



A water soluble, systemic herbicide with residual activity acting through leaves, roots and cut surfaces of certain woody plants in grazing, conservation areas and on land not used for growing crops. Not suitable for use in gardens.

'n Wateroplosbare, sistemiese onkruidodder met nawerkende aksie wat opgeneem word deur die blare, wortels en snyvlakke van sekere houtagtige plante soos gelys, in weiding- en bewaringsgebiede en areas nie onder gewasverbouing nie. Nie geskik vir gebruik in tuine nie.

HRAC HERBICIDE GROUP CODE:	O	HRAC ONKRUIDDODERGROEP KODE:
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Picloram (pyridine carboxylic acid) (as potassium salt)240 g/l
Pikloram (piridienkarboksielsuur) (as kaliumsout).....240 g/l

Registration holder / Registrasiehouer:

ARYSTA LifeScience South Africa (Pty) Ltd

Co. Reg. No./Mpy. Reg. Nr.: 2009/019713/07

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.

BROWSER

Reg. No.: L 7357 Act/Wet No. 36 of/van 1947

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Co. Reg. No./Mpy. Reg. Nr.: 2009/019713/07

Units 54/55, 61 Marshall Drive, Mount Edgecombe, 4300

Tel: 031 5389700

CAUTION / VERSIGTIG

WARNINGS:

- Handle with care.
- Poisonous when swallowed.
- Avoid contact with eyes since product may cause severe eye irritation.
- Avoid contact with skin as this may cause sensitization.
- Store in the original container in a cool, dry, well-ventilated place out of direct sunlight.
- Store away from food, feeds, seeds and other agricultural remedies and fertilizers.
- Keep behind lock and key and out of reach of children, animals and uninformed persons.

Although this herbicide 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 effects 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 to the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment 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

- Avoid contact with skin and eyes and do not inhale spray mist.
- Wear protective clothing (overall, face shield and rubber gloves) when handling the concentrate and preparing the spray mixture. Wear rubber gloves, overall and boots when applying the prepared spray mixture. Wash protective clothing daily.
- Do not eat, drink or smoke whilst mixing / applying this product but wash hands and face thoroughly before doing so.
- Do not contaminate eating utensils, food, feeds, drinking water or any other water sources.
- In case of accidental eye contact, flush eyes immediately with clean water for at least 15 minutes.
- In case of accidental skin contact, immediately wash thoroughly with soap and water. Contaminated clothing should be removed and washed before being used again.
- Do not allow spray to drift onto susceptible crops, grazing, rivers, dams and areas not to be treated.
- Do not use contaminated plants, grass etc. as compost.
- Excretion of animals grazing in the treated area should not be used as fertilizer.

- Clean all measuring utensils and application equipment thoroughly after use and before using it to apply any other remedy. Dispose of wash water responsibly to prevent contamination of the environment and water sources.
- **Spray equipment cleaning:** after using, the application spray equipment must be thoroughly rinsed and cleaned in an open, well-ventilated area before re-use.
 - i) Drain the tank and spray equipment completely and flush the entire system with clean water for 10 minutes;
 - ii) Fill the spray tank with clean water and add 1.0 l of household ammonia (contains 3 %) for every 100 l water. Circulate the ammonia solution through the tank, boom and hoses for at least 15 minutes. Drain completely.
 - iii) To remove traces of ammonia, rinse the tank with clean water and flush through booms and hoses.
 - iv) Repeat steps (ii) and (iii).
 - v) Nozzles and filters must be removed and cleaned separately with ammonia solution at the same concentration as above.
 - vi) Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
- **Do not spray, drain or flush equipment on or near desirable trees or plants or where their roots may extend.**
- **Container disposal:**
 - Rinse empty container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the spray tank.
 - Destroy empty container by perforating and flattening.
 - Never re-use an empty container for any other purpose.

RESISTANCE WARNING

For resistance management **BROWSER** is a group code **O** herbicide. Any weed population may contain individuals naturally resistant to **BROWSER** and other group code **O** herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **BROWSER** or any other group **O** herbicides. To delay herbicide resistance:

1. Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate tank mix with products from different herbicide codes.
2. Integrate control methods (chemical, cultural and biological) into weed control programs.

