

WARNINGS

- Handle with care.
- Harmful if swallowed.
- Can cause eye irritation.
- Keep out of reach of children, uninformed persons and animals.
- Store away from food and feed and in a cool, dry place.
- Re-entry: Do not enter treated field if spray has not dried unless wearing protective clothing.

Although this remedy has been 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 the disease 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, harm to man or animal, or for lack of performance of the remedy concerned, due 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 spray mist.
- Wear rubber gloves and boots and face shield when handling concentrate and whilst applying.
- Wash after accidental skin contact.
- Do not eat, drink or smoke whilst mixing and applying or before washing hands and face.
- Prevent spray drift onto other crops, grazing, rivers and dams and areas not under treatment.
- **TRIPLE RINSE** empty containers in the following manner. 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, in the prescribed manner.
- Clean applicator after use and do not contaminate crops, grazing, rivers and dams with wash water.
- Destroy empty container and never use for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

FIRST AID TREATMENT

- IF IN EYES:** Wash eyes for at least 15 minutes under running water, with eyelids held open. Consult an eye specialist.
- IF SWALLOWED:** Rinse mouth and then drink plenty of water. Do not induce vomiting, unless told by a poison control centre, or doctor. Seek

medical attention. Never induce vomiting, or give anything by mouth, if the victim is unconscious, or having convulsions.

- IF ON SKIN:** Wash skin with plenty of soap and water. If irritation develops, seek medical attention.
- IF INHALED:** Keep patient calm, remove to fresh air. Seek medical attention.

NOTE TO PHYSICIAN

Treat according to symptoms (decontamination, vital functions).

RESISTANCE WARNING AND MANAGEMENT

For resistance management, **HUMBOLT 840 WG** is a group code B2 herbicide. Any weed population may contain individuals naturally resistant to this chemical 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 therefore be controlled by **HUMBOLT 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 field on a seasonal basis to identify the possible development of resistance.

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

Cedar Falls Properties (Pty) Ltd cannot accept liability for any losses that may result from the failure of **HUMBOLT 840 WG** to control resistant weeds.

USE RESTRICTIONS

HUMBOLT 840 WG should be used in combination with complementary herbicide/s as a tank mixture. However, these tank mixtures may damage the crops to which they are applied under these conditions:

- If the seeds have not been planted at the depths 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.
- **HUMBOLT 840 WG** must not be applied through any type of irrigation system.
 - Flood irrigation can also reduce weed control efficacy.
- Do not use **HUMBOLT 840 WG**:
 - On poorly drained soils or soils with a compaction layer. Water logging in such soils in the presence of herbicides could cause stand reduction and/or stunted growth and this can 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.



HUMBOLT 840 WG

Reg. No.: L10252 Act/Wet No. 36 of/van 1947

A water dispersible granule herbicide for use in tank mixtures for pre- emergence control of annual grasses, broadleaf weeds and under certain conditions, yellow nutsedge in groundnuts and soybeans.

'n Waterdispergeerbare korrel onkruidodder vir gebruik slegs in tenkmengsel vir voor-opkombeher van eenjarige grasse, breëblaaronkruid en onder sekere toestande ook geeluintjies in grondbone en sojabone.

HERBICIDE GROUP CODE:	B2	ONKRUIDDODER GROEPKODE
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ACTIVE INGREDIENT/AKTIEWE BESTANDEEL:

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

Manufacture Date:
Vervaardigingsdatum:

Batch No.:
Lotnommer:

NET MASS/ INHOUD

 Kg

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

22 Burnside Drive, Old Mill Industrial Park, Mount Edgecombe, South Africa, 4300 • Tel. (031) 502 4196

• **Emergency Number: Griffon Poison Information Centre**

UN No.: 2092



CAUTION
VERSIGTIG



- Under abnormally cold and / or abnormally wet conditions.
- Do not apply **HUMBOLT* 840 WG** tank-mixtures to inbred parent crop cultivars as well as experimental or newly released cultivars, without first consulting the manufacturer, distributor or seed supplier in this regard.
- **HUMBOLT* 840 WG** in a mixture with FARMAG ACETOCHLOR 900 EC or ALACHLOR 384 EC or ALACHLOR 480 CS should be applied prior to crop emergence, as directed.
- Do not apply these **HUMBOLT* 840 WG** mixtures post-emergence to groundnuts or soybeans.
- When tank mixing other herbicides with **HUMBOLT* 840 WG** the warnings, precautions, use restrictions and directions for use on the labels of these herbicides should be fully adhered to.

