



# HATCHET

Reg. No.: L7409 Act /Wet No. 36 of/van 1947

**READ ATTACHED PACKAGED LEAFLET BEFORE USE  
AND  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

<b>HRAC HERBICIDE GROUP CODE:</b>	<b>2</b>	<b>HRAC ONKRUIDDODER GROEPKODE:</b>
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A non-selective systemic herbicide solution with residual activity for the control of the listed invader plants in forestry, grazing, industrial and conservation areas.

’n Nie-selektiewe sistemiese onkruidodder-oplossing met nawerking vir die beheer van gelyste indringerplante soos aangetoon, in bosbou, weiding, industriële en natuurbewaringsgebiede.



**GHS05**

**DANGER**

**Hazard statements**

May be harmful if swallowed.  
Causes serious eye damage.  
Causes mild skin irritation.  
Harmful to aquatic life.

**Precautionary statements**

Wear protective gloves, protective clothing, eye protection, face protection.  
Call a POISON CENTRE or doctor if you feel unwell.

**ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:**

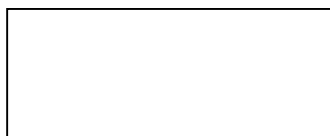
Imazapyr (Imidazolinone) / Imasapir (Imidasolinoon) .....100g/l

**Registration holder /Registrasiehouer:**

UPL 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  
e

Batch No. ....  
Date of Manufacture.....  
Expiry date (< 2 years)....



.....Lot Nr.  
Datum van Vervaardiging  
...( <2 jr)...Vervaldatum

**U.N. No. / VN Nr: 3082**  
**Emergency number**

**: Griffon Poison Information Centre: 082 4468946,**  
**Poisons Information Helpline: 0861 555 777,**  
**In case of Spillage: Spill Tech: 086 100 0366 / 083 253 6618**

## **WARNINGS:**

H303 - Harmful if swallowed.  
H318 - Causes serious eye damage.  
H316 - Causes mild skin irritation.  
H402 - Harmful to aquatic life.

- Keep out of reach of children, uninformed persons and animals.
- Store in a cool dry place away from food and feed.

**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, 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 that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.**

## **PRECAUTIONS:**

P101 – If medical advice is needed, have product container or label at hand.  
P102 – Keep out of reach of children.  
P103 – Read carefully and follow all instructions.  
P264+P265 - Wash hands, forearms and face thoroughly after handling. Do not touch eyes.  
P273 – Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P317 – IF SWALLOWED: Get medical help.  
P305+P354+P338 – IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P317 – Get medical help.  
P332+P317 – If skin irritation occurs: Get medical help.

- Do not eat, drink or smoke while mixing or spraying.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.
- Wash hands and face with soap and water after use and / or accidental skin contact.
- Avoid spray drift onto other crops, grazing, rivers, dams and any area not under treatment.
- Mildly corrosive. Thoroughly wash and rinse spray equipment after use and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- **Triple rinse** empty container 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 and add the rinsings to the contents of the spray tank before destroying the container.
- Destroy the container by perforation, flattening and burying, and never re-use for any other purpose.

## **RELEVANT SUBSTANCES:**

Imazapyr	10 – 20%
fatty alcohol polyglycol ether	2.5 – 10%
Isopropylamine	2.4%

**FIRST AID:**

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**RESISTANCE WARNING**

For resistance management **HATCHET** is a group code **2** (HRAC) herbicide. Any weed population may contain individuals naturally resistant to **HATCHET** and other group code **2** herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **HATCHET** or any other group **2** herbicides. To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate tank mix with products from different herbicide codes.
- 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:**  
Solutions of **HATCHET** should not be allowed to run off treated stumps onto the soil. **HATCHET** has limited movement horizontally or vertically in soil, but actions to limit movement of **HATCHET** onto the soil will minimise chances of contact with crop or other beneficial plants.
- **Waiting periods in Forestry usage:**  
Allow the stipulated periods to pass before replanting the listed forest crop species. This applies to replant situations following cut stump treatments after clear felling *Eucalyptus* plantations.

REPLANT SPECIES	COMMENTS	WAITING PERIOD
<i>Eucalyptus spp.</i> (gum trees)	<i>Eucalyptus</i> seedlings should only be replanted into compartments with <b>HATCHET</b> -treated stumps after 120 days have elapsed from the treatment. This applies to the normal forest situations with heavier soils.	120 days
	A waiting period of one year is recommended for soils consisting mostly of sand and with low clay and organic matter contents. These soils occur in northern Kwa-Zulu-Natal and along the eastern seaboard.	1 year
<i>Pinus spp.</i> (pine trees)	Wherever pine seedlings are to be planted close to the treated gum stumps, a restraint period of about 30 days should be applied to avoid possible effects of drift or run-off from the treated stumps. Where the pine seedlings are to be planted between the old rows of <i>Eucalyptus</i> stumps, they may be planted immediately after clear felling is complete.	Up to 30 days
<i>Acacia spp.</i> (wattle trees)	Wattle seedlings may be transplanted immediately after felling and treating <i>Eucalyptus</i> cut stumps.	None

- Where thinning within a *Eucalyptus* compartment is to be carried out, **HATCHET** should not be used. Nor should foliar applications of **HATCHET** be applied in *Eucalyptus* compartments.
- In pine and wattle plantations, **HATCHET** should only be used when seedlings are well established and where there is no chance of drift or other sources of **HATCHET** landing on leaves of the crop plants.
- The waiting periods specified above apply to normal forest replant conditions. Where dissipation of residual **HATCHET** is in any way retarded or where high levels exist in the root zone of transplanted seedlings (e.g. drought, dosage variations and/or foliar applications), the waiting period on planting should be extended.
- When invaders and other weeds are to be controlled in forest compartments, no more than 3 l/ha should be applied.

