Chloris
<i>Digitaria sanguinalis</i>	crab finger grass
<i>Echinochloa crus-galli</i>	barnyard grass
<i>Eleusine indica</i>	goose grass
<i>Panicum schinzii</i>	sweet buffalo grass
<i>Panicum maximum</i>	common buffalo grass
<i>Setaria pallide-fusca</i>	red bristle grass
<i>Setaria verticillata</i>	sticky bristle grass
<i>Tragus racemosus</i>	large carrotseed grass
<i>Urochloa panicoides</i>	herringbone grass

Control of the following weeds in LIST B is variable following pre-emergence applications of STRONGARM* 840 WG in a mixture with RELAY* SUPER 900 EC (L8173) or ALACHLOR 384 EC or ALACHLOR 480 CS at the dosage rates indicated below:

LIST B:

<i>Commelina benghalensis</i>	Bengal wandering jew
<i>Crotolaria sphaerocarpa</i>	mealie Crotolaria
<i>Cyperus esculentus</i>	yellow nutsedge
<i>Datura ferox</i>	large thorn apple
<i>Datura stramonium</i>	common thorn apple
<i>Gisekia pharnacoides</i>	Gisekia
<i>Hibiscus trionum</i>	Bladderweed
<i>Ipomoea purpurea</i>	Common morning glory
<i>Portulaca oleraceae</i>	purslane
<i>Tagetes minuta</i>	khaki weed
<i>Xanthium strumarium</i>	cocklebur

Important: Yellow nutsedge (*Cyperus esculentus*).

The control of ***Cyperus esculentus*** can be improved provided the following conditions are met:

- ◆ Planting is immediately preceded by a thorough ploughing with a mouldboard plough.
- ◆ A relatively fine, even and firm seedbed is prepared.
- ◆ Herbicide application is followed by at least 15 mm (light soils) to 25 mm (heavy soils) of soft penetrating rain (or irrigation) to leach the herbicide into the soil prior to the emergence of ***Cyperus esculentus*** (normally 7 - 10 days after ploughing). These conditions are more likely to occur during the latter half of the planting season (November).
- ◆ Rainfall following herbicide application but before emergence of ***Cyperus esculentus*** is necessary for optimum ***Cyperus esculentus*** control. For this reason application of the tank mixture should be made at or immediately after planting into moist soil.
- ◆ When planting into dry soil (insufficient moisture for ***Cyperus esculentus*** germination) application should be timed as close as possible to, but definitely before the first rains.

The control of the above-mentioned weeds in Lists A and B may be detrimentally affected under the following conditions:

- ❖ A poorly prepared seedbed.
- ❖ Soils with a pH (H₂O) of less than 5 and an organic matter content of more than 3 %.
- ❖ Dry conditions directly after application or a lack of sufficient rain on heavy soils.

NOTE: STRONGARM* 840 WG mixtures control certain annual grasses and numerous broadleaf weeds as detailed in Lists A and B above. Other annual weeds that were not present during the development trials with the products may also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted weeds.

DIRECTIONS FOR USE

Use only as directed

COMPATIBILITY

The compatibility of **STRONGARM* 840 WG** in combination with complementary products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Dow AgroSciences, and water quality may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

MIXING INSTRUCTIONS

STRONGARM* 840 WG water dispersible granules are provided in water-soluble sachets that require thorough mixing. The product contained in each single sachet has a mass of 30 g. Ten individual sachets of 30 g each are packed into a foil overpack – a labeled and zippered reusable foil protective pouch. The foil pouch thus holds a total of 300 g product.

Do not remove water-soluble sachets from overpack except for immediate use. Do not handle the soluble sachets excessively or allow to contact water prior to use as this may cause rupturing. Keep unused sachets in the zippered foil overpack.

STRONGARM* 840 WG should be pre-mixed (slurried) with water. On addition of water soluble sachets to water in a bucket stir immediately or allow to dissolve. Stir until the sachets are completely dissolved and granules are dispersed and add to a half-full spray tank of water. Rinse container used for pre-mixing and add rinsate to spray tank.

