

SPECTRUM 538 SE

Reg. No. / Nr L10513 Act No. 36 of 1947/ Wet Nr 36 van 1947

HERBICIDE



**READ THE LABEL AND ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

HRAC HERBICIDE GROUP CODE:

27+15+5

HRAC ONKRUIDDODERGROEP CODE:

A pre- and post-emergence herbicide for the control of annual grass and broadleaf weeds in maize and sugarcane.

'n Voor en na-opkoms onkruidodder vir die beheer van eenjarige grasse en breëblaaronkruiden in mielies en suikerriet.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Mesotrione (callistemonine).....37,5 g/ℓ.....mesotrioone (callistemoons)
S-metolachlor (chloroacetanilide).....375g/ℓ.....S-metolachloor (chloorasetanilied)
terbuthylazine (triazine).....125 g/ℓ.....terbutielasien (triasien)



DANGER

Hazard Statements:

May be harmful if swallowed.
May be harmful in contact with skin.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic if inhaled.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects

Precautionary Statements:

Do not breathe vapours, spray.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of drum for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.

VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3082



REGISTRATION HOLDER/ REGISTRASIEHOUER
Cedar Falls Properties 130 (Pty) Ltd.
Reg. No. / Nr. 2006/031383/07
61 Marshall Drive, Old Mill Industrial Park,
Mount Edgecombe.
Tel: (031) 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



BARCODE

100767

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

100767

WARNINGS:

Hazard Statements: May be harmful if swallowed. May be harmful in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

• **Pre-Harvest Interval:** Minimum number of days between the last application and harvest or feeding:

Sugarcane.....180 days (6 months)

Maize.....56 days

- Keep under lock and key in a cool, dry and well-ventilated place.
- Keep away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry Interval: Do not enter treated field within 1 day of application unless wearing protective clothing.
- Aerial application warning: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

DISCLAIMER:

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 the weeds against the remedy concerned, as well as 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 humans, animals 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 event of any uncertainty.

PRECAUTIONS

Precautionary Statements

General: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Prevention: Do not breathe vapours, spray. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/ eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor. Call a poison center or doctor if you feel unwell. Get medical advice/attention if you feel unwell. Specific treatment (see supplemental first aid instruction on this label). If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents and container to an approved waste disposal plant.

- Prevent spray drift onto other crops, grazing, rivers and dams and areas not under treatment.
- **TRIPLE RINSE the empty container as follows:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Destroy empty container and do not use for any other purpose.
- Clean applicator after use and do not contaminate crops, grazing, rivers and dams with wash water.
- Prevent contamination of food, feed, drinking water and eating utensils.
- After spraying, remove and wash work clothes and yourself.

RELEVANT SUBSTANCES:

NAME	PRODUCT IDENTIFIER
S-metolachlor 97% TC	CAS-No.: 87392-12-9
Terbuthylazine 97% TC	CAS-No.: 5915-41-3
Tristyrylphenol Ethoxylates	CAS-No.: 99734-09-5
Mesotrione 97% TC	CAS-No.: 104206-82-8
Sodium Dioctyl Sulphosuccinate sodium salt	CAS-No.: 577-11-7
Amine salt of polyaryphenyl ether phosphate	CAS-No.: 105362-40-1
Polyethylene glycol	CAS-No.: 25322-68-3

FIRST AID TREATMENT

IF IN EYES:	Wash eyes for at least 15 minutes under running water, with eyelids held open. Consult a doctor or an eye specialist.
IF SWALLOWED:	Rinse mouth and then drink plenty of water. Do not induce vomiting, unless told to 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, warm and at rest. Remove from exposure and to fresh air. Seek medical attention.

NOTE TO PHYSICIAN

Treat according to symptoms (decontamination, vital functions)

No known specific antidote.

Keep patient under observation until all symptoms have gone.

If required, perform gastric lavage but only if the patient is not unconscious.

Prevent aspiration of gastric material.

Administer activated charcoal if considered necessary.

RESISTANCE MANAGEMENT/WARNING

SPECTRUM 538 SE is a group code 27, 15 and 5 herbicide. Any weed population may contain individuals naturally resistant to **SPECTRUM 538 SE** and other group codes 27, 15 and 5 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **SPECTRUM 538 SE** or any other group codes 27, 15 and 5 herbicide.

To delay herbicide resistance:

- Avoid exclusive and repeated use of herbicides from the same herbicide group codes.
- Alternate or tank mix with products from different herbicide group codes
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

The herbicides in **SPECTRUM** have three different modes of action, which can be a significant benefit in a resistance management strategy. However, it is still advisable to use in rotation with products which have other modes of action and in combination with cultural methods of weed control. This strategy will maximize the defense against the development of herbicide resistant weeds.

Do not use **SPECTRUM** with other herbicides that are HPPD inhibitors within the same growing season.

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

MODE OF ACTION:

Mesotrione: Selective, systemic herbicide, absorbed by foliage and roots, translocated acropetally and basipetally in the phloem and xylem.

S-Metolachlor: Selective herbicide, absorbed primarily by hypocotyls and shoots. Inhibit germination. Maize selectivity is primarily due to conjugation with glutathione (GSH) catalysed by glutathione S-transferase (GST). The biologically active enantiomer of metolachlor.

Terbuthylazine: Selective, systemic herbicide, absorbed primarily by roots, but also by foliage, translocated acropetally in the xylem and accumulating in the apical meristems and leaves.

USE RESTRICTIONS:

- **Insecticides:** **SPECTRUM 538 SE** should not be applied post-emergence in tank-mix with an organophosphate (e.g. Chlorpyrifos). If a carbamate insecticide (e.g. Carbofuran) is to be used at planting, allow 3 weeks to elapse before application of **SPECTRUM 538 SE**.
- **Soil Moisture:** Rain or overhead irrigation of more than 20 mm within 1 to 2 weeks of the application of **SPECTRUM 538 SE** is necessary for optimal weed control.
- Do not apply **SPECTRUM 538 SE** to soils with a high organic matter (>3 %), with excessive trash or burnt sugarcane rubble, as reduced residual activity can be expected.
- **SPECTRUM 538 SE** should not be applied through drip irrigation systems or through flood irrigation.

