

WARNINGS

Hazard Statements: Flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

- Store in a cool place.
- Store away from food, feed, fertilizer and other agricultural products.
- Keep out of reach of children, uninformed persons and animals.
- Do not use on plant cane.
- Aerial application: Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings.

DISCLAIMER

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy, 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 by 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

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: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use D-powder, carbon dioxide (CO₂), foam to extinguish. Collect spillage.

Storage: Store in a well-ventilated place. Keep cool.

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

- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Do not mix, apply or clean equipment within 20 m of any water source.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- **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.

RELEVANT SUBSTANCES

| NAME | PRODUCT IDENTIFIER |
|--|---------------------|
| Hexazinone TC | CAS-No.: 51235-04-2 |
| Ethanol | CAS-No.: 64-17-5 |
| Ethoxylated fatty alcohol | CAS-No.: 78330-20-8 |
| 5-Chloro-2-Methyl-4-isothiazolin-3-one | CAS-No.: 26172-55-4 |
| Humectant | CAS-No.: 56-81-5 |

SYMPTOMS OF HUMAN POISONING

Irritation effects on skin and mucous membranes are the common reactions. Causes severe eye irritation. May cause skin irritation and allergic reaction.

RANSOM 240 SL

Reg. No. / Nr L7654 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**

HERBICIDE GROUP CODE

5

ONKRUIDDODER GROEPKODE

A soluble liquid concentrate herbicide for the control of various annual grasses and broadleaf weeds in sugarcane.

'n Oplosbare konsentraat onkruidodder vir die beheer van 'n verskeidenheid een-jarige grasse en breëblaaronkruiden in suikerriet.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Hexazinone (triazine)240 g/l Heksasienoon (triasien)



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Causes mild skin irritation.
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Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Avoid breathing vapours.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
IF IN EYES: Rinse cautiously with water for several minutes.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use D-powder, carbon dioxide (CO₂), foam to extinguish.

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: 1170



REGISTRATION HOLDER/ REGISTRASIEHOUER
Cedar Falls Properties 130 (Pty) Ltd
Reg. Nr: Reg. 2006/031383/07
61 Marshall Drive, Old Mill Industrial Park
Mount Edgecombe, South Africa, 4300
Tel: 031 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



BARCODE

100839

FIRST AID TREATMENT

Skin contact: Remove contaminated clothing as well as shoes and leather goods. Wash body with non-abrasive soap and lots of water. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical advice if necessary.

Eye contact: Flush eyes immediately with large amounts of clean water for approximately 15 minutes. Occasionally lift the upper and lower lids. Call for medical attention immediately.

Inhalation: Remove patient to a well ventilated area and loosen clothing around the neck. Perform artificial respiration and administer oxygen if necessary. Keep patient warm and calm. **Seek medical advice immediately.**

Ingestion: Do not induce vomiting. Get medical attention immediately. Administration of gastric lavage or oxygen should be performed by qualified medical personnel. Give small amounts of water by mouth if patient is conscious.

NOTE TO PHYSICIAN

No specific antidote. Treat symptomatically and supportively. Keep patient under observation.

RESISTANCE WARNING

For resistance management, **RANSOM 240 SL** is a group code 5 herbicide. Any weed population may contain individuals naturally resistant to **RANSOM 240 SL** and other group code 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 **RANSOM 240 SL** or any other group code 5 herbicide.

To delay herbicide resistance:

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

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

The presence of resistant weeds is difficult to detect prior to use and therefore neither the Registration Holder nor the Distributor can accept responsibility for any losses as a result of **RANSOM 240 SL** not controlling resistant weeds. Do not apply **RANSOM 240 SL** alone in situations where weed resistance has been confirmed. Sub-standard application of **RANSOM 240 SL** or other group code C1 herbicides will lead to inferior weed control and may assist in development of herbicide resistance.

MODE OF ACTION:

Photosynthetic electron transport inhibition by binding at the QB site on the D1 protein of the photosystem II complex, resulting in formation of reactive chemical species that oxidise and degrade lipids and proteins. Non-selective, primarily contact herbicide, absorbed by leaves and roots, translocated acropetally in the xylem.