MINIMUM RE-CROPPING INTERVAL AND CROP ROTATION GUIDELINES

The minimum re-planting interval is the time between the last application of **HUMBOLT* 840 WG** as a recommended tank-mix and the anticipated planting date of a subsequent crop.

To avoid injury to subsequent crops the following re-planting intervals should be observed:

TANK-MIXTURES OF HUMBOLT* 840 WG	FOLLOW-UP CROP							
	WHEAT, OATS, BARLEY	SUNFLOWER	DRY BEANS	GRAIN SORGHUM	MAIZE	POTATOES	SOYBEANS	GROUND- NUTS
	REPLANTING INTERVAL (MONTHS)							
(ALACHLOR 384 EC + HUMBOLT* 840 WG)	5	10	10	10	10	10	0	0
(ALACHLOR 480 CS + HUMBOLT* 840 WG)	5	10	10	10	10	10	0	0
FARMAG ACETOCHLOR 900 EC + HUMBOLT* 840 WG)	5	10	10	10	10	10	3	0

Important:

- For all other crops not in this table a replanting interval of at least 24 months has to be observed and should be preceded by a test planting.
- The waiting periods in the table above are valid only if:
 - Just a single application of **HUMBOLT* 840 WG** was made per field, per season.
 - The correct rates of **HUMBOLT* 840 WG** in combination with tank-mix herbicide/s (according to the soil type), were applied. The rates recommended on the label should be regarded as the maximum usage rate of **HUMBOLT* 840 WG** in a season.
 - There was normal or even above average rainfall and/or irrigation during and following the season in which the application was made.
 - This rain and/or irrigation after application of **HUMBOLT* 840 WG** and before the planting of the follow crop should be well-distributed and have totalled at least 350 mm.
- The field should always be 'deep ploughed' before a follow-up crop is planted.

WEEDS CONTROLLED

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

LIST A:

Annual grasses:

<i>Bracharia 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 carrot-seed grass
<i>Urochloa panicoides</i>	herringbone grass

Broadleaf weeds:

<i>Amaranthus hybridus</i>	pigweed
<i>Chenopodium album</i>	white goosefoot
<i>Chenopodium carinatum</i>	green goosefoot
<i>Cleome gynandra</i>	spider wisp
<i>Cleome monophylla</i>	single-leaf cleome
<i>Galinisoga parviflora</i>	gallant soldier
<i>Schkuria pinnata</i>	dwarf marigold
<i>Tribulus terrestris</i>	dubbeltjie

Control of the following weeds (LIST B) can be variable following pre-emergence applications of HUMBOLT* 840 WG in a mixture with FARMAG ACETOCHLOR 900 EC (L9019) or ALACHLOR 384 EC (L5949) or ALACHLOR 480 CS at the dosage rates indicated below:

LIST B:

<i>Commelina benghalensis</i>	Bengal wandering jew
<i>Crotalaria sphaerocarpa</i>	mealie crotalaria
<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>	large cocklebur

Important: Yellow nutsedge (Cyperus esculentus):

The control of *Cyperus esculentus* can be improved under the following conditions:

- Thorough ploughing with a mouldboard plough just before planting and the preparation of a fine, even seed-bed.
- The application of the herbicide is followed by at least 15 mm (light soils) to 25 mm (heavy soils) of soft penetrating rain or irrigation. This will leach the herbicide into the soil prior to the emergence of *Cyperus esculentus*, which would normally happen about 7 - 10 days after soil preparation. This situation is more likely to occur later on in the planting season (November).
- Rainfall (or irrigation) following herbicide application but before emergence of *Cyperus esculentus* is necessary for optimum control of this weed. This means that the tank mixture should be applied during or immediately after planting into moist soil.
- When planting into dry soil which could have insufficient moisture for the germination of the nutgrass, the application should be timed as close as possible to, but definitely before the first rains.