DIRECTIONS FOR USE: **Use only as indicated.**

Compatibility

SPECTRUM 538 SE is compatible with registered versions of the following products:

- s-Metolachlor 960g/l EC
- GAP Paraquat 200 SL (L9059)
- Farmag Hexaxinone 750WG (L8402),
- Lambda-cyhalothrin 50g/l EC
- Farmag Metribuzin 480g/l SC (L7731),
- Brigadier (halosulfuron-methyl) (L9218)

Since variations may exist between formulations of products containing the same active ingredients, it is recommended that the compatibility of **SPECTRUM 538 SE** with alternate, registered versions of the above list must be tested on a small scale before being used on commercial scale in spray mixtures.

Application through irrigation systems (only for pre-emergence weed control):

- **SPECTRUM 538 SE** should only be applied through a centre-pivot irrigation system for pre-emergence weed control and the pivot must be well-operated, well-maintained and be equipped with an injector system.
- When applying **SPECTRUM 538 SE**, the centre pivot should apply between 4,5 mm and 7,5 mm of water and then control should be for at least 70 - 84 days (10 - 12 weeks).
- Ensure correct application rates by carefully setting injection rate and make sure it is correct.
- Application should be done within 2 days of planting or before the emergence of any weeds.
- The fields should be well prepared with a fine seedbed and with no germinating or established weeds.
- Once **SPECTRUM 538 SE** has been applied, the centre pivot should be set to apply the following water volumes if sufficient rain has not fallen:
10 mm water per ha when clay content < 20%
15 mm water per ha when clay content is 20 - 35%
20 mm water per ha when clay content > 35%
- Keep the soil wet for a period of 7 - 14 days after application.
- Do not apply **SPECTRUM 538 SE** through the irrigation system in excessive wind speeds (wind speed should be < 20 km/hr).
- Ensure that centre pivots do not overlap with each other as serious over-dosage and possible crop damage could occur.
- Centre pivots used for application should be well maintained as breakages or stoppages could also lead to over application and crop damage.
- Take care not to contaminate boreholes or dams with accidental spillages of chemicals in the irrigation system.
- Injection of **SPECTRUM 538 SE** close to or at the centre of the pivot is preferable. Both the injector pump and the water pump should be fitted with valves to stop injection as soon as the pivot's forward movement is stopped.
- The main irrigation water supply line should also be fitted with a non-return valve to prevent treated water to run back into the supply source.

Aerial application:

Aerial application of **SPECTRUM 538 SE** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Flying height:** The height of the spray boom should be maintained at 3 to 4 metres above the target. Do not spray when aircraft is in a climb, at the top of, or during a dive, or when banking.
- **Droplet size:** Use suitable atomising equipment (hydraulic nozzles or rotary atomizers) that will produce the desired droplet size (350 – 400microns) and coverage, but which will ensure the minimum loss of product either through endo drift (within target field) or exo drift (outside target field). The production of smaller droplets (< 150 microns) should be kept to a minimum.
- **Nozzle placing:** All nozzles/atomisers should be positioned within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- **Weather conditions:** The difference between the wet and dry bulb thermometers of a whirling hygrometer should not exceed 8 °C.
- Wind speed should not exceed 15km/hr. Application of this product must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur. Also, spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air which will lead to inadequate coverage.
 - b) damage to other sensitive crops and/or non-target areas through the movement of the suspended spray cloud away from the target field to non-targeted areas.
 - c) avoid the drift of spray onto unintended areas at all times.

NB: Ensure that the aerial spray operator knows exactly which fields to spray and obtain assurance from the operator that the above requirements will be met and that relevant data will be compiled in a spray log and kept for future reference.

Ground/Tractor Application

Apply by means of a tractor mounted boom sprayer, which is correctly calibrated to deliver at least 200 - 300 lts spray mixture/ha.

The spray mixture should be continuously agitated.

Avoid overlapping of spray swaths.

Use flat fan hydraulic nozzles (110°C) for optimum coverage.

After application, 10 - 20 mm of rain or irrigation is needed to leach the chemical into the germination zone.

If this does not happen within 14 days of application, reduced efficacy can be expected.

Follow-up Crops: Waiting period before planting

- Maize and sugarcane have a zero waiting period before they can be planted, following an application of **SPECTRUM 538 SE**
- The following crops have a minimum waiting period of 9 months after the application of **SPECTRUM 538 SE** before they can be planted:

Barley
Dry beans
Grain sorghum
Groundnuts
Potatoes
Soybeans
Sunflowers
Wheat.

All other crops have a 24 month waiting period before they can be planted:

Mixing instructions:

- Use only clean water.
- The use of registered buffers is recommended. However, the pH should not be allowed to go below 6.5.
- Fill the spray or pre-mix tank with clean water and agitate. Agitation must continue throughout the mixing and spraying operation. When the spray or pre-mix tank is half full with water, add **SPECTRUM 538 SE** slowly and agitate until completely dispersed. Paraquat 200 SL can be added now whilst agitating continuously.
- **SPECTRUM 538 SE** must be applied the same day as mixing.

APPLICATION RATES

1.0 SUGARCANE: (Plant- and Ratoon cane)

Pre-emergence and Early post-emergence application of both sugarcane and weeds.

• The clay content of the soil does not affect the dosage rate of **SPECTRUM 538 SE**:

• **SPECTRUM 538 SE**: must be applied either pre-emergence or early post emergence of the weeds.