USE RESTRICTIONS

- **RANSOM 240 SL** is a leaf and root absorbed herbicide with long residual action. It should be applied prior to or during the period of active growth of weeds. Effects of **RANSOM 240 SL** on existing weeds may be slow to appear and several weeks may be required for the full effect to become visible. The degree of control and duration of effect will depend on the application rate, amount and intensity of rainfall and soil type.
- Heavy rain on very sandy soils low in organic matter as well as flood irrigation can reduce weed control performance.
- Do not apply **RANSOM 240 SL** more than once per season to the same land or exceed the recommended rate.
- Do not plant crops other than pineapples or sugarcane within 12 months of **RANSOM 240 SL** application.
- Do not add additional additives, wetters or surfactants to the spray mixture.
- Soil must be deeply and thoroughly ploughed before planting subsequent crops. A test planting is recommended in all cases.
- Do not use **RANSOM 240 SL** on poorly drained soils or soils with a compaction layer, as under these conditions waterlogging can occur and the herbicide may cause crop injury.
- Do not apply **RANSOM 240 SL** to any crop or situation not mentioned in this instruction leaflet.
- Only apply **RANSOM 240 SL** using an accurate and safe application technique.
- If **RANSOM 240 SL** is used in a tank mix with other recommended herbicides, consideration should be given to the restrictions of those respective products.
- Do not apply near desirable plants or trees or on areas where their roots may extend or in locations where the chemical may be washed or moved in contact with their roots.

DIRECTIONS FOR USE

Use only as directed

COMPATIBILITY

The compatibility of **RANSOM 240 SL** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. **RANSOM 240 SL** is compatible with Ametryn (L. 5924) and Diuron 800 SC (L. 5663).

AERIAL APPLICATION

Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS 0118 (Aerial Application of Agricultural Remedies). 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:

Equipment

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 75% of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters

- A minimum volume of 50 l spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aurally at a lower volume rate than recommended.
- A droplet coverage of 30 – 40 droplets per sq cm must be recovered at the target.
- A droplet spectrum with a VMD of 450 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 3 and 4m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.
- Apply before the crop growth becomes too dense, which will interfere with overall plant coverage.

Meteorological Conditions

- The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions nor during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer).
- Do not spray when the wind speed exceeds 15 km per hour.

General

- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met.

MIXING INSTRUCTIONS

Half-fill the spray tank with suitable water, then add the required amount of **RANSOM 240 SL** to the water in the tank while agitating. When tank mixing **RANSOM 240 SL** with Diuron or Ametryn, first add the **RANSOM 240 SL** to the tank. Fill the spray tank to the desired volume while agitating. Should tank mixtures with other herbicides be made, follow the respective manufacturers' label recommendations. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation. **RANSOM 240 SL** should be applied in 200 – 400 l of water per ha, depending on the density of weeds, and applied to the weeds and soil as an overall or directed spray.

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application.

Ground application:

Knapsack sprayers or tractor mounted boom sprayers may be used. A spray volume of 200 – 400 l/ha should be used for ground application and can be applied via solid- or hollow cone nozzles. **Constant agitation throughout the spray operation is essential.** Only clean water should be used. Prevent overdosing by avoiding overlapping of swaths and closing the nozzles while starting, slow movement, turning and stopping.

SUGAR CANE RECOMMENDATIONS

- Do not use on plant cane crops.
- Where possible, direct the spray mixture so as to avoid spraying directly over the crop foliage, especially under hot and humid conditions.
- For best results, apply **RANSOM 240 SL** mixtures to moist soil when the climate is warm and favourable for active weed and crop development.
- Apply as a uniform overall spray at a pre-emergence or early post-emergence growth stage of weeds. Following harvesting, **RANSOM 240 SL** may be applied before the weeds have emerged, or in combination with Ametryn or Diuron 800 SC very soon after the weeds have emerged.
- **RANSOM 240 SL** alone or in mixtures should control weeds for 8 - 12 weeks.