Add then the required amount of complementary herbicide.

Top up the spray tank with water until the final volume has been obtained.

Ensure thorough agitation of the mixture in the tank during mixing or spraying.

Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank.

APPLICATION

Post plant pre-emergence

When planting into moist soil, **STRONGARM* 840 WG** must be applied in a mixture with RELAY* SUPER 900 EC (L8173), ALACHLOR 384 EC or ALACHLOR 480 CS **within three days after planting** (but preferably at planting) on a fine, even, firm and freshly prepared seedbed free of weeds, excessive plant trash and large clods. The herbicide-mixture should not be applied later than 3 (three) days after the final cultivation for seedbed preparation.

Deviation from the aforesaid seedbed conditions and/or application timing may result in less effective weed control. To obtain good results it is also necessary that application is followed within seven (7) days by 12 – 15 mm of rain or irrigation before the weeds emerge. If rainfall does not occur in time and weeds begin to emerge and develop, a shallow cultivation must be carried out to destroy these weeds and to mix the herbicide with the top 10 - 20 mm of the soil. Cultivation equipment adjusted to run shallow and minimize soil movement will decrease the possibility of diluting or moving the herbicide from the weed control zone.

A rotary harrowing in the same direction of the rows may improve crop emergence if soil crusting is a problem, again minimize soil movement. To avoid possible stress to the crop of inadequate nutrition and to promote vigorous initial crop seedling growth ensure adequate fertilizer is placed near the seed at planting.

Ground application [Post plant pre-emergence]

STRONGARM* 840 WG in a mixture with complementary product/s as recommended can be applied with any medium or high volume sprayer, properly calibrated and which is equipped with an efficient agitation mechanism. Choice and arrangement of fan type spray nozzles should be such as to ensure even distribution and optimal recovery of the herbicide. The recommended amount of **STRONGARM* 840 WG** in a mixture with complementary product/s should be applied in at least 200 ℓ water/ha, as an overall application. If band treatment is practiced, proportionately less spray mixture must be used per hectare.

APPLICATION RATES:

A. GROUNDNUTS (Pre-emergence):

% CLAY	STRONGARM* 840 WG (g/ha)	PLUS RELAY* SUPER 900 EC (mℓ/ha)
0 – 10	10	750
11 - 20	15	1000
21 - 30	20	1000 - 1500

B. SOYBEANS (Pre-emergence):

% CLAY	STRONGARM* 840 WG (g/ha)	PLUS ALACHLOR 384 EC (ℓ/ha)	OR PLUS ALACHLOR 480 CS (ℓ/ha)
0 - 10	10	4,0	3,2
11 - 20	15	4,0 - 4,5	3,2 – 3,6
21 - 30	20	4,5 - 5,0	3,6 – 4,0
31 - 40	25	5,0	4,0
> 40	30	5,0	4,0

24 HOUR EMERGENCY TEL. NO. 082-887-8079

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

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WAARSKUWINGS

Hanteer versigtig.

Skadelik wanneer ingesluk.

Kan oë irriteer.

Berg in 'n koel plek.

Berg weg van voedsel en voer.

Hou buite bereik van kinders, oningeligte persone en diere.

HERBETREDING: Moet nie behandelde gebied betree alvorens die spuitneerslag droog is 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 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 die spuitnewel inasem nie.

Vermý aanraking met die vel en oë. Dra rubberhandskoene en gesigmasker wanneer konsentraat hanteer word.

Was met seep en water na gebruik.

Was besoedelde klere na gebruik.

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

Vermý spuitnewelwegdrywing na ander gewasse, weiveld, riviere, damme en plekke wat nie behandel moet word nie.

Maak alle meng- en toedieningsapparaat skoon na gebruik en voordat met ander produkte gebruik word.