• Grasses should not be larger than 2 - 3 leaves without any tillers

• Broadleaf weeds should not be larger than the 4 - 6 leaf stages.

• Applications should be made during late spring and summer season when the chance of rain is high.

• **SPECTRUM 538 SE** will give long residual activity under favorable climatic conditions. Residual activity of at least 10 - 12 weeks can be expected when conditions are favorable.

• PARAQUAT 200 SL should be added when **SPECTRUM 538 SE** is applied early post emergence on grasses. It is added to the spray mixture at a rate of 500 ml/ha.

• Applications of **SPECTRUM 538 SE** + PARAQUAT 200 SL can be applied broadcast in ratoon cane up to a height of 30 cm. In plant cane PARAQUAT 200 SL should not be applied later than the spike stage of the crop. (Refer to the PARAQUAT 200 SL label).

• **SPECTRUM 538 SE** can be applied where drip irrigation is being used. However, drip irrigation is not sufficient to distribute the herbicide in the absence of rainfall. At least 20mm of overhead irrigation or rainfall is required.

• All pre-emergence applications of **SPECTRUM 538 SE** will control both the broadleaf weeds and grasses mentioned in the Table below.

• Any registered s-Metolachlor 960g/l EC can be added to the **SPECTRUM 538 SE** plus PARAQUAT 200 SL mixture to increase the residual grass control. Refer to relevant s-Metolachlor 960g/l EC label for dosage rates.

For all **post-emergence** applications of **SPECTRUM 538 SE** a tank mixture with a **suitable, registered adjuvant** is recommended.

SPECTRUM 538 SE 3.33 l/ha	Plus a recommended adjuvant
Botanical name	Common name
<i>Ageratum conyzoides</i> <i>Amaranthus hybridus</i> <i>Brachiaria deflexa</i> <i>Brachiaria nigropedata</i> <i>Commelina benghalensis</i> <i>Digitaria sanguinalis</i> <i>Digitaria ternata</i> <i>Eleusine indica</i> <i>Panicum deustum</i> <i>Parthenium hysterophorus</i> <i>Portulaca oleracea</i> <i>Richardia brasiliensis</i> <i>Sesbania bispinosa</i> <i>Sida cordifolia</i> <i>Sida spinosa</i> <i>Tragus berteronianus</i> <i>Urochloa panicoides</i>	invading Ageratum common pigweed false signal grass black footed grass Benghal wandering Jew crab finger grass black seed finger grass goose grass broadleaf Panicum Dimoina weed purslane tropical Richardia spiny Sesbania heart-leaf Sida spiny Sida small carrot seed grass herringbone grass

Additional weed control can be achieved with use of higher rates as indicated below:

SPECTRUM 538 SE 4 to 5 ℓ / ha	PLUS registered adjuvant (all Early post-emergence applications)
Weeds controlled	
Botanical name	Common name
<i>Acanthospermum hispidum</i>	Upright starbur
<i>Abutilon sonneratianum</i>	White Hibiscus
<i>Ageratum conyzoides</i>	Invading Ageratum
<i>Amaranthus hybridus</i>	Common pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus deflexus</i>	Perennial Pigweed
<i>Amaranthus viridis</i>	Slender amaranth
<i>Amaranthus thunbergii</i>	Thunberg's pigweed
<i>Bidens Pilosa</i>	Blackjack
<i>Coronopus didymis</i>	Swinecress
<i>Chamaesyce spp.</i>	Prostrate surge
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Cleome monophylla</i>	Single-leaved cleome
<i>Commelina benghalensis</i>	Wandering Jew
<i>Convolvulus arvensis</i>	Field bindweed
<i>Corchorus trilocularis</i>	Wild jute
<i>Crotalaria sphaerocarpa</i>	Mealie crotalaria
<i>Datura ferox</i>	Large thorn apple
<i>Datura stramonium</i>	Common thorn apple
<i>Digitaria nuda</i>	Crab grass
<i>Eleusine coracana</i>	Finger millet
<i>Hibiscus cannabinus</i>	Wild stock-rose
<i>Hibiscus trionum</i>	Bladder hibiscus
<i>Ipomoea purpurea</i>	Common morning glory
<i>Kyllinga erecta</i>	White sedge
<i>Nicandra physaloides</i>	Apple-of-Peru
<i>Parthenium hysterophorus</i>	Demoina weed
<i>Portulaca oleracea</i>	Purslane
<i>Pseudo brachiaria deflexa</i>	False signal grass

<i>Richardia brasiliensis</i>	Mexican Richardia
<i>Sesbania bispinosa</i>	Spiny sesbania
<i>Senecio polyanthemoides</i>	Many flowered Rawort
<i>Setaria pallide-fusca</i>	Garden bristle grass
<i>Sida cordifolia</i>	Heart-leaf sida
<i>Sida rhombifolia</i>	Arrow-leafsida
<i>Sida spinosa</i>	Spiny sida
<i>Sonchus oleraceus</i>	Common sowthistle
<i>Sonchus asper</i>	Pricky sowthistle
<i>Solanum nigrum</i>	Black Nightshade
<i>Tagetes minuta</i>	Khaki weed
<i>Tribulus terrestris</i>	Devil's thorn

The addition of PARAQUAT 200 SL at 500ml per ha and the mixture is applied early post emergence, the following grasses will also be controlled:

SPECTRUM 538 SE 4-5 ℓ/ha Plus Paraquat 200 SL 500ml/ha Plus registered adjuvant	
Weeds Controlled	
<i>Brachiaria deflexa</i>	False signal grass
<i>Brachiaria nigropedata</i>	Black footed signal grass
<i>Cyperus esculentus</i>	Yellow nutsedge
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Digitaria ternata</i>	Black seed finger-grass
<i>Echinochloa colona</i>	Marsh grass
<i>Eleusine indica</i>	Goose grass
<i>Panicum deustum</i>	Broadleaf Panicum
<i>Panicum maximum</i>	Common buffalo grass
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Tragus berteronianus</i>	Small carrot-seed grass
<i>Urochloa mosambicensis</i>	Bushveld herringbone grass
<i>Urochloa panicoides</i>	Herringbone grass

