DIURON 800 SC

Reg. No.: L 6236 Act /Wet No. 36 of/van 1947

A herbicide with long residual action for the control of annual weeds as listed, in citrus, avocados, bananas, coffee, mangoes, pineapples, macadamia and pecan nuts, sugar cane, as well as in industrial areas, along rail tracks and on road shoulders.

‘n Onkruiddoder met lang nawerking vir die beheer van eenjarige onkruid, soos aangedui, in sitrus, avokado’s, mango’s, koffie, pynappels, makadamia- en pekanneute, piesangs, suikerriet asook in nywerheidsgebiede, langs spoorbane en op padskouers.

HRAC HERBICIDE GROUP CODE: C2

HRAC ONKRUIDDODERGROEP KODE:

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:
diuron (substituted urea) / diuron (gesubstitueerde ureum) ……………………. 800 g/ℓ

Registration holder / Registrieshouer:
ARYSTA LifeScience South Africa (Pty) Ltd
7 Sunbury Office Park,
Off Douglas Saunders Drive, La Lucia Ridge,
South Africa, 4019
Tel: 031 514 5600

Contents/Inhoud (ℓ)

Batch No. / Lot Nr.: 

Date of manufacture: / Datum van vervaardiging:

U.N. No. 3082

READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.

For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.
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CAUTION / VERSIGTIG

WARNINGS:
• Handle product with caution.
• Harmful if swallowed.
• Mild irritant to skin and eyes.
• Moderately toxic to fish and highly toxic to aquatic organisms.
• Store in a cool, dry, well-ventilated place in the original container, tightly closed and secured.
• Store away from food, feeds, seed, fertilizer and other agricultural remedies.
• Keep out of reach of children, uninformed persons and animals.
• Re-entry: Do not enter treated area, until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be 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, incompatibility 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:
• Do not inhale spray mist.
• Avoid skin and eye contact by wearing protective clothing when mixing the product.
• In case of accidental eye contact, flush with plenty of water and get medical attention if necessary.
• Wash with soap and water after use and accidental skin contact as well as contaminated clothing.
• Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
• Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
• Clean application equipment thoroughly after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
• 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 described manner.
• Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
• Never re-use the empty container for any other purpose.
• Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING:
For resistance management DIURON 800 SC is a group code C2 herbicide. Any weed population may contain individuals naturally resistant to DIURON 800 SC and other group code C2 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by DIURON 800 SC or any other group code C2 herbicide.

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

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

DIRECTIONS FOR USE:  Use only as indicated.

• DIURON 800 SC applied pre-emergence on its own is absorbed by the roots of germinating weeds and applications must therefore be made before the weeds emerge on a cleanly cultivated soil.
• Rain or irrigation is required within one week after application to obtain good results. Application should preferably be made onto a moist soil.
• DIURON 800 SC may also be applied post-emergence of weeds when used in combination with other registered herbicides.
• The weeds should however be actively growing and in the correct growth stage for optimum results.

Compatibility:
• DIURON 800 SC is compatible with 2,4-D Amine (Reg. no.: L 4744), ACTRIL DS (Reg. no.: L 253), AGROMATE (Reg. no.: L 4606), GRAMOXONE (Reg. no.: L 1174), VENONE 240 SL (Reg. no.: L 7808) and MCPA (Reg. no.: L 6548).
• The quality of the water and formulation differences can affect the compatibility. Since it is not possible for Tsunami Plant Protection to test all possible combinations, the onus lies with the user to carry out a compatibility test, if tank mixtures are considered.
• The warnings, precautions, restrictions, recommendations, instructions and directions for use on the labels of the products that are mixed should be strictly adhered to.

Mixing Instructions:
• Half-fill the spray tank with clean water.
• Measure out the required quantity of DIURON 800 SC and premix this with at least 10 litres of clean water to a smooth cream.
• Fill the spray tank with water to the required volume, while maintaining agitation to ensure thorough mixing.
• It is very important that liquid formulations, as mentioned above, should not be mixed with DIURON 800 SC in a concentrated form. To avoid any problem, half-fill the spray tank with clean water, add the pre-mixed DIURON 800 SC, add more water and then add the liquid formulation in already diluted form.
• Maintain agitation during spraying.
• Use the prepared mixture immediately.
• Do not allow to stand overnight.

Application Instructions:
• Apply in 200 to 400 litres water per hectare.
• Use a flat fan type or flood nozzle and accurately calibrate spray equipment prior to treatment.

## DOSAGE RATES: A. Agricultural Use:

<table>
<thead>
<tr>
<th>CROPS</th>
<th>DOSAGE RATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CITRUS, AVOCADOS, MANGOES &amp; BANANAS</strong>&lt;br&gt;(established orchards only)</td>
<td>4,0 l/ha</td>
<td>Apply onto clean cultivated moist soil during the growing season. Repeat application after 2 to 3 months, if required. Where grass weeds are a problem in citrus, apply in combination with bromacil.</td>
</tr>
<tr>
<td><strong>PINEAPPLES</strong>&lt;br&gt;(post-plant or on established plants)</td>
<td>4,0 l/ha</td>
<td>Apply onto clean cultivated moist soil. Repeat applications at 2 litres per hectare every 4 months are preferable to a single application at full rate. Where grass weeds area problem apply in combination with bromacil.</td>
</tr>
<tr>
<td><strong>COFFEE, MACADAMIA &amp; PECAN NUTS</strong>&lt;br&gt;(established orchards only)</td>
<td>2,0 l/ha</td>
<td>Apply onto clean cultivated soil during spring. Repeat application after 2 to 3 months.</td>
</tr>
</tbody>
</table>

## SUGAR CANE PLANT AND RATOON CROPS

I. **Pre-emergence**<br>Using DIURON 800 SC alone<br>3,0 - 4,0 l/ha<br>Apply as a pre-emergence spray in 200 to 400 litres water per hectare. Use higher rates when severe weed infestation is anticipated or where longer residual activity is required on heavier soils.

