

DIUREX[®] 800 SC


Reg. no. L5334 Act/Wet 36 of/van 1947



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

GROUP	C2	HERBICIDE
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<p>A suspension concentrate herbicide with long residual action for the control of annual weeds as listed in citrus, avocados, bananas, coffee, mangoes, pineapples, macadamia nuts and sugarcane as well as for industrial us.</p>	<p>'n Suspensiekonsentraat onkruidodder met lang nawerking vir die beheer van eenjarige onkruid, soos aangetoon, in sitrus, avokado's, mango's, koffie, pynappels, makadamia- en pekanneute, piesangs en suikerriet asook vir industriële gebruik.</p>
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 <p>WARNING</p>	<p>Hazard statements Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Diuron (substituted urea)..... 800 g/LDiuron (gesubstitueerde urea)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

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UN no.: 3082

EMERGENCY NUMBERS:

Griffon Poison Information Centre: +27 82 446 8946
Tygerberg Poison Information Centre: +27 861 555 777

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum

WARNINGS

- Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store away from food, feed, seed, fertilizer and other agricultural chemicals.
- 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 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 weed against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, and the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier or registration holder in the event of any uncertainty.

PRECAUTIONS

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Obtain, read and follow all safety instructions before use.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If exposed or concerned get medical advice.
- Get medical help if you feel unwell.
- Avoid release to the environment.
- Collect spillage.
- Store locked up.
- Dispose of contents/ container to an approved waste disposal plant.

- Wash with soap and water after use.
- Prevent spray drift onto other crops, grazing, rivers, dams and any area not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not apply where the roots of susceptible plants can absorb the chemical.

IMPORTANT

Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy empty container by perforations and flattening and never use for any other purpose.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Diuron	>60%	330-54-1

FIRST AID

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.

Take the container label or product name with you when seeking medical attention.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Ingestion: If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Get medical attention immediately if symptoms occur.

TOXICOLOGICAL INFORMATION

Antidotes

No specific antidote. Treat symptomatically.

Symptoms of human poisoning

None known.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

For resistance management **DIUREX® 800 SC** is a group code C2 herbicide. Any weed population may contain individuals naturally resistant to **DIUREX® 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 **DIUREX® 800 SC** or any other group code C2 herbicides.

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 codes.
- Integrate control methods (chemical, cultural and biological) into weed control programs.

For specific information contact the local distributor agent or the registration holder.

MODE OF ACTION

C2: Inhibition of photosynthesis at PSII – Serine 264 binders.

WEEDS SPECIES NORMALLY CONTROLLED BY A PRE-EMERGENCE TREATMENT OF AT LEAST 2.0 L DIUREX® 800 SC/HA

Botanical Name	Common Name
<i>Ageratum conyzoides</i>	Billygoat weed
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Bidens formosa</i>	Cosmos
<i>Bedens pilosa</i>	Common blackjack
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Digitaria sanguinalis</i>	Crabfinger grass
<i>Eleusine indica</i>	Goose grass
<i>Galingsoga parviflora</i>	Gallant soldier
<i>Hibiscus trionum</i>	Bladder weed
<i>Portulaca oleracea</i>	Common purslane
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Setaria verticillata</i>	Bur bristle grass
<i>Tagetes minuta</i>	Tall khakiweed



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

Botanical Name	Common Name
<i>Panicum maximum</i>	Guinea grass
<i>Cyperus esculentus</i>	Yellow nutsedge

This product controls annual weeds. Other annual weeds that were not present during the development trials with the product, may possibly also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted weeds.

For the control of additional weeds in other crop and industrial weed control situations, see recommendations under 'REMARKS' in the table below.

DIRECTIONS FOR USE

Use only as directed.

DIUREX® 800 SC applied pre-emergence on its own is absorbed by the roots of germination 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 optimal results. Application should preferably be made onto a moist soil.