APPLICATION TABLE: SUGARCANE

| SITUATION | % CLAY | Pre-emergence of weeds | | Post-emergence of weeds | | |
|---------------------|---------|------------------------|------------------|-------------------------|--------|-----------------|
| | | RANSOM 240 SL l/ha | P L U S | Diuron 800 SC l/ha | O R | Ametryn SC l/ha |
| Early season ratoon | 5 - 15 | 1,75 - 2,25 | P L U S | 1,0 | O R | 3,0 |
| | 16 - 35 | 2,25 - 2,75 | | 1,0 - 1,5 | | 3,0 - 4,0 |
| | > 35 | 2,5 - 3,0 | | 1,5 - 2,0 | | 4,0 |
| Mid-season ratoon | 5 - 15 | 1,75 - 2,0 | P L U S | 1,0 | O R | 3,0 |
| | 16 - 35 | 2,0 - 2,25 | | 1,0 - 1,5 | | 3,0 - 4,0 |
| | > 35 | 2,0 - 2,5 | | 1,5 - 2,0 | | 4,0 |
| Late season ratoon | 5 - 15 | 1,0 - 1,15 | P L U S | 1,0 | O R | 3,0 |
| | 16 - 35 | 2,0 | | 1,0 - 1,5 | | 3,0 - 4,0 |
| | > 35 | 2,25 | | 2,0 | | 4,0 |

Remarks

- If *Panicum maximum* has emerged by the time of application, the addition of Diuron 800 SC or Ametryn are recommended. Apply prior to tillering of grass weeds or before they have developed a strong root system.
- Ametryn is the preferred tank-mix partner under cooler and drier conditions of spring.
- Diuron 800 SC is the preferred tank-mix partner under warm, wet favourable conditions.
- Always use lower rates for light, less absorptive soils having a low cation exchange capacity.

SUGAR CANE VERGES AND BREAKS

| % CLAY | DOSAGE/ha | SPOT TREATMENT (10m ²) | REMARKS |
|---------|-----------|------------------------------------|---|
| < 20 | 7,5 | 7,5 ml | Apply as a directed spray to avoid contact with cane foliage. |
| 21 - 35 | 11,3 | 11,3 ml | |
| > 35 | 15,0 | 15,0 ml | |

Remarks

- Above dosage rates will extend residual weed control but may not completely kill existing weed growth.

BROADLEAF WEEDS NORMALLY CONTROLLED BY RANSOM 240 SL:

| | |
|--------------------------------|-------------------------|
| <i>Ageratum conyzoides</i> | Invader Ageratum |
| <i>Argemone mexicana</i> | Mexican poppy |
| <i>Bidens pilosa</i> | Common blackjack |
| <i>Chenopodium murale</i> | Nettle-leaved goosefoot |
| <i>Cosmos bipinnatus</i> | Cosmos |
| <i>Datura stramonium</i> | Thorn apple |
| <i>Emex australis</i> | Spiny emex |
| <i>Galinsoga parviflora</i> | Gallant soldier |
| <i>Hibiscus trionum</i> | Bladderweed |
| <i>Nicandra physaloides</i> | Apple of Peru |
| <i>Portulaca oleracea</i> | Purslane |
| <i>Siegesbeckia orientalis</i> | Common St. Paul's wort |
| <i>Solanum nigrum</i> | Black nightshade |

GRASS WEEDS NORMALLY CONTROLLED BY RANSOM 240 SL

| | |
|-------------------------------|----------------------|
| <i>Brachiaria eruciformis</i> | Sweet signal grass |
| <i>Digitaria sanguinalis</i> | Crab finger-grass |
| <i>Eleusine indica</i> | Goose grass |
| <i>Panicum maximum</i> | Common buffalo grass |
| <i>Panicum schinzii</i> | Sweet buffalo grass |
| <i>Setaria verticillata</i> | Sticky bristle grass |
| <i>Setaria pallide-fusca</i> | Red bristle grass |

SEDGES NORMALLY CONTROLLED BY RANSOM 240 SL

| | |
|-------------------------------|-----------------|
| * <i>Cyperus esculentus</i> | Yellow nutsedge |
| <i>Cyperus distans</i> | Slender cyperus |
| <i>Fimbristylis dichotoma</i> | Sedge |
| <i>Fimbristylis hispidula</i> | Slender sedge |

*Post emergence only.

Cyperus rotundus is not controlled. *Sorghum verticilliflorum* and established as well as post-tillering *Panicum maximum* are not controlled.

NOTE:

The control of weeds mentioned above is dependent upon environmental conditions.