The following conditions can detrimentally affected the control of the weeds in Lists A and B above":

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

NOTE: HUMBOLT* 840 WG mixtures control certain annual grasses and numerous broadleaf weeds as listed 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. However, the registration holder does not accept any responsibility for unlisted weeds.

DIRECTIONS FOR USE Use only as directed

COMPATIBILITY

The compatibility of **HUMBOLT* 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 the registration holder, and water quality may vary from farm to farm, a physical compatibility test should always be carried out prior to application

MIXING INSTRUCTIONS

HUMBOLT* 840 WG water dispersible granules are supplied in water-soluble sachets that will need thorough mixing. There is 30g of product in each sachet. Ten 30g sachets are packed into a foil labeled, zippered overpack which is reusable. This pouch therefore holds a total of 300 g product (10 x 30g).

Do not remove water-soluble sachets from this pack except for immediate use. Do not handle the soluble sachets excessively or allow any contact with water prior to use as this may cause rupturing. Keep unused sachets in the zippered foil overpack. **HUMBOLT* 840 WG** should be pre-mixed with water and made into a slurry. When the sachets have been put into water stir immediately and allow to dissolve. The water should be stirred until the sachets are completely dissolved and the granules have dispersed. This mixture can then be added to a spray tank half-full of water. Rinse the container used for pre-mixing and add the rinsate to the spray tank.

Then add then the required amount of tank-mix 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 should be sprayed out immediately and must not be allowed to stand in the spray tank.

APPLICATION

Post planting and pre-emergence of the weeds

When planting into moist soil, **HUMBOLT* 840 WG** should be applied in a mixture with **FARMAG ACETOCHLOR 900 EC (L9019)**, **ALACHLOR 384 EC (L5949)** or **ALACHLOR 480 CS** within three days of planting (but preferably at planting) on a fine, even, firm and freshly prepared seedbed. The application should not be later than three days after the final cultivation or seedbed preparation. The seedbed should then be free of weeds, excessive plant trash and large clods.

Optimum weed control will be achieved if these conditions are adhered to. In addition, 12 – 15 mm of rain or irrigation is required within seven days and before the weeds emerge. If this

rainfall does not occur and weeds begin to emerge, a shallow cultivation should be carried out to destroy these seedlings and to mix the herbicide into the top 10 - 20 mm of the soil. Cultivation equipment can be adjusted to run shallow which will minimize soil movement and decrease the possibility of diluting or moving the herbicide from the weed control zone.

If soil crusting is seen as a potential a problem, the soil can be rotary harrowed in the same direction of the rows. This may improve crop emergence and again, minimize soil movement. To avoid possible crop stress and to promote vigorous seedling growth of the crop, ensure that sufficient fertilizer is placed near the seed at planting.

Ground application [Post planting of the crop but pre-emergence of seedlings]

HUMBOLT* 840 WG can be applied as a tank-mix with any medium or high volume sprayer, which properly calibrated and has an efficient agitation mechanism. The choice and arrangement of fan type spray nozzles should be done to ensure an even distribution and optimal herbicide recovery. The recommended amount of **HUMBOLT* 840 WG** in this tank-mix should be applied as an overall application in at least 200 lts water/ha. If it is to be applied as a band treatment proportionately less spray mixture should be used per hectare.

APPLICATION RATES:

A. SOYBEANS (Pre-emergence):

% CLAY	HUMBOLT* 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

B. GROUNDNUTS (Pre-emergence):

% CLAY	HUMBOLT 840 WG (g/ha)	PLUS FARMAG ACETOCHLOR 900 EC (ℓ/ha)
0 - 10	10	0.75
11 - 20	15	1.00
21 - 30	20	1.00 - 1.50

WAARSKUWINGS

- Hanteer versigtig.
- Skadelik wanneer ingesluk word
- Kan tot oog irritasie aanleiding gee.
- Hou buite bereik van kinders, oningeligte mense en diere.
- Stoor ver weg van kos en voeding in 'n koel, droë plek.
- Herbetreding: Moenie veld betree wat gespuit is nie voordat die spuit nie droog is nie, tensy beskermde klere gedra word.