II. **Pre- and early post-emergence**<br>combination with other herbicides as listed<br>

<table>
<thead>
<tr>
<th>DOSAGE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,5 l plus 1,4 - 3,8 l <strong>Venone 240 SL/ha</strong></td>
<td>Pre- or early post-emergence in 200 to 400 litres water per hectare. Use higher rates for severe weed infestations or less susceptible weed stage.</td>
</tr>
<tr>
<td><strong>OR</strong>&lt;br&gt;2,5 l plus 0,5 - 3,0 l <strong>Gramoxone/ha</strong></td>
<td>Early to late post-emergence. Use higher rates for severe weed infestation or less susceptible weed stage.</td>
</tr>
<tr>
<td><strong>OR</strong>&lt;br&gt;2,5 l plus 1,25 l <strong>Actril DS/ha</strong></td>
<td>Early post-emergence.</td>
</tr>
<tr>
<td><strong>OR</strong>&lt;br&gt;2,5 l plus 3,0 - 5,25 l <strong>2,4-D Amine/ha</strong> plus 0,2 % wetter</td>
<td>Early post-emergence. Use higher rates for severe weed infestation or less susceptible weed stage.</td>
</tr>
<tr>
<td><strong>OR</strong>&lt;br&gt;2,5 l plus 3,5 - 6,0 l <strong>MCPA/ha</strong> plus 0,2 % wetter</td>
<td>Early post-emergence.</td>
</tr>
<tr>
<td><strong>OR</strong>&lt;br&gt;3 l plus 3 l <strong>Agromate/ha</strong></td>
<td>Early post-emergence.</td>
</tr>
</tbody>
</table>

**NOTE:** DIURON 800 SC is compatible with all listed herbicides when the correct mixing procedures are followed.

**NOTE:**
• Grasses such as *Panicum maximum* (Buffalo grass), *Setaria verticillata* (Sticky bristle grass) and *Eleusine indica* subsp. *africana* can normally be controlled when one of the above combinations is applied when the grasses are actively growing and before they reach a height of 4 cm and before tillering.
• The control of *Sorghum verticilliflorum* is usually inadequate, while *Rottboellia exaltata*, *Cynodon dactylon* and *Paspalum* spp. are not controlled.

• *Cyperus esculentus* (Yellow nutsedge) will be controlled if sprayed just before flowering. Variable results may be obtained if sprayed earlier or during cold or dry weather conditions.

• *Cyperus rotundus* (Purple nutsedge) is not controlled.

**B. Industrial Use:**

<table>
<thead>
<tr>
<th>SITE OF APPLICATION</th>
<th>DOSAGE RATE</th>
<th>SPOT TREATMENT (PER 50 m²)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Along roads, railways and on industrial areas.</td>
<td>10,0 ℓ/ha</td>
<td>50 ml/50 m²</td>
<td>Where perennial grasses occur, DIURON 800 SC can be used in combination with bromacil.</td>
</tr>
</tbody>
</table>

**SOME WEED SPECIES NORMALLY CONTROLLED BY A PRE-EMERGENCE TREATMENT OF AT LEAST 2 LITRES DIURON 800 SC PER HECTARE:**

<table>
<thead>
<tr>
<th>Amaranthus hybridus</th>
<th>Common pigweed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amaranthus spinosus</td>
<td>Thorny pigweed</td>
</tr>
<tr>
<td>Amaranthus thunbergii</td>
<td>Red pigweed</td>
</tr>
<tr>
<td>Bidens bipinnata</td>
<td>Spanish blackjack</td>
</tr>
<tr>
<td>Bidens formosa</td>
<td>Cosmos</td>
</tr>
<tr>
<td>Bidens pilosa</td>
<td>Blackjack</td>
</tr>
<tr>
<td>Chenopodium album</td>
<td>White goosefoot</td>
</tr>
<tr>
<td>Chenopodium carinatum</td>
<td>Green goosefoot</td>
</tr>
<tr>
<td>Digitaria sanquinalis</td>
<td>Crab fingergrass</td>
</tr>
<tr>
<td>Eleusine indica subsp. africana</td>
<td>Goose grass</td>
</tr>
<tr>
<td>Gallinsoga parviflora</td>
<td>Gallant Soldier</td>
</tr>
<tr>
<td>Hibiscus trionum</td>
<td>Bladderweed</td>
</tr>
<tr>
<td>Portulaca oleracea</td>
<td>Purslane</td>
</tr>
<tr>
<td>Schkuhria pinnata</td>
<td>Dwarf marigold</td>
</tr>
<tr>
<td>Setaria verticillata</td>
<td>Sticky bristle grass</td>
</tr>
<tr>
<td>Tagetes minuta</td>
<td>Khakiweed</td>
</tr>
</tbody>
</table>

In addition to the weeds listed above, the following two tough weeds can be controlled in sugar cane by using tank mixtures of DIURON 800 SC with the products as indicated in the dosage rate table.

<table>
<thead>
<tr>
<th>Panicum maximum</th>
<th>Common buffalo grass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyperus esculentus</td>
<td>Yellow nutsedge</td>
</tr>
</tbody>
</table>