- Situations with high soil organic matter or excessive dead plant material on the soil surface may reduce the length of residual control obtained.
- Reduced residual control of shallower germinating weeds may occur where application of **RANSOM 240 SL** is made on soils with low organic matter and/or clay content is followed by heavy rain or irrigation shortly after application.
- Degree of pre-emergence weed control and duration of effect may vary, depending on weed species, environmental conditions and soil conditions.

The registration holder does not accept any liability in respect of the control of unlisted weeds.

WAARSKUWINGS:

Gevaarstellings: Vlambare vloeistof en damp. Veroorsaak ligte velirritasie. Veroorsaak ernstige oogirritasie. Baie giftig vir waterlewe. Giftig vir waterlewe met langdurige effekte.

- Berg in 'n koel plek
- Berg weg van voedsel en voer kunsmisen ander landbou produkte
- Berg buite bereik van kinders, diere en oningeligte persone.
- Moenie op plantriet gebruik nie.

Lugtoediening:

Stel alle inwoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit.

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 versium 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 of registrasiehouer in die geval van enige onsekerheid.

VOORSORGMATREELS:

Voorsorgstellings

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

Voorkoming: Hou weg van hitte, warm oppervlaktes, vonke, oop vlamme en ander ontstekingsbronne. Geen rook nie. Hou die houer dig toe. Grond en bind houer en ontvangtoerusting. Gebruik ontploffingsvaste toerusting. Gebruik gereedskap wat nie vonkel nie. Neem aksie om statiese ontladings te voorkom. Was hande, voorarms en gesig deeglik na hantering. Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie. Vermoë vrylating na die omgewing. Dra beskermende handskoene/beskermende kler/ oogbeskerming/gesigbeskerming.

Reaksie: INDIEN OP DIE VEL (of hare): Trek onmiddellik alle gekontamineerde kler uit. Spoel vel uit met water/stort. INDIEN IN OÊ: Spoel versigtig uit met water vir 'n paar minute. Verwyder kontaklense, indien teenwoordig en maklik om te doen. Gaan voort met spoel. Bel 'n dokter as jy onwel voel. Indien velirritasie voorkom: Kry mediese advies/aandag. Indien oogirritasie voortduur: Kry mediese advies/aandag. In geval van brand: Gebruik D-poelie, koolstofdioksied (CO₂), skuim om te blus. Versamel gemors.

Berging: Berg in 'n goed geventileerde plek. Hou koel.

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

- Vermoë oorwaai van spuitnewel na gewenste plante, bome, gewasse en riviere en damme.
- Maak spuittoerusting skoon na gebruik. Gooi afspoel water veel weg waar dit nie gewasse, weiding, riviere, damme of boorgate sal besoedel nie
- Moenie spuittoerusting binne 20 m van water bronne uitspoel nie.
- Voorkom besmetting van voedsel, eetware, drinkwater en eetgerei.
- **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 verlangsamen 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 drievoudig 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.
- Vernetig die houer en moenie vir enige iets anders gebruik nie.

RELEVANTE STOWWE

| NAAM | PRODUK IDENTIFISEERDER |
|---------------------------------|------------------------|
| Heksasienoon TS | CAS-No.: 51235-04-2 |
| Etanol | CAS-No.: 64-17-5 |
| Geëtiksilende vetterige alkohol | CAS-No.: 78330-20-8 |

| | |
|---|---------------------|
| 5-Chloor-2-metiel-4-isotiasolien -3-een | CAS-No.: 26172-55-4 |
| Bevogtiger | CAS-No.: 56-81-5 |

SIMPOTOME VAN MENSLIKE VERGIFTIGING

Die algemene simptome is irritasie van die vel en slymvliese. Veroorsaak erge oog irritasie. Mag vel irritasie en allergiese reaksie ontketen.

NOODHULP BEHANDELING

Vel Kontak: Trek besoedelde klere, skoene en leer goedere uit. Was lyf met 'n sagte seep en baie water. Die persoon wat die noodhulp toedien moet rubber handskoene dra om hulself te beskerm. Kry mediese raad.

Oog Kontak: Spoel oë dadelik uit met groot hoeveelhede skoon koue water vir ongeveer 15 minute. Tell af en toe laer en boonste ooglede op. Kry dadelik mediese aandag.

Inaseming: Verwyder patient na goed geventillere area en maak klere om sy nek los. Pas asemhaaling toe en indien nodig dien suurstof toe. Hou patient warm en kalm.

Kry dadelik mediese aandag.