- Spoel toedieningsapparaat deeglik uit met water.
- Spoel uit 'n tweede keer met gebruik van 'n 1% huishoudelike ammoniakoplossing.
- Laat staan die oplossing in die spuittenk vir 'n paar uur, maar verkieslik oornag.
- Spoel ten minste twee keer met skoon water 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, gewasse, weiding, riviere, damme of boorgate sal besoedel nie.

Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.

Spoel die leë houer drie keer uit met 'n volume skoon water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk.

Vernietig die leë houer en moet dit nie vir enige ander doel gebruik nie.

WEERSTANDSWAARSKUWING

STRONGARM* 840 WG is 'n groepkode B2 onkruidodder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **STRONGARM* 840 WG**, of enige ander groepkode B2 onkruidodder het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **STRONGARM* 840 WG** of enige ander groepkode B2 onkruidodder beheer word nie.

Om weerstand teen onkruidodders te vertraag:

- Vermy die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruidoddergroepkodes.
- Integreer ander beheermaatreëls, (chemies, verbouing, biologies) in onkruidbeheerprogramme.
- Monitor elke land op 'n seisoenale basis om die ontstaan van weerstand vroegtydig te identifiseer.

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

Dow AgroSciences Southern Africa (Pty) Ltd aanvaar geen aanspreeklikheid ten opsigte van enige verlies wat mag ontstaan indien **STRONGARM* 840 WG** nie weerstandbiedende onkruid beheer nie.

GEBRUIKSBEPERKINGS

STRONGARM* 840 WG moet as 'n tenkmengsel in kombinasie met komplementêre produk/te soos aanbeveel gebruik word. Sulke tenkmengsels mag die gewasse waaraan dit toegedien is onder die volgende toestande beskadig:

- ◆ Plantdiepte van gewassaad ander dan die optimum soos deur die LNR, Instituut vir Graangewasse voorgeskryf. Hierdie dieptes is 50 - 75 mm vir grondbone en 20 – 60 mm vir sojabone (afhangend van die saadbed en grondtoestande), hierdie plantdieptes moet nagekom word.
- ◆ Moenie **STRONGARM* 840 WG** deur enige tipe besproeiingstelsel toedien nie. Vloedbesproeiing kan die effektiwiteit van onkruidbeheer verlaag.
- ◆ Moenie **STRONGARM* 840 WG** gebruik
 - op swak gedreineerde gronde of gronde met 'n verdigte laag. Versuiptoestande in die verteenwoordigheid van onkruidodders sal tot verminderde stand en/of vertraagde groei lei, wat oesverlies tot gevolg mag hê.
 - op gronde met 'n pH (H₂O) van 7 en meer.
 - onder toestande van baie reën en/of besproeiing op sanderige of gruiserige gronde.
 - onder abnormale koue en/of abnormale nat toestande.

- ◆ Moenie **STRONGARM* 840 WG** tenkmengsels toedien aan ingeteelde ouerplante van gewaskultivars, asook proef of nuutvrygestelde kultivars sonder om eers die vervaardiger, verspreider of saadverskaffer in hierdie verband te raadpleeg nie.

STRONGARM* 840 WG in mengsel met RELAY* SUPER 900 EC (L8173) of ALACHLOR 384 EC of ALACHLOR 480 CS moet vooropkoms van die gewas toegedien word, soos aanbeveel.

Moenie bogenoemde **STRONGARM* 840 WG** mengsels na-opkoms aan grondbone of sojabone toedien nie.

Wanneer tenkmengsels van **STRONGARM* 840 WG** en ander onkruidodders gemaak word, moet die waarskuwings, voorsorgmaatreëls, gebruiksbepelings en gebruiksaanwysings soos vermeld op die betrokke etikette sorgvuldig nagekom word.

MINIMUM WAGPERIODES EN WISSELBOU-AANWYSINGS

Die minimum wagperiode is die tydsverloop tussen die laaste toediening van **STRONGARM* 840 WG** in kombinasie met komplementêre onkruidoder/s tot die verwagte tyd van aanplanting van 'n opvolggewas.