2.0 MAIZE :
(Conventional and glyphosate tolerant maize)
An early post emergence application on both maize and weeds:

Addition of adjuvant: In all early post emergence applications of **SPECTRUM 538 SE** a suitable, registered adjuvant must be used:

SPECTRUM 538 SE 3.33 l/ha	plus a recommended adjuvant
Botanical name	Common name
<i>Ageratum conyzoides</i> <i>Amaranthus hybridus</i> <i>Brachiaria deflexa</i> <i>Brachiaria nigropedata</i> <i>Commelina benghalensis</i> <i>Digitaria sanguinalis</i> <i>Digitaria ternata</i> <i>Eleusine indica</i> <i>Panicum deustum</i> <i>Parthenium hysterophorus</i> <i>Portulaca oleracea</i> <i>Richardia brasiliensis</i> <i>Sesbania bispinosa</i> <i>Sida cordifolia</i> <i>Sida spinosa</i> <i>Tragus berteronianus</i> <i>Urochloa panicoides</i>	invading Ageratum common pigweed false signal grass black footed grass Benghal wandering Jew crab finger grass black seed finger grass goose grass broadleave Panicum Dimoina weed purslane tropical Richardia spiny Sesbania heart-leaf Sida spiny Sida small carrot seed grass herringbone grass

WAARSKUWINGS:

Gevaarstellings: Kan skadelik wees indien ingesluk. Kan skadelik wees in kontak met die vel. Veroorsaak ligte velirritasie. Kan 'n allergiese velreaksie veroorsaak. Veroorsaak ernstige oogirritasie. Giftig indien ingesam. Mag skade aan organe veroorsaak deur langdurige of herhaalde blootstelling. Baie giftig vir waterlewe met langdurige effekte.

Onthoudingsperiodes:

(Minimum aantal dae tussen laaste toediening en oes of beweiding):

Suikerriet 180 dae (6 maande)

Mielies 56 dae

- Hou agter slot en grendel in 'n koel droë plek
- Bêre weg van voedsel, voer, saad, kunsmis en ander landou chemikalieë
- Hou buite bereik van kinders, oningeligte persone en diere.

• **Herbetreding:** moet nie behandelde gebied betree binne 1 dag na toediening nie tensy beskermde oorklere gedra word

Lugtoediening: Stel al die bewoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit. Moet nie oor water of aangrensende gebiede spuit of die spuitnewel toelaat om dit te besoedel nie.

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:

Voorsorgstellings

Algemeen: Indien mediese advies benodig word, hou produkhouer of etiket byderhand. Hou buite bereik van kinders. Lees etiket voor gebruik.

Voorkoming: Moet nie dampe inasem nie, spuit. Was hande, voorarms en gesig deeglik na hantering. Gebruik slegs buite of in 'n goed geventileerde area. Besoedelde werksklere moet nie uit die werkplek toegelaat word nie. Vermy vrylating na die omgewing. Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming.

Reaksie: INDIEN OP DIE VEL: Was met baie water. INDIEN INGESAEM: Verwyder persoon na vars lug en hou gemaklik om asem te haal. INDIEN IN OÊ: Spoel versigtig uit met water vir 'n paar minute. Verwyder kontaklense, indien teenwoordig en maaklik om te doen. Gaan voort met spoel. Bel 'n gifsentrum of dokter. Bel 'n gifsentrum of dokter as jy onwel voel. Kry mediese advies/aandag as jy onwel voel. Spesifieke behandeling (sien aanvullende noodhulpinstruksies op hierdie etiket). Indien velirritasie voorkom: Kry mediese advies/aandag. Indien velirritasie of uitslag voorkom: Kry mediese advies/aandag. Indien oogirritasie voortduur: Kry mediese advies/aandag. Trek besoedelde klere uit en was dit voor hergebruik. Versamel gemors.

Berging: Berg in 'n goed geventileerde plek. Hou die houer dig toe. Stoor toegesluit.

Wegdoening: Gooi inhoud en houer weg na 'n goedgekeurde afvalverwyderingsaanleg.

- Vermy oorvaai van spuitnewel na ander gewasse, weiding, riviere, damme en gebiede wat nie onder behandeling is nie

SPOEL die leë houer DRIEKEER UIT soos volg: Keer die leë houer om oor die spuit- of mengtenk en dreineer vir ten minste 30 sekondes nadat die vloei tot drup verlangsaam het. Spoel die leë houer daarna drie keer agtereenvolgens uit met een kwart van die houervolume vars water en gooi die spoelwater in die spuit- of mengtenk. Prik die drieluigdig uitgespoelde houer deur en gooi weg via 'n goedgekeurde versamelaar of herwinner (www.croplife.co.za). Moet nie die houer begrawe, verbrand of skenk aan enige ander partye wat dit as 'n houer vir kos of drank kan gebruik nie.

- Vernietig leë houer en moet dit nie vir enige ander doel hergebruik nie.

- Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.

- Na toediening trek werksklere uit en was dit en Usel.