Insluk: Moenie braaking veroorsaak nie. Kry dadelik mediese aandag. Die behandeling van maagspoel of suurstof toediening moet deur mediese kundige uitgevoer word. Gee kien hoeveelheid water per mond indien die patient nie bewusteloos is nie.

NOTA AAN GENEESHEER:

Geen spesifieke teenmiddel. Behandel simptome. Hou patient onder observasie.

WEERSTANDSWAARSKUWING

Vir doeleindes van weerstandbestuur, is **RANSOM 240 SL** 'n groepkode 5 onkruidodder. Enige bevolking onkruid bevat wat natuurlik weerstandbiedende is teen **RANSOM 240 SL** en ander groepkode 5 onkruidodders. Indien hierdie groepkode onkruidodders herhaaldelik toegedien word, kan die weerstandbiedende individue uiteindelik die bevolking oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **RANSOM 240 SL** of enige ander groepkode 5 onkruidodder beheer word nie.

Ten einde weerstand teen onkruidodders te vertraag:

- Vermy die uitsluitlike en herhaaldelike gebruik van onkruidodders wat tot dieselfde groepkode behoort. Wissel af met, of gebruik tenkengsels van middels van verskillende onkruidodder groepkodes.
 - Integreer chemiese middels en verbouingspraktyke in onkruidbeheerprogram.
- Vir meer inligting oor weerstandsbestuur raadpleeg die registrasiehouer

Die teenwoordigheid van weerstandbiedende onkruid is moeilik om te voorspel alvorens behandel word. Dus kan nóg die Registrasie houer nóg die Verspreider enige verantwoordelikheid aanvaar vir enige verliese waar **RANSOM 240 SL** nie die weerstandbiedende onkruid beheer nie. Moenie **RANSOM 240 SL** alleen toedien nie waar dit bekend is dat weerstandbiedende onkruid teenwoordig is.

Swak toediening van **RANSOM 240 SL** of enige ander Groep kode C 1 produkte sal lei tot ongewenste onkruid beheer, en mag die weerstandbiedende onkruid bevorder.

WYSE VAN AKSIE

Fotosintetiese elektrontransportinhibisie deur binding by die QB-plek aan die D1-proteïen van die fotosisteme II-kompleks, wat lei tot die vorming van reaktiewe chemiese spesies wat lipiede en proteïene oksideer en afbreek. Nie-selektiewe, hoofsaaklik kontak onkruidodder, geabsorbeer deur blare en wortels, akropetaal getranslokeer in die xileem.

GEBRUIKSBEPERKING:

- **RANSOM 240 SL** word deur blare en wortels opgeneem en het 'n lang nawerking. Dit moet toegedien word net voor of tydens die aktiewe groei van onkruid. Op bestaande onkruid neem simptome redelik lank om waargeneem te word en mag die uiteindelige effek eers na 'n weke sigbaar wees. Die mate van beheer en nawerking sal afhang van die dosis, die hoeveelheid en intensiteit van reën
- Swaar reën op sand gronde met lae organiese materiaal inhoud en/of vloed besproeiing mag die resultate benadeel.
- Moenie **RANSOM 240 SL** meer as een keer per seisoen op een land toedien nie en moenie die aanbevole hoeveelhede oorskry nie.
- Moet geen ander gewas as pynappels of suikerriet binne 12 maande na toediening plant nie.
- Moenie enige addisionele benattingsmiddels of ander byvoegmiddels byvoeg nie.
- Grond moet diep en deeglik bewerk word alvorens 'n opvolg gewas geplant word. 'n Toetsplant word in alle gevalle aanbeveel.
- Moenie **RANSOM 240 SL** op swak gedreineerde gronde of gronde waar daar 'n kompaksie lag voorkom gebruik nie, want skade aan die gewas kan voorkom.
- Moenie **RANSOM 240 SL** op enige ander gewas of situasie nie hier gemeld nie, toedien.

