


TOMAHAWK® 200 EC

Reg. no. L6652 Act/Wet 36 of/van 1947
N-AR 1161



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

GROUP	O	HERBICIDE
<p>A systemic emulsifiable concentrate herbicide for the control of certain woody plants as listed in forestry, grass pastures and industrial areas as well as volunteer potatoes in maize and wheat.</p>		
<p>'n Sistemiese emulgeerbare konsentraat onkruidodder vir die beheer van sekere houtagtige plante soos hieronder aangedui in bosbou, grasweidings en industriële gebiede sowel as opslagaartappels in koring en mielies.</p>		
 <p>DANGER</p>		<p>Hazard statements May be fatal if swallowed and enter airways. Causes serious eye damage. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection, face protection.</p>

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Fluroxypyr..... 200 g/LFluroksipir
(Aryloxyphenoxy propionic acid) (Arieloksiefenoksie propioonsuur)

NET VOLUME/NETTO VOLUME

..... L

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

- May be fatal if swallowed and enter airways.
- Causes serious eye damage.
- May cause drowsiness or dizziness.
- Very toxic to aquatic life with long lasting effects.

Allow 30 days between last application and grazing of treated areas.

Allow at least 90 days between the last application and planting of Cucurbits and Bean crops.

- Handle with care.
- Store in a cool, dry place away from food, feed, seed and other agricultural chemicals.
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Although this remedy has been extensively tested under 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, the occurrence of resistance of the weed to the product, 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 the 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.

PRECAUTIONS

- Keep out of reach of children.
- Wear protective gloves, protective clothing, eye protection, face protection.
- Store in a well-ventilated place. Keep container tightly closed.
- Avoid breathing dust/fumes/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes.
- Use only outdoors or in well-ventilated area.
- Avoid release to the environment.
- IF SWALLOWED: Get emergency medical help.
- Do NOT induce vomiting.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- Get medical help if you feel unwell.
- Collect spillage.

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| <ul style="list-style-type: none"> Store locked up. Dispose of contents/container in accordance with national regulation. |
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- Wash contaminated clothing with soap and water.
 - Do not eat, drink or smoke while mixing or applying the product or before hands and face are washed.
 - Prevent drift of the spray mist onto other crops, pastures, rivers, dams or any other area that is not under treatment.
 - Clean application equipment after use and dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
 - Prevent the contamination of food, drinking water, eating utensils and feeds.
 - Rinse empty container three times with a volume of water equal to at least 10% of the volume of the container. Add the rinsings to the spray tank. Destroy the empty container by perforating and flattening it. Never use the container for any other purpose.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Hydrocarbons, C10, aromatics, <1% naphthalene	>60%	EC no: 918-811-1
Fluroxypyr-meptyl	10–30%	81406-37-3
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	<10%	90194-26-6
2-Ethylhexanol	<10%	104-76-7

FIRST AID

In case of accident or unwellness, seek medical advice immediately. Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.

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. Get immediate medical advice/attention.

Skin contact: Remove all contaminated clothing and shoes. Wash the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Consult a physician if necessary.

Inhalation: Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer



artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician.

Ingestion: Call a poison control center or medical practitioner immediately for treatment advice. If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. If symptoms persist, call a physician.

TOXICOLOGICAL INFORMATION

Antidotes

None known. 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.

MODE OF ACTION

O: Auxin mimics – growth regulators.

RESISTANCE WARNING

For resistance management **TOMAHAWK® 200 EC** is a group Code O herbicide. Any weed population may contain individuals naturally resistant to **TOMAHAWK® 200 EC** 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 **TOMAHAWK® 200 EC** or any other group O 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 programmes.

For specific information on resistance management contact your local distributor

DIRECTIONS FOR USE.

Use only as directed.

Mixing instructions

Half fill the spray tank with clean water. If necessary, the pH of the spray mixture can be corrected ($\text{pH} < 7$) by making use of a suitable buffer. Mix the required volume of **TOMAHAWK® 200 EC** separately in a small amount of water and add to the spray tank while agitating. Fill the spray tank with water while agitation is kept up. Just before the spray tank is filled, add the adjuvant, based on a mineral oil, to the content of the spray tank according to the dosage rates indicated below. Ensure that the spray mixture is constantly agitated during the mixing process and application.

APPLICATION

Foliar application

- **TOMAHAWK® 200 EC** can be applied by tractor mounted boomsprayers, knapsack sprayers or similar suitable applicators which are fitted with solid cone nozzles and which are able to distribute the spray mixture evenly over the target area.
- Foliar application should only take place when target plants are not subjected to any stress factors like drought, high or low temperatures or any other factor that may have a negative effect on active growth.
- Do not apply when the foliage is wet.

Stem application

Only *Solanum mauritianum* (Bug tree) See "Remarks" under *Solanum mauritianum*.

Plants with a stem diameter up to 100 mm can be treated in this way. **TOMAHAWK® 200 EC** is mixed in diesel and applied as a coarse droplet spray by knapsack sprayer up to height of 0.25 m from the ground level around each stem. Application can also be done by means of a paint brush. All stems and exposed roots must be evenly and thoroughly wetted. Application should not be done when stems are wet because of dew or rain.