Om skade aan opvolggewasse te voorkom, moet die volgende wagperiodes in ag geneem word:

TENKMENGSEL VAN KOMPLIMENTÊRE PRODUK/TE + STRONGARM* 840 WG	OPVOLGGEWAS							
	SOJABONE	GROND- BONE	DROË BONE	GRAAN- SORGHUM	MIELIES	AARTAPPELS	SONNEBLOM	KORING, HAWER, GARS
	WAGPERIODE (MAANDE)							
(ALACHLOR 384 EC + STRONGARM* 840 WG)	0	0	10	10	10	10	10	5
(ALACHLOR 480 CS + STRONGARM* 840 WG)	0	0	10	10	10	10	10	5
RELAY* SUPER 900 EC + STRONGARM* 840 WG	3	0	10	10	10	10	10	5

Belangrik

- Vir alle ander gewasse word 'n wagperiode van ten minste 24 maande aanbeveel, voorafgegaan deur 'n toetsplanting.

- Bogenoemde wagperiodes geld slegs indien:
 - slegs 'n enkeltoediening van **STRONGARM* 840 WG**/land/seisoen gebruik was.
 - die korrekte hoeveelheid **STRONGARM* 840 WG** in kombinasie met komplementêre produk/te per grondsoort toegedien is (beskou etiket-aanbevole dosis as streng die maksimum gebruiksdosis van **STRONGARM* 840 WG** per seisoen).
 - normale of bogemiddelde reënval en/of besproeiing gedurende die seisoen waarin die toediening gemaak is en daarna voorgekom het.
 - hierdie reën en/of besproeiing in die periode na toediening van **STRONGARM* 840 WG** en voordat die opvolggewas geplant word, moes goed versprei gewees het en moes ten minste 350 mm reën en/of besproeiing in totaal gewees het.
- Die land moet altyd diep geploeg word voordat 'n opvolggewas geplant word.

ONKRUIDE WAT BEHEER WORD

Die volgende onkruidsoorte in LYS A word normaalweg beheer deur vooropkomtoedienings van **STRONGARM* 840 WG** in mengsel met RELAY* SUPER 900 EC (L8173) of ALACHLOR 384 EC of ALACHLOR 480 CS teen die toedieningshoeveelhede soos hieronder aangedui:

LYS A:

Breëblaaronkruid:

<i>Amaranthus hybridus</i>	gewone misbredie
<i>Chenopodium album</i>	withondebossie
<i>Chenopodium carinatum</i>	groenhondebossie
<i>Cleome gynandra</i>	snotterbelletjie
<i>Cleome monophylla</i>	ruspherbossie
<i>Galinsoga parviflora</i>	knopkruid
<i>Schkuria pinnata</i>	kleinkakiebos
<i>Tribulus terrestris</i>	dubbeltjie

Eenjarige grasse:

<i>Brachiaria eruciformis</i>	litjiesinjalgras
<i>Chloris virgata</i>	witpluimgras
<i>Digitaria sanguinalis</i>	kruisvingergras
<i>Echinochloa crus-galli</i>	hanepootmanna
<i>Eleusine indica</i>	jongosgras
<i>Panicum schinzii</i>	soetbuffelsgras
<i>Panicum maximum</i>	gewone buffelsgras
<i>Setaria pallide-fusca</i>	rooiborselgras
<i>Setaria verticillata</i>	klitsborselgras
<i>Tragus racemosus</i>	grootwortelsaadgras
<i>Urochloa panicoides</i>	tuin Urochloa

Onkruid in LYS B word wisselvallig beheer deur voor-opkoms toedienings van STRONGARM* 840 WG in mengsel met RELAY* SUPER 900 EC (L8173) of ALACHLOR 384 EC of ALACHLOR 480 CS teen die toedieningshoeveelhede soos hieronder aangedui:

LYS B:

<i>Commelina benghalensis</i>	wandelende Jood
<i>Crotolaria sphaerocarpa</i>	mielie Crotolaria
<i>Cyperus esculentus</i>	geeluintjie
<i>Datura ferox</i>	grootstinkblaar
<i>Datura stramonium</i>	stinkblaar
<i>Gisekia pharnacoides</i>	Gisekia
<i>Hibiscus trionum</i>	Terblansbossie
<i>Ipomoea purpurea</i>	purperwinde
<i>Portulaca oleraceae</i>	gewone porslein
<i>Tagetes minuta</i>	kakiebos
<i>Xanthium strumarium</i>	kankerroos

Belangrik: Geeluintjie (*Cyperus esculentus*).