- Dien net **RANSOM 240 SL** toe met akkurate en veilige tegnieke.
- As **RANSOM 240 SL** in tenkmengsels saam met ander onkruidodder gebruik word, volg die gebruiksbepanking op die produk se etiket.
- Moenie naby wenslike plante of bome of areas waar hulle wortels mag uitreik of gebiede waar die produk na die wortels afgespoel kan word nie.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui

VEREENIGBAARHEID:

Die verenigbaarheid van **RANSOM 240 SL** met ander produkte hang af van die formulase van die produkte sowel as die gehalte van die water wat vir beputing gebruik word. Aangesien formulases van tyd tot tyd verander moet 'n vereenigbaarheids toets gedoen word voordat tenkmengsels gemaak word. **RANSOM 240 SL** is verenigbaar met Ametryn (L 5924) and Diuron 800 SC (L 5663).

LUGTOEDIENING:

RANSOM 240 SL kan deur middel van lugbespuiting toegedien word mits die vlieener / spuitoperateur geregistreer is en en 'n geregistree vliegtuig wat korrek gekalibreer is volgen die SANS 0118 Kode.

Dit is belangrik dat die spuitstof egalig oor die teikengebied versprei word en die verlies aan spuitmiddel tydens toediening tot 'n minimum beperk word. Ten einde hieraan te voldoen moet die volgende vereistes nagekom word:

Toerusting:

- Gebruik toepaslike atomiserings toerusting (hidrolies of roterende atomiseerders) wat die verlangde druppel groote en bedeking van die teiken gebied sal lever met die minimum verlies aan spuitstof.
- Die operateur moet die spuitpunte so instel dat dit 'n drupel spektrum met die laagste relatiewe spanwydte sal produseer.
- Alle spuitpunte en atomiseerders moet so geposisioneer wees binne die 75 % van die vlerkspan om te voorkom dat druppels in die vlerk se "vortex" beland.

Toedienings aanbevelings

- Dien 50 liter spuitmengsel per hektaar toe. Die produk is nie teen laer volumes getoets nie en dus kan die vervaardiger geen verantwoordelikheid neem vir beputings teen laer volumes nie.
- 'n Minimum van 30 tot 40 druppels per vierkante sentimeter moet op die teikengebied herwin word.
- Gerbuik 'n druppelspektrum met 'n VMD van 450 mikron. Verseker dat kleiner drupel groottes met VMD van klieen as 150 Mikron tot die minimum beperk word.
- Handhaaf vlieghoogte van 3 tot 4 meter bokant die teikengebied
- Moenie spuit terwyl die vliegtuig klim of draai nie, of tydens dit afduik nie.
- Dien toe voordat die gewas te ruig is nie en die spuitmengsel van die teiken onkruid afspers nie.

Meteorologiese toestande

- Die verskil tussen die nat- en droë bollesing, soos met 'n swaai higrrometer bepaal, moet nie meer as 8 grade Celsius wees nie
- Moet nie op die hitte van die dag spuit nie weaner turbulansie en rysende lugstrome voorkom nie.
- Moet nie onder temperatuur inversie toestande spuit nie (spuit in of bokant die inversielaag).
- Staak bespuiting sodra die windsnelheid 15 km/h oorskry.

Algemeen

Verseker dat landerye korrek gemerk is en dat die vlieiner ingelig is oor die teiken gebied
 - Dit is noodsaaklik om 'n versekering van die spuitoperateur te verkry dat aan bogenoemde vereistes sal voldoen

MENGINSTRUKSIES:

Maak die spuitenk die helfte van benodigde water vol, voeg dan die vereiste volume **RANSOM 240 SL** stadig by, terwyl dit aanhoudend geroer word, tot die **RANSOM 240 SL** heeltemal opgelos en versprei deur die tenk. Wanneer **RANSOM 240 SL** met Ametryn of Diuron in tenk mengsel gebruik word moet die **RANSOM 240 SL** eers in die tenk gegooi word. Voeg dan die verlangde hoeveelheid water by die tenk terwyl aanhoudend geroer word. Sou ander produkte in tenk mengsels saam met **RANSOM 240 SL** gebruik word volg ook die aanwysings op die betrokke etikette.

Tenkmengsels moet dadelik uitgespuit word en nie oornag laat staan nie.

Spoel spuit apparaat deeglik uit na toediening afgehandel is.

Dien **RANSOM 240 SL** in 200 tot 400 liters water per hektaar toe afhangend van die digtheid van die onkruid, met algehele of gerigte bespuiting, om goei bedeking van die onkruid te verseker

TOEDIENINGS METODES:

Verseker dat spuit toestel korrek gekalibreer is en gereeld nagegaan tydens toediening om te verseker dat die toediening akuraat is.