Alhoewel hierdie middel uitgebreid en onder 'n groot verskeidenheid van omstandighede getoets is, waarborg die registrasiehouer nie dat dit onder alle omstandighede doeltreffend sal wees nie, omdat die reaksie en gevolge beïnvloed kan word deur faktore soos abnormale klimaats- en bergingstoestande, die kwaliteit van verdunde water, ooreenstemmigheid met ander stowwe wat nie op die etiket verskyn nie, en die voorkoms van onkruid weerstandigheid teenoor die betrokke middel, sowel as die metode, tye en akkuraatheid van toediening. Verdermeer aanvaar die registrasiehouer geen verantwoordelikheid vir beskadiging van gewasse, plantegroei, die omgewing of enige skade teenoor mens of dier of vir die gebrek aan doeltreffendheid van die betrokke middel as gevolg van die gebruiker se gebrek om die etiket se instruksies te volg of vir die voorkoms van omstandighede wat nie voorsien kon word kragtens die registrasieproses nie. Raadpleeg die verskaffer in geval van enigeonsekerheid.

VOORSORGMATREËLS

- Moenie spuitmies inasem nie.
- Dra rubberhandskoene en stelsels en 'n gesigskerm wanneer jy konsentreer hanteer en terwyl toediening plaasvind.
- Was na velkontak per ongeluk plaasgevind het.
- Moenie eet, drink of rook terwyl jy meng of toedien nie en na toediening moet hande en gesig eers gewas word voordat jy eet, drink of rook.
- Voorkom die dryf van spuitnewel oor gewasse, weivelde, riviere en damme asook areas wat nie onder bespuiting is nie.
- **SPOEL DRIE KEER** lê houers op die volgende manier. Keer die lê houër om oor die spuit of mengtenk en laat toe dat dit dreineer vir ten minste 30 sekondes, nadat die vloeistadiger geword het tot druppels. Daarna moet die houër drie keer gewas word met 'n volume water gelykstaande aan 'n minimum van 10% van die inhoud van die houër. Voeg die spoelings by die inhoud van die spuittenk voordat die houër vernietig word, volgens die voorgeskrewe manier.
- Maak die toedieningsapparaat skoon nadat dit gebruik is en moenie enige gewasse, weivelde, riviere en damme met die waswater besoedel nie.
- Vernietig die lê houër en moet dit nooit weer gebruik vir enige ander doeleindes nie.
- Voorkom besoedeling van voedsel, voiding, drinkwater en eetgerei

NOODHULPBEHANDELING

INDIEN IN DIE Oë: Was oë vir ten minste 15 minute onder lopende water, met oogde geopen. Raadpleeg 'n oogspesialis.

INDIEN INGESLUK : Spoel mond en drink baie water. Moenie braking forseer nie, tensy aanbeveel deur kontrolesentrum of dokter. Verky mediese behandeling. Moet nooit braking forseer, of enige iets deur die mond nee, waneer die slagoffer bewusteloos is nie, of stuiptrekkings kry nie.

INDIEN OP VEL: Was vel met baie seep en water. Indien daar irritasie ontwikkel, moet mediese behandeling verky word.

INDIEN INGEASEM: Hou die pasiënt kalm, neem pasiënt na buite waar daar vars lug is. Verky mediese behandeling.

NOTA AAN GENEESHEER

Behandel ooreenkomstig die simptome (ontsmetting, lewensfunksies).

WEERSTANDSWAARSKUWING EN BESTUUR

Vir weerstandsbestuur is, **HUMBOLT 840 WG** 'n groepkode B2 onkruidoder. Enige onkruidpopulasie mag individue bevat wat natuurlik weerstandig is tot die chemiese produk en ander groepkode B2 onkruidoders. Die weerstandige individue kan uiteindelik die onkruidpopulasie domineer indien die onkruidoders herhaaldelik toegedien word. Hierdie weerstandige onkruidde mag dalk nie deur **HUMBOLT 840 WG** of enige ander groepkode B2 onkruidoder beheer word nie.

Om onkruidoder weerstandigheid te vertraag.