RELEVANTE STOWWE

NAAM	PRODUK IDENTIFISEERDER
S-Metolachloor 97% TS	CAS-No.: 87392-12-9
Terbutielasien 97% TS	CAS-No.: 5915-41-3
Tristiryflfenol-etoksilate	CAS-No.: 99734-09-5
Mesotrioön 97% TS	CAS-No.: 104206-82-8
Natrium Dioktiel Sulfosuksinaat natrium sout	CAS-No.: 577-11-7
Amiensout van poliarifenieleterfosfaat	CAS-No.: 105362-40-1
Poliëtileenglikol	CAS-No.: 25322-68-3

NOODHULPBEHANDELING:

Oogkontak:	Spoel onmiddellik met 'n oogspoelmiddel of skoon water en hou die ooglede weg van mekaar en spoel vir ongeveer 15 minute. Verkry onmiddellik mediese aandag
Inname	Indien ingesluk drink baie water. Moet nie braking veroorsaak nie, tensy so aanbeveel deur 'n gifbeheer sentrum of 'n mediese dokter. Kry onmiddellik mediese advies. Moet nooit braaking induseer en moet nie enigiets per mond vir 'n bewustelose persoon gee nie.
Velkontak:	Was vel dadelik met water en daarna met seep en water. Indien irritasie van vel ontwikkel kry mediese hulp.
Inaseming:	Verwyder pasiënt van blootstelling, hou hom warm en rustig. Kry mediese advies as 'n voorsorg

NOTA AAN GENEESHEER:

Behandel die pasiënt simptomaties (dekontamineer, lewensbelangrike funksis.) Geen spesefieke teenmiddel bekend nie. Hou pasiënt onder observasie tot alle simptome verdwyn het. Indien benodig pas maagspoeling toe, maar net as pasiënt nie bewusteloos is nie. Voorkom aspirasie van maaginhoud. Oorweeg die toediening van mediese koolstof as nodig geag word.

WEERSTANDSBESTUUR:

SPECTRUM 538 SE is 'n groepkode 27, 15 en 5 onkruidodder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **SPECTRUM 538 SE**, of enige ander groepkode 27, 15 of 5 onkruidodder het. Indien hierdie onkruidodders in herhaaldelike en eksklusiewe programme aangewend word, kan die weerstandbiedende individue uiteindelik die onkruid populasie oorheers. Hierdie weerstandbiedende onkruide sal waarskynlik nie deur **SPECTRUM 538 SE** of enige ander groepkode 27, 15 of 5 onkruidodder, beheer word nie.

Om Weerstand Teen Onkruidodders Te Vertraag:

- Verminder die herhaaldelike en eksklusiewe gebruik van onkruidodders in dieselfde onkruidodder groepkode.
- Wissel af met, of gebruik tenkmengels van produkte in verskillende onkruidodder groepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidodder programme.

Die aktiewe bestanddele van **SPECTRUM 538 SE** is 'n mengsel van produkte met drie verskillende werkswyses. Dit opsigself verteenwoordig 'n uitstekende weerstand strategie.

Die gebruik van **SPECTRUM 538 SE** in rotasie met onkruidodders met ander werkswyses en in kombinasie met bewerkingspraktyke bied die beste versekering teen die ontwikkeling van weerstandbiedendheid.

Moet nie **SPECTRUM 538 SE** gebruik saam met ander HPPD inhibeerders in dieselfde groeiseisoen nie.

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

WYSE VAN AKSIE

Mesotrioön: Selektiewe, sistemiese onkruidodder, geabsorbeer deur blare en wortels, akropetaal en basipetaal getranslokeer in die floëem en xileem.

S-Metolachloor: Selektiewe onkruidodder, geabsorbeer hoofsaaklik deur hipokotiele en lote. Inhibeer ontkieming. Mielieselektiwiteit is hoofsaaklik as gevolg van konjugasie met glutathione (GSH) wat deur glutathione S-transferase (GST) gekataliseer word. Die biologiese aktiwiteit enantiomeer van metolachloor.

Terbutielasien: Selektiewe, sistemiese onkruidodder, geabsorbeer hoofsaaklik deur wortels, maar ook deur blare, akropetaal getranslokeer in die xileem en ophoop in die apikale meristeme en blare.

GEBRUIKSBEPERKINGS:

- Insekodder: **SPECTRUM 538 SE** mag nie na-opkoms toegedien word in tenkmengsels met organofosfate bv chlorpirifos nie. Indien karbamate (bv. Carbofuran) met plant toegedien is, kan **SPECTRUM 538 SE** eers minstens 21 dae daarna toegedien word.
- Grondvog: **SPECTRUM 538 SE** benodig reën of oorhoofse besproeiing van meer as 20 mm binne 1 tot 2 weke na toediening om voldoende onkruidbeheer te voorsien.
- Moenie **SPECTRUM 538 SE** op gronde met hoë organiese inhoud (> 3 %) of met baie stoppel en kaf op, toedien nie, want nawerking van **SPECTRUM 538 SE** sal benadeel word.
- **SPECTRUM 538 SE** mag nie deur gewone, drup of vloed besproeiings stelsels toegedien word nie.

GEBRUIKSAANWYSINGS:

Gebruik slegs soos aangedui.

Verenigbaarheid:

SPECTRUM 538 SE is verenigbaar met die volgende geregistreerde produkte:

- s-Metolachlor 960g/l EC
- GAP Paraquat 200 SL (L9059)
- FARMAG HEXAXINONE 750WG (L8402),
- Lambda-cyhalothrin 50g/l EC
- FARMAG METRIBUZIN 480g/l SC (L7731),
- BRIGADIER (halosulfuron-methyl) (L9218)
- Verskille tussen formulasies van produkte wat dieselfde aktiewe bestanddele bevat, mag voorkom. Daarom moet verenigbaarheids toetse op 'n klein skaal van dié spesifieke formulasies, van alternatiewe geregistreerde produkte met dieselfde aktiewe bestanddeel, uitgevoer word, alvorens die mengsels op kommersiële skaal gebruik word.