GROND TOEDIENINGS:

Gebruik rugsakspuite of trekker gemonteerde spuit balke. Dien 200 to 400 liter spuitmengsel per hektaar toe, met vaste of holkeelspuitpunte. Sorg dat die spuitmengsel aanhouend tydens toedieng geroer word. Gebruik alleenlik skoon water.

Verm y oordosis deur oorvleuling van die spuitbaan te vermy en sluit spuitpunte terwyl trekker stading ry of draai en tot stilstand kom.

AANBEVELINGS VIR SUIKERRIT: (RATOENRIET)

- Moenie op planriet gebruik nie
- Waar moontlik dien toe as 'n gerigte bespuiting en probeer om algehele toediening bo oor die gewas te vermy veral wanneer weer baie warm en vogtig is.
- Vir die beste resultate dien **RANSOM 240 SL** toe op klam grond onder matige klimaat wat gunstig vir aktiewe plant groei.
- Sorg vir egalige bedeking tydens voor of naopkoms toediening van die onkruid. Na oes kan **RANSOM 240 SL** voor opkoms van die onkruid toegedien word of na opkoms saam met Ametryn of Diuron 800 SC in tenkmengsel net na onkruid ontkiem het.
- **RANSOM 240 SL** alleen, of in tenk mengsels, behoort 8 tot 12 weke beheer te gee.

TOEDIENINGSHOEVEELHEDE: Suikerriet

| TYD VAN TOEDIENING | KLEI % | VOOR OPKOM VAN ONKRUID | NA OPKOM VAN ONKRUID | | | |
|----------------------|---------|------------------------|----------------------|--------------------|--------|-----------------|
| | | RANSOM 240 SL l/ha | P L U S | Diuron 800 SC l/ha | O F | Ametryn SC l/ha |
| Vroeë seisoen Ratoen | 5 - 15 | 1,75 - 2,25 | P L U S | 1,0 | O F | 3,0 |
| | 16 - 35 | 2,25 - 2,75 | | 1,0 - 1,5 | | 3,0 - 4,0 |
| | > 35 | 2,5 - 3,0 | | 1,5 - 2,0 | | 4,0 |
| Mid seisoen Ratoen | 5 - 15 | 1,75 - 2,0 | P L U S | 1,0 | O F | 3,0 |
| | 16 - 35 | 2,0 - 2,25 | | 1,0 - 1,5 | | 3,0 - 4,0 |
| | > 35 | 2,0 - 2,5 | | 1,5 - 2,0 | | 4,0 |
| Laat seisoen Ratoen | 5 - 15 | 1,0 - 1,15 | P L U S | 1,0 | O F | 3,0 |
| | 16 - 35 | 2,0 | | 1,0 - 1,5 | | 3,0 - 4,0 |
| | > 35 | 2,25 | | 2,0 | | 4,0 |

OPMERKINGS

- Indien *Panicum maximum* ten tye van toediening reeds ontkiem het word die byvoeging van of **DIURON 800 SC** of **AMETRYN SC** teen die voorgeskrewe dosisse aanbeveel. Dien op gras onkruid toe voordat bywortels (tillering) gevorm het en 'n sterk wortels stelsel ontwikkel is.
- Onder koel droë toestande gedurende die lente, moet verkieslik **AMETRYN SC** in tenkmengsels gebruik word.
- Onder warm, vogtige toestande moet verkieslik **DIURON 800 SC** in tenkmengsels gebruik word.
- Gebruik altyd die laer toedienshoeveelhede op ligte grond met 'n laë absorpsie- en katioonuitruilingsvermoe

SUIKERRIET RANDE EN BREKE

| % KLEI | DOSIS/ha | VLEKBEHANDELING (10m ²) | OPMERKINGS |
|---------|----------|-------------------------------------|---|
| < 20 | 7,5 | 7,5 ml | Dien toe as 'n gerigte bespuiting om kontak met rietblare te vermy. |
| 21 - 35 | 11,3 | 11,3 ml | |
| > 35 | 15,0 | 15,0 ml | |

OPMERKINGS:

- Die bogenoemde dosis hoeveelhede sal nawerking bevorder maar mag dalk nie bestaande onkruid heeltemal beheer nie.