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

USE RESTRICTIONS

General

- Avoid drifting of spray mist onto sensitive broadleaf crops, fruit, trees, ornamentals, grazing or any other area not to be treated.
- Avoid contact with soil in the root zone of these plants or with soil in which such plants are to be grown.
- Take the necessary precautionary measures to avoid spray drift onto desirable plants and/where such plants are to be grown when application is to be performed near/adjacent to such plants / land.
- Do not allow spray mist to drift into rivers, dams, irrigation water or any other water bodies.
- **BROWSER** is not suitable for use in gardens, orchards or nurseries.

Distance to separate the treated area from susceptible crops is determined by wind speed and direction at the time of application. Refer to table below.

Wind speed Km/h	Ground application	Wind speed Km/h	Ground application
1,5 - 5	200 m downwind 200 m crosswind 6 m upwind	10 – 15	800 m downwind 400 m crosswind 1,5 m upwind
5 - 10	400 m downwind 200 m crosswind 1,5 m upwind	Above 15	Prohibited

DIRECTIONS FOR USE: use only as directed

It is a violation of Government Notices R.1716 of 26 July 1991 and R.181 of 7 February 2003 issued in terms of the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No 36 of 1947), to use this product in a manner inconsistent with its labeling.

Time of application

- Apply only on actively growing plants when leaves have fully developed.
- Apply on healthy and vigorously growing trees with full foliage cover.
- Apply when soil moisture is most favorable for plant growth.
- Do not apply when foliage is wet due to rain / dew.
- Do not apply to plants suffering from stress conditions such as drought, frost, water logging etc.

A. Foliar/stem treatment

General

- Apply as a complete cover spray to leaves and green shoots of actively growing plants (not exceeding 2 m) with full leaf cover.
- Wet foliage till point of run-off.
- Do not apply to foliage that is wet by rain/dew or if rain is expected within 3 hours.
- Do not exceed spray height of 20 cm above target tree.
- Do not spray when the wind speed exceeds 15 km/h.
- The difference between the wet and dry bulb thermometer readings as determined by a whirling hygrometer must not exceed 8 °C
- **Do not apply within the root zone of desirable vegetation.**

Knapsack

- Apply with a knapsack sprayer fitted with a solid cone nozzle (e.g. Spraying Systems TG-2 or equivalent).
- Apply as a coarse spray, avoiding fine droplets.
- Ensure even coverage of the target area.
- Apply at a constant pressure of 200 – 250 kPa.
- Maintain a distance of \pm 50 cm from target area.

High Volume

- Add foaming agent at a rate of 500 ml /100 l of spray solution as temporary application marker.
- Apply with a motorized pump capable of applying pressure of 1 000 – 1 200 kPa.
- Nozzle: Foamjet FJ 0006 aspirating nozzle or equivalent.

B. Cut stump treatment

- Apply immediately or within 10 minutes after felling.
- Do not apply when the cut stump surface is wet from rain or dew.
- Apply as a coarse spray using a knapsack with solid cone nozzle (Spraying Systems TG-2 or equivalent type).
- Apply at a constant low pressure of 100 kPa.
- **Limit run-off into the soil from treated stumps if they are located within the root zone of desirable vegetation.**

C. Frill method

- Make horizontal, downward angled cuts through the bark of target trees using an axe.
- Cuts should be as close to the soil surface as possible and connected around the entire circumference of the trunk.
- Do not penetrate cuts deeper than the sapwood.
- Apply product directly into every cut, taking care that product is not unnecessarily wasted on the bark.
- If re-growth occurs from the crown, apply as a foliar spray.
- Trees with multiple stems – each stem should be treated separately.
- Make sure that adequate sap flow and bleeding occurs.

A. Foliar treatment application

Note: add H&R CROP OIL at a rate of 500 ml/100 l spray mix for foliar applications with a knapsack.

Species	Rate/100 l water	Remarks
<i>Dichapetalum cymosum</i> (gifblaar)	1,0 l	<ul style="list-style-type: none">• Apply only when <i>Dichapetalum cymosum</i> is fully developed, before the leaves start to turn yellow.• Do not apply before the onset of summer, when most of the new stems have emerged and produced mature leaves. If application is done in early spring when most of the new growth consists of recently emerged stems and immature leaves, unsatisfactory control will be obtained.• Do not apply if more than a quarter of the target plant foliage is damaged by hail or insects.• A follow-up application on re-growth in the second season might be necessary.• Application on mature stems without leaves necessitate an application on the surrounding soil \pm 30 cm from stem.
<i>Lantana camara</i> (Lantana)	0,75–1,0 l	Older, previously slashed plants with big stumps require a higher rate.