Toediening Deur Besproeiingstelsels (slegs vir vooropkoms onkruidbeheer):

- **SPECTRUM 538 SE** kan slegs met behulp van 'n spilpunt besproeiingsstelsel vir vooropkoms onkruidbeheer toegedien word en die spilpunt moet goed bestuur en onderhou word met 'n inspuitsisteam toegerus is.
- Tydens die toediening van **SPECTRUM 538 SE** moet die spilpunt tussen 4,5 mm en 7,5 mm water toedien, en sal beheer vir ten minste 70 - 84 dae (10 - 12 weke)
- Bereken die toedieningstempo versigtig en verseker die korrektheid daarvan.
- Toediening moet binne 2 dae van plant geskied, voor die enige onkruid ontkiem, slegs op lande wat goed voorberei is, 'n goeie fyn saadbed het en waar geen ontkiemende of gevestigde onkruid voorkom nie.
- Sodra **SPECTRUM 538 SE** toegedien is, moet die volgende volumes water toegedien word indien genoegsame reën nie voorgekom het nie
- 10 mm water per ha by 'n klei persentasie van < 20%
- 15 mm water per ha by 'n klei persentasie van 20 tot 35%
- 20 mm water per ha by 'n klei persentasie van > 35%
- Hou die grond nat vir 'n periode van 7 tot 14 dae na toediening
- Moenie **SPECTRUM 538 SE** deur die spilpunt toedien in oormatige windige toestande nie (windspoed moet < 20 km / uur wees)
- Wees versigtig dat die spilpunt aan die einde van die toedieningsperiode nie oorvleuel met die beginpunt aangesien onnodig oordosering kan plaasvind wat tot gewas skade kan lei
- Spilpunte moet goed onderhou word want onnodige stop en brekasies tydens die toediening van **SPECTRUM 538 SE** deur die spilpunt kan lei tot oordosering en moontlike gewasskade.
- Sorg dat boorgate en damme nie gekontamineer word met chemikalieë wat in spilpunt mag wees mag wees nie.

- Die toediening van **SPECTRUM 538 SE** moet verkieslik naby die middelpunt van die spilpunt gedoen word. Beide die toedieningspomp en die waterpomp moet van kleppe voorsien wees wat toediening sal staak sodra die voorwaartse beweging van die spilpunt stelsel gestaak word.
- Die water toevoerpyp moet ook van 'n klep voorsien word wat sal verhoed dat behandelde water terugvloei na die waterbron.

Lugtoediening

- **SPECTRUM 538 SE** mag slegs deur lugbespuiting toegedien word deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS 10118 ("Aerial application of Agricultural Remedies").
- Dit is belangrik om te verseker dat die spuitmengsel eweredig oor die teikenarea versprei word en dat die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is dus belangrik om aan die volgende kriteria te voldoen:
- **Vlieghoogte:** Die hoogte van die spuitbalk moet op 3 - 4 meter bokant die teiken gehandhaaf word. Moet nie spuit wanneer die vliegtuig aan die bopunt is van, of tydens 'n duik nie, of terwyl dit opstyg of draai nie.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 350 - 400 mikrons word aanbeveel. Verseker dat die produksie van fyn druppels (kleiner as 150 mikrons - hoë drywing en verdampingspotensiaal) tot 'n minimum beperk word, maar wat die minste verlies van produk deur endodrywing (binne die teikenarea) of eksodrywing (buite die teikenarea) sal verseker.
- Al die spuitpunte / atomiseerders moet in die binneste 60% tot 75% van die vlerkspan geplaas word om die beweging van druppels in die vlerkvorteks in te beperk
- **Meteorologiese toestande**
Die verskil in temperatuur tussen die nat- en droëbol termometer van 'n swaaihygrometer, moet nie 8°C oorskry nie. Staak toediening indien die windspoed 15 km/uur oorskry
- **SPECTRUM 538 SE** moet nie uit die lug toegedien word tydens onstabiele, turbulente toestande gedurende die hitte van die dag wanneer stygende en dalende konveksie windbeweging plaasvind nie. Dit is belangrik om daarop te let dat die lugtoediening van **SPECTRUM 538 SE** onder temperatuur inversie toestande (deur, bo of binne die inversie laag te spuit) en / of hoë humiditeit (relatiewe humiditeit 80 % en hoër) tot die volgende probleme mag aanleiding lei.
- Verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken)
- Skade aan ander nie-teiken gewasse of ander sensitiewe areas a.g.v die wegdrywing van die druppels awt as 'n wolk in die lug bly hang.
- Verminderde wegdrywing na nie teiken gebiede teen alle tye.

NB: Verseker dat die lugbespuitingsoperateur weet presies watter lande gespruit moet word en dit is noodsaaklik om 'n versekering van die spuitoperateur te verkry dat aan bogenoemde voldoen sal word. Sorg dat die lugbespuitingsoperateur die relevante data in 'n Logboek aanteken en dit behou vir toekomstige verwysing.

Grond / Trekker Toediening

- Dien toe deur middel van 'n trekkergemonteerde spuitbalk wat korrek gekalibreer is met aanhoudende roering om ten minste 200 tot 300 l spuitmengsel/ha te lewer.
- Voorkom oorvleueling van spuitwydtes.
- Platwaaier hidroliese spuitpunte (110°C) word aanbeveel vir optimale bedekking.
- Reën of besproeiing van 10 tot 20 mm is nodig na toediening om die middel tot in die ontkiemingsone te loog.
- As hierdie neerslag nie binne 14 dae van toediening plaasvind nie kan 'n verlaagde effektiwiteit verwag word.

Opvolggewasse: Wagperiode voor plant.

- Mielies en suikerriet zero maande wagperiode voor hulle geplant kan word.
- Die volgende gewasse het 'n wagperiodes van 9 maande vanaf die toediening van **SPECTRUM 538 SE** voor hulle geplant kan word:

Gars
Droëbone
Graansorghum
Grondbone
Aartappels
Sojabone
Sonneblom
Koring

- Alle ander gewasse het 'n 24 maande wagperiode voor hulle geplant kan word.