- Vermey eksklusiewe herhaalde gebruik van onkruidoders van dieselfde onkruidoder groepkode.
- Wissel af met die tenkmengsel of met geregistreerde produkte van verskillende onkruidoder groepkodes.
- Voeg ander kontrole metodes by (chemiese, kulturele, biologiese) tot die onkruid kontrole program.
- Monitor elke veld op 'n seisoenale basis om die moontlike ontwikkeling van weerstand te bepaal.

Vir spesifieke inligting rondom weerstandsbestuur kan die registrasiehouer van die produk gekontak word. Cedar Falls Properties (Pty) Ltd kan nie verantwoordelikheid aanvaar vir enige verliese wat mag voortspruit uit die gebruik van **HUMBOLT 840 WG** om weerstandige onkruidde te beheer nie.

GEBRUIK BEPERKINGS

HUMBOLT 840 WG moet gebruik word in kombinasie met aanvullende onkruid/e vir 'n tenkmengsel. Hierdie tenkmengsels mag dalk die gewasse wat toegedien word onder hierdie omstandighede, beskadig.

- Indien die sade nie geplant is teen die diepte soos aanbeveel deur die LNR Graaggewas Instituut nie. Hierdie diepte is 50 – 75 mm vir grondboontjies en 20 – 60 mm vir sojabone

(afhange van die saadbedding en grondtoestande), moet hierdie plant diepte nagekom word.

- **HUMBOLT 840 WG** moet nie deur enige soort besproeiingsstelsel toegedien word nie.
- Vloedbesproeiing kan ook die effektiwiteit van onkruidbeheer verminder.
- Moenie **HUMBOLT 840 WG** gebruik:
 - Op swak gedreineerde gronde of gronde met 'n kompakte laag. Water deurdrenkte grond met die aanwesigheid van onkruidodders kan stand vermindering veroorsaak en/of die groei verminder en dit kan aanleiding gee tot verminderde opbrengs.
 - Op grond met 'n pH (H₂O) of 7 of meer.
 - Onder toestande van hewige reën en/of besproeiing op sandrige of gruis of klipperige grond.
 - Onder abnormale koue en/of abnormale nat toestande.
- Moenie **HUMBOLT* 840 WG** tenkmengsels toedien toe op ingeteelde ouer gewas kultivars sowel as eksperimentele of nuut vrygestelde kultivars, sonder om eers met die vervaardiger, verspreider of saadverskaffer in die verband te raadpleeg nie.
- **HUMBOLT* 840 WG** in 'n mengsel met FARMAG ACETOCHLOR 900 EC of ALACHLOR 384 EC of ALACHLOR 480 CS behoort toegedien te word voor gewasontkieming, soos voorgeskryf.
- Moenie hierdie **HUMBOLT* 840 WG** mengsels na opkoms op grondbone en sojabone toedien nie.
- Wanneer die tenkmengsel met ander onkruidodders en met **HUMBOLT* 840 WG** gemeng word, moet die waarskuwings, voorsorgmaatreëls, gebruik word. Beperkings en aanwysings op etiket voor gebruik van hierdie onkruidodders moet streng nagekom word.

MINIMUM HERPLANT INTERVALLE EN GEWAS ROTASIE RIGLYNE

Die minimum herplant interval is die tyd tussen die laaste toediening van **HUMBOLT* 840 WG** as 'n aanbevole tenkmengsels en die verwagte plantdatum van 'n soortgelyke gewas.

Om beskadiging aan soortgelyke gewasse te verhoed, behoort die volgende herplant intervale na gekyk te word:

TENK-MENGSELS VAN HUMBOLT* 840 WG	OPVOLGGEWASSE							
	KORING, HAWER, GARS	SONNEBLOM	DROE BONE	GRAAN SORGHUM	MIELIES	AARTAPPELS	SOYABONE	GROND-BOONTJIES
	HERPLANT INTERVALLE (MAANDE)							
(ALACHLOR 384 EC + HUMBOLT* 840 WG)	5	10	10	10	10	10	0	0
(ALACHLOR 480 CS + HUMBOLT* 840 WG)	5	10	10	10	10	10	0	0
FARMAG ACETOCHLOR 900 EC + HUMBOLT* 840 WG)	5	10	10	10	10	10	3	0