USE RESTRICTIONS

- Do not allow spray mist to contaminate susceptible crops e.g., Potatoes or sunflower.
- Prevent direct spraying on the foliage of *Pinus radiata*.
- Do not spray directly into the funnels of maize plants.
- It takes considerable time for target plants to die off completely. Some woody plants might take up to 4 to 5 months to die off completely. Active growth of the target plants stop shortly after application.
- It is of the utmost importance that the target plants are growing actively at application.
- When treating woody plants, it is very important to use an adjuvant based on a mineral oil according to the label recommendations.
- Do not use **TOMAHAWK® 200 EC** in sweetcorn or popcorn.

APPLICATION RATES

A. WOODY PLANTS

Plant	DOSAGE RATE	REMARKS
Rooikrans <i>Acacia cyclops</i> Seedlings only, not higher than 0.5 m	250 ml + 500 ml mineral oil/100 L water	Foliar application: Use enough spray mixture to ensure thorough wetting of young actively growing seedlings up to 0.5 m high. To ensure that seedlings grow actively application should be done in late spring or early summer after sufficient rainfall in winter. An adjuvant based on a mineral oil should be added at 500 ml per 100 L water. Buffer the spray mixture with a suitable buffer to obtain a pH of 5 to 6.
Black wattle <i>Acacia mearnsii</i>	125 ml + 500 ml mineral oil/100 L water	Foliar application: Use sufficient spray mixture to cover all leaves and stems of young actively growing plants with a maximum height of 1.0 m. An adjuvant based on a mineral oil must be added at a rate of 500 ml/100 L spray mixture.
Blackwood <i>Acacia melanoxylon</i>	125 ml + 500 ml mineral oil/100 L water	Foliar application: Use sufficient spray mixture to cover all leaves and stems of all young actively growing plants with maximum height of 1.0 m. An adjuvant based on a mineral oil must be added at a rate of 500 ml/100 L spray mixture.
Port Jackson <i>Acacia saligna</i> Seedlings as well as re-growth not higher than 0.5 m	250 ml + 500 ml mineral oil/100 L water	Foliar application: Use sufficient spray mixture to thoroughly wet all leaves and stems of actively growing plants up to point of run-off for seedlings up to 0.5 m high. To ensure that plants grow actively application should be done in late spring or early summer after sufficient rainfall in winter. An adjuvant, based on a mineral oil, should be added at 500 ml per 100 L water. Buffer the spray mixture with a suitable buffer to obtain a pH of 5 to 6. When applying to regrowth it should be ensured that all shoots, leaves and stems are thoroughly wetted.
Satans bush <i>Solanum elaeagnifolium</i>	250 ml/100 L water + 500 ml mineral oil/100 L water OR 500 ml/ha + 1.0 L mineral oil Follow on spot spray 125 ml + 500 ml mineral oil/100 L water	Foliar application: Apply to young actively growing plants in spring or early summer. Apply in at least 200 L water/ha and ensure that all leaves and stems are thoroughly wetted to just before the point of run-off. Because <i>Solanum elaeagnifolium</i> has a very deep root system, it may have re-growth from the rootstocks. It is recommended that this regrowth be treated with a spot spray. Apply the re-spray to actively growing plants and ensure that all leaves and stems are thoroughly wetted to just before the point of run-off.

Plant	DOSAGE RATE	REMARKS
Bug tree <i>Solanum mauritianum</i>	125 ml/100 L water 1.0 L/100 L diesel	<p>Foliar application: Use sufficient spray mixture to thoroughly wet all leaves and stems of young actively growing plants which do not exceed a height of 1.0 m. If plants exceed a height of 1.0 m they should be slashed and allowed to regrow. When the regrowth has reached a height of at least 0.5 m it should be sprayed. An adjuvant based on a mineral oil should be added at a rate of 500 ml/100 L to the spray mixture.</p> <p>Stem treatment: Treat all stems and thoroughly to a height of 0.25 m from the soil surface. Ensure thorough wetting of the basal part of the stem. Treat only plants which are growing actively and which have a stem diameter of less than 100 mm.</p>

B. CONTROL OF VOLUNTEER POTATOES

CROP TARGET AND	DOSAGE	REMARKS
Maize and wheat Volunteer potatoes	0.75–1.0 L/ha	<p>Start application as soon as most potatoes have emerged and are in the 6-leaf stage. Use the lower dosage for potatoes in the 6- to 8-leaf stage and the higher dosage for potatoes from the 8-leaf stage up to flowering. Ensure that all leaves and stems of the potatoes are thoroughly wetted. In case of spraying volunteer potatoes in maize, the maize must be at least 0.5 m high at the time of application. Do not apply in the funnels of maize plants or spray over the maize plants. Use a directed spray to ensure that no shading off of the spray mixture on the potatoes takes place. It takes about 12 to 15 days for the first symptoms to be noticed. Do not use as an adjuvant based on a mineral oil. Only potatoes present at application will be controlled. Potatoes germinating after application will not be controlled.</p> <p>Do not use in sweet corn or popcorn. Wheat should preferably be in the 2-leaf stage to the stem elongation stage when application is done.</p>