Menginstruksies:

- Gebruik net skoon water
- Die gebruik van geregistreerde Buffer middel word aanbeveel. Die Ph moet nie onder 6,5 wees nie.
- Vul die spuit- of mengtenk met skoon water en aktiveer die roerder. Roer aanhoudend gedurende die meng- en toedieningsproses. Vul die spuit- of mengtenk halfvol met water, voeg **SPECTRUM 538 SE** stadig by en roer totdat dit volledig gedispergeer het. Voeg nou die PARAQUAT 200 SL by terwyl aanhoudend geroer word.
- Dien **SPECTRUM 538 SE** op dieselfde dag as vermenging toe.

TOEDIENINGS HOEVEELHEID

1.0 SUIKERRIET: (plantriet en oorstaan of ratoen riet)

'n Voor-opkoms en vroeë na-opkoms toediening op beide die suikerriet en die onkruid.

- Die toedieningshoeveelheid van **SPECTRUM 538 SE** word nie beïnvloed deur die kleipersentasie van die grond nie.

- **SPECTRUM 538 SE** moet voor-opkoms of vroeg na-opkoms van die onkruid toegedien word.

- Met toediening moet die groeistadium van die grasse nie later as die 2 tot 3 blaarstadium wees nie.

- Breeblaaronkruid nie groter as die 4 tot 6 blaarstadium wees nie.

- **SPECTRUM 538 SE** toedienings moet tydens laat lente en somer plaasvind wanneer die kans op reën groter is en nadat die eerste lente en of somer reëns geval het.

- **SPECTRUM 538 SE** sal 'n lang nawerking onder gunstige omgewingstoestande gee. Nawerking van minstens 10 tot 12 weke kan onder gunstige toestande vermag word.

- PARAQUAT 200 SL moet bygevoeg word in na-opkoms toedienings van **SPECTRUM 538 SE** vir die beheer van grasse. PARAQUAT 200 SL word by die spuitmengsel gevoeg teen 500 ml/ha.

- Bespuitings met **SPECTRUM 538 SE** + PARAQUAT 200 SL kan breedwerpig tot op die 30cm hoogte gespruit word in die geval van ratoenriet. In die geval van plantriet moet PARAQUAT 200 SL nie later as die "spike" stadium van die suikerriet toegedien word nie.

(Verwys na die PARAQUAT 200 SL etiket).

- **SPECTRUM 538 SE** kan gebruik word waar drupbesproeiing stelsels in gebruik is, maar daar moet gelet word dat drupbesproeiing nie voldoende is om **SPECTRUM 538 SE** te aktiveer of te versprei in die afwesigheid van reën of besproeiing nie. Om **SPECTRUM 538 SE** te aktiveer sal oorhoofse besproeiing en/of reën van meer as 20 mm benodig word.

SPECTRUM 538 SE mag nie deur die drupbesproeiingstelsel toegedien word nie

- Alle vooropkoms toedienings van **SPECTRUM 538 SE** sal beide grasse en breekblare soos op die etiket aangedui, beheer.

- Enige geregistreerde s-Methalochlor 960 g/l EC mag by **SPECTRUM 538 SE** plus PARAQUAT 200 SL tenk mengsel gevoeg word om die nawerking op grasse te verleng. Raadpleeg die betrokke s-Methalochlor 960 g/l etiket vir toedienings hoeveelhede en instruksies.

- Alle na-opkoms toedienings van **SPECTRUM 538 SE** moet saam met 'n tenkmengsel van 'n gepaste geregistreerde Byvoegmiddel geskied

SPECTRUM 538 SE 3.33 ℓ/ha	Plus Aanbevole Byvoegmiddel
Botaniese Naam	Gewone Naam
<i>Ageratum conyzoides</i> <i>Amaranthus hybridus</i> <i>Brachiaria deflexa</i> <i>Brachiaria nigropedata</i> <i>Commelina benghalensis</i> <i>Digitaria sanguinalis</i> <i>Digitaria temata</i> <i>Eleusine indica</i> <i>Panicum deustum</i> <i>Parthenium hysterophorus</i> <i>Portulaca oleracea</i> <i>Richardia brasiliensis</i> <i>Sesbania bispinosa</i> <i>Sida cordifolia</i> <i>Sida spinosa</i> <i>Tragus berteronianus</i> <i>Urochloa panicoides</i>	Indringer Ageratum Gewone Misbredie Bastersinjalgras Swart Voetjiegras Wandelende Jood Kruisvingergras Swartsaadvingergras Jongosgras Breeblaar Buffelsgras Demoina Bossie Porselein Tropiese Richardia Stekel Sesbania Hartblaartaaiman Stekeltaaiman Klein Wortelsaadgras Beesgras

Bykomende onkruid beheer kan verkry word met die gebruik van hoër dosis soos aangedui hieronder.