Mixing instructions

Apply in 200 – 400 L water/ha. Use a flat fan type or flood nozzle and accurately calibrate spray equipment prior to treatment. Mix the required quantity of **DIUREX® 800 SC** in a small quantity of clear water to make a smooth cream. Then pour into the tank through a sieve. Top up with water. Keep the chemicals in continuous suspension in the spray tank by means of proper agitation. Once mixed, the mixture should not be allowed to stand overnight.

Compatibility

DIUREX® 800 SC can be mixed with MCPA, paraquat, MSMA, VELPAR 240 (L370I), METRIBUZIN and SPOTAXE (L4302). It is very important that such liquid formulations should not be mixed with **DIUREX® 800 SC** in a concentrated form. To avoid any problem, half fill the spray tank, add **DIUREX® 800 SC** by, fill the tank with water and then add the other liquid formulation in already diluted form.

APPLICATION RATES

A) AGRICULTURAL USE

CROP/TARGET	DOSAGE (L/ha)	REMARKS
<p>Avocados, bananas, citrus and mangoes</p> <p>In established orchards only</p>	4.0	Apply onto clean cultivated, moist soil during the growing season. Repeat application after 2 – 3 months if required. Where grass weeds are a problem in citrus, apply in combination with BROMACIL WP. See BROMACIL label for rates of application.
<p>Pineapples</p> <p>Post plant or on established plants</p>	4.0	Apply onto clean cultivated, moist soil. Repeat applications at 2 L/ha every 4 months are preferable to a single application with BROMACIL WP. See BROMACIL label for rates of application.
<p>Coffee, macadamia and pecan nuts</p> <p>(established trees)</p>	2.0	Apply onto clean cultivated soil during spring. Repeat application after 2 – 3 months.
<p>Sugarcane</p> <p>(Plant- and ratoon crops)</p> <p>a) Pre-emergence: Use DIUREX® 800 SC alone</p> <p>b) Pre- and post in combination with other herbicides</p> <p>Note: DIUREX® 800 SC is compatible with all these herbicides when the correct mixing procedures are followed.</p>	<p>3.0 – 4.0</p> <p>2.5 L DIUREX® 800 SC hexazinone 1.5 L/ha or</p> <p>2 L DIUREX® 800 SC metribuzin 3 L/ha or</p> <p>2 L DIUREX® 800 SC paraquat 2.5 L/ha or</p> <p>2.5 L DIUREX® 800 SC MCPA 3.5–6 L/ha registered surfactant or</p> <p>3 L DIUREX® 800 SC MSMA 3 L/ha</p>	<p>Apply as a pre-emergence spray in 200 – 400 L water/ha. Use higher rate where severe weed infestation is anticipated or where longer residual activity is required on heavier soils.</p> <p>For additional control of <i>Panicum maximum</i> and <i>Cyperus esculentus</i>. Use higher rate for severe weed infestation of less susceptible weed stage.-</p> <p>Pre- or early post emergence</p> <p>Pre- or early post emergence</p> <p>Early to late post emergence</p> <p>Early post emergence</p> <p>Early post emergence</p>

CROP/TARGET	DOSAGE (L/ha)	REMARKS
		Note: <i>C. rotundus</i> is not controlled

- *Panicum maximum* can normally be controlled when one of the above combinations is applied when the grass is actively growing and before it reaches a height of 4 cm and before tillering.
- *Cyperus esculentus* (geeluintjies) will be controlled if sprayed just before flowering, otherwise variable results may be obtained if sprayed earlier or during cold or dry weather conditions.
- The control of *Sorghum verticilliflorum* is usually inadequate, while *Rottboellia exaltata*, *Cynodon dactylon* and *Paspalus spp* are not controlled.

B) INDUSTRIAL AND NON-CROP AREAS

APPLICATION SITE	DOSAGE (L/ha)	SPOT TREATMENT (per 50 m ²)	REMARKS
Along roads, railway tracks and on industrial sites.	10	50 ml	Where perennial grasses occur, DIUREX® 800 SC can be used in combination with PROPROP or BROMACIL. See labels for application rates.