Species	Rate/100 ℓ water	Remarks
<i>Rubus cuneifolius</i> (bramble)	440 ml	<p>High volume application Add foaming agent at a rate of 500 ml /100 ℓ of spray mix.</p> <p>Apply sufficient spray mix till the point of run off to young actively growing plants up to 1,0 m high.</p> <p>Plants higher than 1,0 m should be slashed. Treat regrowth when it is at least 0,25 m high.</p>
<i>Senegalia caffra</i> (common Hookthorn), <i>Vachellia karroo</i> (sweet thorn), <i>Vachellia nilotica</i> (scented thorn), <i>Dichrostachys cinerea</i> (sickle bush), <i>Dombeya rotundifolia</i> (“drolpeer”), <i>Euclea divinorum</i> (magic guarri), <i>Grewia flava</i> (brandy bush), <i>Lopholoeana coriifolia</i> (Lopholeana), <i>Ziziphus mucronata</i> (buffalo-thorn)	350 ml	<p>Knapsack application Add H&R Crop Oil at a rate of 500 ml /100 ℓ spray mixture</p> <p>High volume application Add foaming agent at a rate of 500 ml /100 ℓ of spray mix.</p>
<i>Asparagus laricinus</i> (katbos)	2 ℓ	<p>Knapsack and high volume application Add H&R CROP OIL at a rate of 1 ℓ/100 ℓ spraymix..</p> <p>Apply during summer as a full cover spray once foliage has developed fully. Apply to the point of run-off. The addition of a suitable colourant may help ensure that all foliage is targeted during spraying. Limited and temporary damage to grass may occur where the soil and grass are also treated during application.</p> <p>A follow-up treatment may be required during the following summer.</p>

B. Cut stump application

Species	Rate/100 ℓ water	Remarks
<i>Acacia dealbata</i> (silver wattle), <i>Acacia mearnsii</i> (black wattle)	1,5 ℓ	Refer to "Cut stump treatment" above. Add H&R CROP OIL at a rate of 500 ml/100 ℓ spray mixture.
<i>Acacia saligna</i> (Port Jackson)	2,0 ℓ	Apply to complete cut surface of low cut stumps (10–20 cm high) with a diameter of less than 10 cm until point of run-off.
<i>Lantana camara</i> (Lantana) <i>Solanum mauritianum</i> (bugweed)	1,0 ℓ	Apply to the cambial region (sapwood) of the cut surface of bigger stumps (> 20 cm) until point of run-off. A follow-up spray as a coppice application might be necessary.
<i>Eucalyptus duneii</i> <i>Eucalyptus macarthurii</i>	3,0 ℓ	Add H&R CROP OIL at a rate of 2,0 ℓ/100 ℓ spray mixture.
<i>Eucalyptus smithii</i>	2,0 ℓ	Apply to the cambial region of low cut stumps (10–20 cm high) with a single cut surface until point of run-off.
<i>Eucalyptus grandis</i>	1,5 ℓ	A follow-up spray as a coppice application might be necessary.
<i>Populus canescens</i> (grey poplar)	2,0 ℓ	
<i>Vachellia karroo</i> (sweet thorn), <i>Senegalia mellifera</i> (black thorn),	2,0 ℓ	Add H&R CROP OIL at a rate of 2,0 ℓ/100 ℓ spray mixture. Apply to complete cut surface of low cut stumps (10–20 cm high) with a diameter of less than 10 cm until point of run-off.
<i>Colophospermum mopane</i> (Mopane), <i>Dichrostachys cinerea</i> (sickle bush)	2,0 ℓ	A follow-up spray as a coppice application might be necessary.

C. Frill application

Species	Rate/10 ℓ water	Remarks
<i>Acacia mearnsii</i> (black wattle)	600 ml BROWSER + 200 ml H&R CROP OIL	Refer to "Frill method" above.
<i>Eucalyptus grandis</i>	200 ml BROWSER + 50 ml H&R CROP OIL	Apply sufficient mixture to fill the frill without unnecessary wastage down the bark.

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