Belangrik:

- Vir alle ander gewasse wat nie in die tabel voorkom nie, sal 'n herplant interval van ten minste 24 maande voorafgaan word met 'n toetsplanting en gedurende hierdie periode waargeneem word.
- Die wagperiode in die tabel hierbo is slegs geldig wanneer:
 - Slegs een toediening van **HUMBOLT* 840 WG** per land gemaak is gedurende een seisoen.
 - Die aanbevole dosis van **HUMBOLT* 840 WG** in kombinasie met die tenkmengsel onkruidodder/s(oreenkomstig met die tipe van grond), toegedien is. Die aanbevole dosis op die etiket behoort geag te word as die maksimum gebruiksdosis van **HUMBOLT* 840 WG** in 'n seisoen.
 - Wanneer daar normale of selfs bogemiddelde reënval was en/of besproeiing gedurende en na die seisoen waarin die toediening gemaak is.

- Hierdie reën en/of besproeiing na toediening van **HUMBOLT* 840 WG** en voor die planting van die volgende gewasse behoort goed versprei te wees en in totaal ten minste 'n oppervlak van 350mm beslaan.
- Die land behoort te alle tye diep geploeg te word voordat 'n opvolg gewas geplant word.

ONKRUID KONTROLE

Die volgende onkruidspesies in LYS A word normaalweg gekontroleer deur vooropkoms toedienings van **HUMBOLT* 840 WG** in 'n mengsel met FARMAG ACETOCHLOR 900 EC of ALACHLOR 384 EC of ALACHLOR 480 CS teen 'n dosis soos voorgestel hieronder:

LYS A:

Eenjarige grasse:

<i>Brachiaria eruciformis</i>	litjiesinjal gras
<i>Chloris virgata</i>	witpluim Chloris
<i>Digitaria sanguinalis</i>	kruisvingeringer-gras
<i>Echinochloa crus-galli</i>	hanepootmanna
<i>Eleusine indica</i>	jongos gras
<i>Panicum schinzii</i>	buffelsgras
<i>Panicum maximum</i>	gewone buffelsgras
<i>Setaria pallide-fusca</i>	rooi borsel gras
<i>Setaria verticillata</i>	klits borsel gras
<i>Tragus racemosus</i>	groot wortel-saad gras
<i>Urochloa panicoides</i>	beesgras

Breeblaar onkruid:

<i>Amaranthus hybridus</i>	Kaapse misbredie
<i>Chenopodium album</i>	withondebossie
<i>Chenopodium carinatum</i>	groenhondebossie
<i>Cleome gynandra</i>	snotterbelletjie
<i>Cleome monophylla</i>	enkelblaar cleome
<i>Galinsoa parviflora</i>	knopkruid
<i>Schkuria pinnata</i>	kleinkakiebos
<i>Tribulus terrestris</i>	dubbeltjie

Kontrole van die volgende onkruid (LYS B) kan veranderlik wees indien vooropkoms toedienings van **HUMBOLT* 840 WG** in 'n mengsel met FARMAG ACETOCHLOR 900 EC (L9019) of ALACHLOR 384 EC (L5949) of ALACHLOR 480 CS gebruik word teen 'n dosis soos aangedui hieronder:

LYS B:

<i>Commelina benghalensis</i>	wandelende jood
<i>Crotalaria sphaerocarpa</i>	wildelusern
<i>Cyperus esculentus</i>	geeluintjie
<i>Datura ferox</i>	grootstinkblaar
<i>Datura stramonium</i>	gewone stinkblaar
<i>Gisekia pharmacoides</i>	Gisekia
<i>Hibiscus trionum</i>	terblansbossie
<i>Ipomoea purpurea</i>	purperwind
<i>Portulaca oleraceae</i>	porslein
<i>Tagetes minuta</i>	langkakiebos
<i>Xanthium strumarium</i>	kankerroos

Belangrik:

Geeluintjie (*Cyperus esculentus*):

Die kontrole van *Cyperus esculentus* kan verbeter word onder die volgende toestande:

- Deeglike ploeg met 'n rysterplaat. Ploeg net voor plant en die voorbereiding van 'n fyn, gelyke saadbedding.
- Die toediening van die onkruidodder word gevolg deur ten minste 15 mm (ligte grond) tot 25 mm (swaar grond) van sag deurdringende reën of besproeiing. Dit sal die onkruidodder laat deurspoel in die grond voor die verskyning/uitgroeiing van

Cyperus esculentus, wat normaalweg eers omtrent 7 – 10 dae na die voorbereiding van grond gebeur. Hierdie situasie is meer geneig om later in die plantseisoen (November) te gebeur.

- Reënval (of besproeiing) wat volg op onkruidodder toediening maar voor verskyning van **Cyperus esculentus** is nodig vir optimale kontrole van onkruid. Dit beteken dat die tenkmengsel behoort gedurende of dadelik na planting in die nat grond toegedien te word.
- Wanneer in droë grond geplant word, wat dalk nie genoegsame vog het nie, vir die ontkieming van geleuntjie, behoort die toediening te wees so na as moontlik, maar beslis voor die eerste reëns.

Die volgende toestande kan skadelike gevolge hê op die kontrole van onkruid in Lys A en B hierbo.

- 'n Swak voorbereide saadbedding.
- Grond met 'n pH (H,O) van > 5 en 'n organiese materiaal inhoud van meer as 3 %.
- Droë toestande na toediening en/of a gebrek aan voldoende reën op swaar gronde.

NOTA:

HUMBOLT* 840 WG mengsels kontroleer sommige eenjarige grasse en verskeie breëblaar onkruid soos gelys in Lys A en B hierbo. Ander eenjarige onkruid wat nie teenwoordig was gedurende die ontwikkelde proef met die produkte kan ook tot 'n sekere mate gekontroleer word. Nieteenstaande, die registrasiehouer aanvaar geen verantwoordelikeheid vir ongelyste onkruid nie.

GEBRUIKSAANWYSINGS

Gebruik slegs soos voorgeskryf

OOREENSTEMMIGHEID

Die ooreenstemmigheid van **HUMBOLT * 840 WG** in kombinasie met aanvullende produkte mag beïnvloed word deur die formulering van produkte betrokke sowel as die kwaliteit van die water. Siende dat die formulering van ander produkte mag verander sonder die kennis van die registrasiehouer, en waterkwaliteit mag wissel van plaas tot plaas, 'n fisiese ooreenstemmigheidstoets behoort te alle tye voor toediening gedoen te word.

MENG INSTRUKSIES

HUMBOLT* 840 WG waterdispergeerbare korrels word voorsien in water oplosbare sakkies wat deeglike meng benodig. Daar is 30g van die produk in elke sakkie. Tien 30g sakkies word verpak met foelie etiket, toegeriste sakkies wat hergebruik kan word. Hierdie sakkie kan 'n totaal van 300g van die produk (10x30g) hou.

Moenie wateroplosbare sakkies van die pak verwyder, tensy dit vir onmiddellike gebruik benodig word. Moenie die oplosbare sakkie buitengewoon baie hanteer nie of enige kontak met water moet vermy word voordat dit gebruik word want dit kan aanleiding gee dat die sakkie bars. Hou ongebruikte sakkies in

die toegeriste foelie verpakking.

HUMBOLT* 840 WG behoort vooraf gemeng te word met water tot 'n papperige mengsel. Wanneer die sakkies in die water geplaas is, roer onmiddellik en laat toe dat dit oplos. Die water behoort gerooi te word totdat die sakkie heeltemal opgelos is en die korrels versprei is. Hierdie mengsel kan bygevoeg word tot 'n spuittenk halfvol met water. Spoel die houër uit wat gebruik is om die vooraf mengsel te maak en voeg die spoeling by die spuittenk.

Daarna moet die verlangde hoeveelheid tenkmengsel onkruidodder bygevoeg word.

Vul die spuittenk met water totdat die finale volume verkry is. Verseker dat die mengsel in die tenk deeglik gerooi word gedurende die mengproses of die bespuiting. Tenkmengsels behoort onmiddellik gespuite te word en mag nie toegelaat word om in die spuittenk te staan nie.