Die beheer van *Cyperus esculentus* kan verbeter word deur aan die volgende voorwaardes te voldoen:

- ❖ Die plantproses onmiddellik voorafgegaan word deur 'n deeglike ploegbewerking met 'n skaarploeg.
- ❖ 'n Relatiewe fyn, egalige en ferm saadbed voorberei word.
- ❖ Die onkruidodertoediening gevolg word deur minstens 15 mm (ligte grond) tot 25 mm (swaar grond) sagte deurdringende reën (of besproeiing) om die onkruidodertoe in die grond in te loog voordat *Cyperus esculentus* opkom (gewoonlik 7 - 10 dae na deeglike grondbewerking). Die kans vir hierdie toestand om voor te kom is groter tydens die laaste helfte van die plantseisoen (November).
- ❖ Reënval na onkruidodertoediening maar voor *Cyperus esculentus* opkoms is noodsaaklik vir optimale *Cyperus esculentus* beheer. Gevolglik moet die tenkmengsel tydens of onmiddellik na die plantproses in klam grond toegedien word.
- ❖ Wanneer in droë grond geplant word (onvoldoende vog om *Cyperus esculentus* te laat ontkiem), moet die toediening van **STRONGARM* 840 WG** uitgestel word tot so na as moontlik aan, maar beslis voor die eerste reën.

Die beheer van bogenoemde onkruid in lys A en B mag nadelig beïnvloed word onder die volgende toestande:

- Swak voorbereide saadbed.
- Gronde met 'n pH (H₂O) van minder as 5 en 'n organiese materiaal inhoud van meer as 3 %.
- Droë toestande direk na toediening of onvoldoende reënval op swaar grond.

NOTA: STRONGARM* 840 WG tenkmengsels verskaf beheer van sekere eenjarige grasse en vele breëblaaronkruiden soos weergegee in LYTE A en B hierbo. Ander eenjarige onkruiden wat nie tydens die ontwikkelingsproewe met die middels voorgekom het nie, kan ook moontlik in meerdere of mindere mate beheer word. Die registrasiehouer aanvaar egter geen aanspreeklikheid ten opsigte van ongelyste onkruiden nie.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui

VERENIGBAARHEID

Die verenigbaarheid van **STRONGARM* 840 WG** in kombinasie met komplimentêre produk/te mag beïnvloed word deur die formulering van die betrokke produkte asook deur die kwaliteit van die water. Aangesien die formulering van ander produkte kan verander sonder die medewete van Dow AgroSciences en die kwaliteit van die water ook van plaas tot plaas kan verskil, moet 'n fisiese verenigbaarheidstoets altyd uitgevoer word voordat gespuit word.

MENGINSTRUKSIES

STRONGARM* 840 WG waterdispergeerbare korrels word in wateroplosbare sakkies verskaf wat deeglike vermenging benodig. Die produk in elke enkele sakkie het 'n massa van 30 g. Tien enkel sakkies van 30 g elk word in 'n foelie buitepak verpak - 'n herbruikbare foelie beskermende pak met ritsluiters. Die foeliepak bevat dus 'n totaal van 300 g produk.

STRONGARM* 840 WG moet vooraf met water gemeng word om 'n bry (*slurry*) te vorm. Nadat wateroplosbare sakkies tot water in 'n emmer gevoeg is, roer onmiddellik of laat oplossing toe. Roer totdat die sakkies volledig opgelos en korrels dispergeer het, voeg dan tot 'n halfvol spuittenk water by. Spoel houer gebruik vir voorafvermenging en voeg spoelwater tot die spuittenk by.