BRĒBLAARONKRUIDE WAT NORMAAL DEUR RANSOM 240 SL BEHEER WORD

| | |
|-------------------------------|---------------------|
| <i>Ageratum conyzoides</i> | Indringer Ageratum |
| <i>Argemone mexicana</i> | Geelblom bloudissel |
| <i>Bidens pilosa</i> | Knapsekerel |
| <i>Chenopodium murale</i> | Muurhondebossie |
| <i>Cosmos bipinnatus</i> | Kosmos |
| <i>Datura stramonium</i> | Stinkblaar |
| <i>Emex australis</i> | Kaapsedubbeltjie |
| <i>Galinsoga parviflora</i> | Knopkruid |
| <i>Hibiscus trionum</i> | Terblansbossie |
| <i>Nicandra physaloides</i> | Basterappelliefie |
| <i>Portulaca oleracea</i> | Porselein |
| <i>Sigesbeckia orientalis</i> | Pauluskruid |
| <i>Solanum nigrum</i> | Nagtergal |

GRASONKRUID WAT NORMAAL DEUR RANSOM 240 SL BEHEER WORD

| | |
|-------------------------------|--------------------|
| <i>Brachiaria eruciformis</i> | Litjiesinjaalgras |
| <i>Digitaria sanguinalis</i> | Kruisvingergras |
| <i>Eleusine indica</i> | Jongosgras |
| <i>Panicum maximum</i> | Gewone buffelsgras |
| <i>Panicum schinzii</i> | Soetbuffelsgras |
| <i>Panicum subalbidum</i> | Elmboogbuffelsgras |
| <i>Setaria verticillata</i> | Kitsborselgras |
| <i>Setaria pallide-fusca</i> | Rooiborselgras |

UINTJIES WAT NORMAAL DEUR RANSOM 240 SL BEHEER WORD

| | |
|-------------------------------|----------------------------|
| <i>Cyperus esculentus</i> | Geeluintjie slegs naopkoms |
| <i>Cyperus distans</i> | Fyn Uintjie |
| <i>Fimbristylis dichotoma</i> | Biessie |
| <i>Fimbristylis bispidula</i> | Fynbessie |

Cyperus rotundus (Rooiuintjie) word nie beheer nie. Sorghum verticilliflorum en *Panicum maximum* wat bywortels geskied het of al ontwikkel is sal ook nie beheer word nie.

NOTA:

Die beheer van die bogenoemde onkruide hang van klimaatstoestande af.

- Waar grond hoë organiese materiaal bevat of oortollige plant reste op die oppervlakte van die grond voorkom, mag die nawerking van die **RANSOM 240 SL** benadeel word.
- Nawerking op vlak ontkiemende onkruid op lande met baie lae organiese inhoud en/of klei inhoud sal benadeel word deur swaar reën of bespoeiing net na toediening.
- Die voor opkoms beheer en nawerking op onkruid mag veranderlik wees volgens spesie, omgewings toestande en en grond toestande.

Die registrasie houer kan geen verantwoordelikheid aanvaar vir swak beheer van ongelyste onkruid.

RANSOM 240 SL

Reg. No. / Nr L7654 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**

HERBICIDE GROUP CODE

5

ONKRUIDDODER GROEPKODE

A soluble liquid concentrate herbicide for the control of various annual grasses and broadleaf weeds in sugarcane.

'n Oplosbare konsentraat onkruidodder vir die beheer van 'n verskeidenheid een-jarige grasse en breëblaaronkruid in suikerriet.

ACTIVE INGREDIENT/AKTIEWE BESTANDEDEEL:

Hexazinone (triazine)240 g/l Heksasienuon (triasien)



WARNING

Hazard Statements:

Flammable liquid and vapour.
Causes mild skin irritation.
Causes serious eye irritation.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Avoid breathing vapours.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
IF IN EYES: Rinse cautiously with water for several minutes.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use D-powder, carbon dioxide (CO₂), foam to extinguish.

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: 1170



REGISTRATION HOLDER/ REGISTRASIEHOUER
Cedar Falls Properties 130 (Pty) Ltd
Reg. Nr: Reg. 2006/031383/07
61 Marshall Drive, Old Mill Industrial Park
Mount Edgecombe, South Africa, 4300
Tel: 031 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



BARCODE

100839

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

100839