TOEDIENING

Na-plant van gewas en vooropkoms van onkruid

Wanneer in vogtige grond geplant word, behoort **HUMBOLT* 840 WG** in 'n mengsels met FARMAG ACETOCHLOR 900 EC (L9019), ALACHLOR 384 EC (L5949) of ALACHLOR 480 CS binne drie dae voor plant aangewend word (maar verkieslik na plant) op 'n fyn, gelyke ferm en vars voorbereide saadbedding. Die toediening behoort nie later as drie dae na die finale verbouing of saadbedding voorbereiding plaas te vind nie. Die saadbedding behoort dan sonder onkruid, buitengewone plantafval en groot kluitte te wees.

Optimale onkruidbeheer sal bereik word indien daar voldoen word aan die voorgeskrewe toestande. Bykoms word, 12 – 15 mm van reën of besproeiing benodig binne sewe dae en voor die verskyning van die onkruid. Indien hierdie reënval nie voorkom nie en die onkruid begin verskyn, moet 'n vlak verbouing uitgevoer word om die saailing te vernietig en om die onkruidodder te meng in die boonste 10 – 20 mm in die grond. Verbouing toerusting kan aangepas word om vlak te werk wat die beweging van die grond tot 'n minimum sal hou en die moontlikheid om die onkruidodder te verdun of dit te verwyder van die onkruidkontrolesone.

Indien die grondkors as 'n moontlike probleem gesien kan word, kan die grond gedraaiskoffel word in dieselfde rigting as die rye. Dit mag die verskyning van die gewas verhoog asook die beweging van die grond minimeer. Om moontlike gewasstres te vermy en om ferm saailing groei te verbeter, verseker dat voldoende kunsmis naby die saad tydens plant geplaas word.

Grondtoediening [Na-plant van gewas en vooropkoms van saailing]

HUMBOLT* 840 WG kan as 'n tenkmengsel met enige medium of hoë volume spuit, wat behoorlik gekalibreer is en wat 'n doeltreffende skud meganisme het, toegedien word. Die keuse van die plasing van die verskillende waaier tipe spuitstukke behoort gedoen te word om te verseker dat daar eweredige verspreiding en optimale onkruidodder herstel plaasvind. Die aanbevole hoeveelheid van **HUMBOLT* 840 WG**

in die tenkmengsel behoort toegedien te word as 'n deeglike toediening in ten minste 200 lts water/ha. Indien dit toegedien moet word as 'n band toediening, perproorieel minder spuit mengsel behoort gebruik te word per hektaar.

TOEDIENINGSDOSISSE:

A. SOYABONE (Vooropkoms):

% KLEI	HUMBOLT* 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

B. GRONDBONE (Vooropkoms):

% KLEI	HUMBOLT 840 WG (g/ha)	PLUS FARMAG ACETOCHLOR 900 EC (ℓ/ha)
0 – 10	10	0.75
11 - 20	15	1.00
21 - 30	20	1.00 – 1.50



HUMBOLT 840 WG

Reg. No.: L10252 Act/Wet No. 36 of/van 1947

A water dispersible granule herbicide for use in tank mixtures for pre- emergence control of annual grasses, broadleaf weeds and under certain conditions, yellow nutsedge in groundnuts and soybeans.

'n Waterdispergeerbare korrel onkruidodder vir gebruik slegs in tenkmengsel vir voor-opkomeer van eenjarige grasse, breëblaaronkruid en onder sekere toestande ook geeluintjies in grondbone en sojabone.

HERBICIDE GROUP CODE:	B2	ONKRUIDDODER GROEPKODE
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ACTIVE INGREDIENT/AKTIEWE BESTANDEEL:

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

Manufacture Date:
Vervaardigingsdatum:

Batch No.:
Lotnommer:

NET MASS/ INHOUD

 Kg

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

22 Burnside Drive, Old Mill Industrial Park, Mount Edgecombe, South Africa, 4300 • Tel. (031) 502 4196

• **Emergency Number: Griffon Poison Information Centre**

UN No.: 2092



CAUTION
VERSIGTIG