SPECTRUM 538 SE 4.0 to 5.0 ℓ / ha	PLUS Aanbevole geregistreerde byvoegmiddel (alle vroeë na opkoms toedienings)
Onkruid Beheer	
Botaniese Naam	Gewone Naam
<i>Acanthospermum hispidum</i>	Regopstertklits
<i>Abutilon sonneratianum</i>	Wildemalva
<i>Ageratum conyzoides</i>	Indringer Ageratum
<i>Amaranthus hybridus</i>	Gewone Misbredie
<i>Amaranthus spinosus</i>	Doringmisbredie
<i>Amaranthus deflexus</i>	Meerjarige Misbredie
<i>Amaranthus viridis</i>	Skraal Misbredie
<i>Amaranthus thunbergii</i>	Rooi Misbredie
<i>Bidens Pilosa</i>	Gewone knapsekêrel
<i>Coronopus didymis</i>	Peperbossie
<i>Chamaesyce spp.</i>	Gladde Kruipmelkkruid
<i>Chenopodium album</i>	Wit Hondebossie
<i>Chenopodium carinatum</i>	Groen Hondebossie
<i>Cleome monophylla</i>	Rusperbossie
<i>Commelina benghalensis</i>	Wandelende Jood
<i>Convolvulus arvensis</i>	Akkerwinde
<i>Corchorus trilobularis</i>	Wilde Jute
<i>Crotalaria sphaerocarpa</i>	Mielie Crotalaria
<i>Datura ferox</i>	Groot Stinkblaar
<i>Datura stramonium</i>	Stinkblaar
<i>Digitaria nuda</i>	Kruisgras
<i>Eleusine coracana</i>	Jongosgras
<i>Hibiscus cannabinus</i>	Wilde Stokroos
<i>Hibiscus trionum</i>	Terblansbossie
<i>Ipomoea purpurea</i>	Purperwinde
<i>Kyllinga erecta</i>	Witbiesie
<i>Nicandra physaloides</i>	Basterappelliefie
<i>Parthenium hysterophorus</i>	Demoina Bossie
<i>Portulaca oleracea</i>	Porselein
<i>Richardia brasiliensis</i>	Tropiese Richardia

<i>Sesbania bispinosa</i>	Stekel Sesbania
<i>Senecio polyanthemoides</i>	Radiatorbos/ Bankrotbos
<i>Setaria pallide-fusca</i>	Tuinsetaria
<i>Sida cordifolia</i>	Hartblaartaaiman
<i>Sida rhombifolia</i>	Smalblaartaaiman
<i>Sida spinosa</i>	Stekeltaaiman
<i>Sonchus oleraceus</i>	Sydissel
<i>Sonchus asper</i>	Doringsydissel
<i>Solanum nigrum</i>	Nastergal
<i>Tagetes minuta</i>	Kakiebos
<i>Tribulus terrestris</i>	Dubbeltjie

Die byvoeg van PARAQUAT 200 SL teen 500 ml per ha as die mengsel vroeg naopkoms toegedien word, sal die volgende onkruid ook beheer word.

SPECTRUM 538 SE 4-5 l / ha plus paraquat 200 SL teen 500 ml / ha	
Onkruidbeheer	
Botaniese Naam	Gewone Naam
<i>Brachiaria deflexa</i>	Bastersinjaalgras
<i>Brachiaria nigropedata</i>	Swart Voetjiegras
<i>Cyperus esculentus</i>	Geeluintjie
<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Digitaria ternata</i>	Swartsaadvingergras
<i>Echinochloa colona</i>	Moerasgras
<i>Eleusine indica</i>	Jongosgras
<i>Panicum deustum</i>	Breëblaar Buffelsgras
<i>Panicum maximum</i>	Gewone Buffelsgras
<i>Panicum schinzii</i>	Vleibuffelsgras
<i>Tragus berteronianus</i>	Klein Wortelsaadgras
<i>Urochloa mosambicensis</i>	Klienwortelsaadgras
<i>Urochloa panicoides</i>	Beesgras

2.0 MIELIES

(Gewone en glifosaat verdraagsame mielies)

Vroë naopkoms van beide mielies en onkruid:

Aanbevole Byvoegmiddel: Met alle vroë naopkoms toedienings van SPECTRUM 538 SE moet 'n toepaslike geregistreerde byvoegmiddel gebruik word

SPECTRUM 538 SE 3.33 l/ha	Plus anbevole Byvoegmiddel
Botaniese Naam	Gewone Naam
<i>Ageratum conyzoides</i> <i>Amaranthus hybridus</i> <i>Brachiaria deflexa</i> <i>Brachiaria nigropedata</i> <i>Commelina benghalensis</i> <i>Digitaria sanguinalis</i> <i>Digitaria ternata</i> <i>Eleusine indica</i> <i>Panicum deustum</i> <i>Parthenium hysterophorus</i> <i>Portulaca oleracea</i> <i>Richardia brasiliensis</i> <i>Sesbania bispinosa</i> <i>Sida cordifolia</i> <i>Sida spinosa</i> <i>Tragus berteronianus</i> <i>Urochloa panicoides</i>	Indringer Ageratum Gewone Misbredie Bastersinjaalgras Swart Voetjiegras Wandelende Jood Kruisvingergras S Wartsaadvingergras Jongosgras Breeblaar Buffelsgras Demoina Bossie Porselein Tropiese Richardia Stekel Sesbania Hartblaartaaiman Stekeltaaiman Klein Wortelsaadgras Beesgras



SPECTRUM 538 SE

Reg. No. / Nr L10513 Act No. 36 of 1947/ Wet Nr 36 van 1947

HERBICIDE



**READ THE LABEL AND ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

HRAC HERBICIDE GROUP CODE:

27+15+5

HRAC ONKRUIDDODERGROEP CODE:

A pre- and post-emergence herbicide for the control of annual grass and broadleaf weeds in maize and sugarcane.

'n Voor en na-opkoms onkruidodder vir die beheer van eenjarige grasse en breëblaaronkruid in mielies en suikerriet.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Mesotrione (callistemone).....	37,5 g/ℓ.....	mesotrioön (callistemoons)
S-metolachlor (chloroacetanilide).....	375g/ℓ.....	S-metolachloor (chloorasetanilied)
terbuthylazine (triazine).....	125 g/ℓ.....	terbutielasien (triasien)



DANGER

Hazard Statements:

May be harmful if swallowed.
May be harmful in contact with skin.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic if inhaled.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects

Precautionary Statements:

Do not breathe vapours, spray.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of drum for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.

VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3082



REGISTRATION HOLDER/ REGISTRASIEHOUER
Cedar Falls Properties 130 (Pty) Ltd.
Reg. No. / Nr. 2006/031383/07
61 Marshall Drive, Old Mill Industrial Park,
Mount Edgecombe.
Tel: (031) 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



BARCODE

100767