Voeg dan die benodigde hoeveelheid komplimentêre produk by. Vul die tenk verder met water tot die verlangde volume in die spuittenk bereik word.

Die spuitmengsel moet tydens vermenging en toediening voortdurend deeglik in roering gehou word.

Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om in die spuittenk te staan nie.

TOEDIENING

Na-plant vooropkom

Wanneer in klam grond geplant word, moet **STRONGARM* 840 WG** in mengsel met RELAY* SUPER 900 EC (L8173) of ALACHLOR 384 EC of ALACHLOR 480 CS **binne drie dae na plant** (maar verkieslik tydens plant) op 'n relatiewe fyn, egalige, ferm en vars voorbereide saadbed, vry van onkruid, oormatige plantreste en groot kluite, toegedien word. Die onkruidodermengsel moet nie later toegedien word nie as drie (3) dae na die finale bewerking vir saadbedvoorbereiding.

Afwyking van die voorafgenoemde saadbedtoestande en/of die voorgeskrewe toedieningstyd mag minder effektiewe onkruidbeheer tot gevolg hê. Om goeie resultate te verkry, is dit ook noodsaaklik dat die onkruidodertoediening binne sewe (7) dae gevolg moet word deur 12 – 15 mm reën of besproeiing voordat die onkruid opkom. Indien reën nie betyds voorkom nie en die onkruid begin opkom en ontwikkel, moet 'n vlak grondbewerking uitgevoer word om hierdie onkruid te vernietig en die onkruiddoder met die boonste 10 - 20 mm grondlagie te vermeng.

Bewerkingstoerusting wat verstel is om vlak te loop en om grondbeweging te minimaliseer sal die waarskynlikheid van verdunning van of verwydering van die onkruiddoder vanuit die onkruidbeheer sone, verminder. Die gebruik van 'n roltandeg in dieselfde rigting as die plantrye mag gewasopkoms bevorder indien grondkorsvorming 'n probleem is, weereens minimaliseer beweging van grond. Om moontlike gewasstremming as gevolg van onvoldoende voeding te vermy en om kragtige, aanvanklike gewassaailinggroei te bevorder, sorg dat voldoende kunsmis tydens plant naby die saad geplaas word.

Grondtoediening [Na-plant voor-opkoms]

STRONGARM* 840 WG in mengsel met komplementêre produk/te soos aanbeveel kan met enige medium- of hoë volume spuittoerusting wat met 'n doeltreffende roer-meganisme toegerus is en wat korrek gekalibreer is, toegedien word. Keuse en rangskikking van waaiertipe spuitpunte moet sodanig wees dat 'n egalige verspreiding en optimale herwinning van die onkruiddoder verkry word. Die aanbevole hoeveelheid **STRONGARM* 840 WG** in mengsel met komplementêre produk/te moet in minstens 200 liter water/ha toegedien word, as 'n breedwerpige toediening.

Indien strooktoediening toegepas word, moet die volume spuitmengsel per hektaar na verhouding verminder word.

TOEDIENINGSHOEVEELHEDE

A. GRONDBONE (Vooropkoms):

% KLEI	STRONGARM* 840 WG (g/ha)	<u>PLUS</u> RELAY* SUPER 900 EC (mℓ/ha)
0 - 10	10	750
11 - 20	15	1000
21 - 30	20	1000 - 1500

B. SOJABONE (Vooropkoms):

% KLEI	STRONGARM* 840 WG (g/ha)	<u>PLUS</u> ALACHLOR 384 EC (ℓ/ha)	<u>OF PLUS</u> ALACHLOR 480 CS (ℓ/ha)
0 - 10	10	4,0	3,2
11 - 20	15	4,0 – 4,5	3,2 – 3,6
21 - 30	20	4,5 – 5,0	3,6 – 4,0
31 - 40	25	5,0	4,0
> 40	30	5,0	4,0

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