## **DIRECTIONS FOR USE: USE ONLY AS DIRECTED**

### **General information:**

- **HATCHET** is a systemic herbicide with very limited variation in selectivity. *Eucalyptus* species are particularly sensitive and it can be used for eradication and stump control of these species in most situations. Invader plants may also be controlled by **HATCHET** in forestry, conservation areas, industrial stands and grazing areas. The product is readily absorbed through foliage, roots and freshly cut sapwood regions and it is rapidly translocated to the meristematic regions.
- Greatest efficacy of the herbicide is achieved by applying it onto cut stumps where it reaches the growing tissues and is translocated to other growth regions of the plant. It is more effective than foliar applications. The cut stump application method reduces the amount of product required and minimises environmental exposure.
- Although **HATCHET** appears to be slow acting, growth is arrested soon after application to plants. Response to the herbicide is particularly rapid when growing conditions are ideal and is slow when plants are dormant or stressed. Deformed leaf and shoot growth may appear under certain conditions, but further treatment will only be necessary if normal re-growth follows.
- Best control of woody weeds is achieved when the stems are cut close to the ground before **HATCHET** is applied to the cut surfaces. Only newly cut surfaces should be treated. Branched or multi stems should be treated as individual plants.
- An alternative method of application is to expose the sapwood by frilling right around the stem before applying the recommended dosage of **HATCHET**. Cut stems and frills should be cut as close to the ground as possible.

### **Compatibility:**

**HATCHET** is not compatible with oil-based adjuvants, including diesel. **HATCHET** formulation is complete and no additional adjuvants are recommended in application solutions.

### **Mixing instructions:**

Half-fill the mixing container with clean water. Shake container well and measure the required volume of **HATCHET** and add it to the container. Stir the contents of the container continuously while filling to the required level with clean water.

**A. GENERAL PLANT CONTROL: CUT STUMP TREATMENT OF INVADER PLANTS IN FORESTRY, GRAZING, INDUSTRIAL AND CONSERVATION AREAS.**

COMMON NAME	BOTANICAL NAME	HATCHET DOSE / 10ℓ WATER	DIRECTIONS FOR APPLICATION
Black wattle	<i>Acacia mearnsii</i>	1 000 ml (10%)	<p>These weeds can best be controlled by cut stump treatments with <b>HATCHET</b> in grazing, industrial and conservation areas. In forestry the use should be restricted to pine and wattle plantations.</p> <p>Stems of weeds should be cut as close to the ground as possible and <b>HATCHET</b> solution should be applied before cut surfaces dry out. Cuts should be as horizontal as possible. The <b>HATCHET</b> solution should be applied using low pressure applicators, a dosing gun or as a last resort, a knapsack sprayer. Avoid using high pressure applicators. Solution may also be poured on. All applications should be made at the rate of 10 ml solution per 100 mm cut stem diameter.</p> <p>Be sure to understand and comply with the <b>USE RESTRICTIONS</b> and <b>General Information provided</b> above.</p>
Gum spp.	<i>Eucalyptus grandis</i>	500 ml (5%)	
	<i>Eucalyptus macarthurii</i>	750 ml (7,5%)	
	<i>Eucalyptus maculata</i> and <i>Eucalyptus paniculata</i>	1 250 ml (12,5%)	
Bug weed	<i>Solanum mauritianum</i>	200 ml (2%)	
Castor oil plant	<i>Ricinus communis</i>	300 ml (3%)	
Grey poplar	<i>Populus canescens</i>	500 ml (5%)	
Guava	<i>Psidium guajava</i>	1250 ml (12,5%)	
Ink berry	<i>Cestrum laevigatum</i>	200 ml (2%)	
Jacaranda	<i>Jacaranda mimosifolia</i>	1000 ml (10%)	
Lantana	<i>Lantana camara</i>	200 ml (2%)	
Oleander	<i>Nerium oleander</i>	1000 ml (10%)	
Ouhout	<i>Leucosidea sericea</i>	300 ml (3%)	
Privet	<i>Ligustrum</i> spp.	500 ml (5%)	
Sesbania	<i>Sesbania punicea</i>	200 ml (2%)	
Syringa	<i>Melia azedarach</i>	300 ml (3%)	
Triffid weed	<i>Chromolaena odorata</i>	200 ml (2%)	
Turpentine tree	<i>Syncarpia</i> spp.	750 ml (7,5%)	

**B. GENERAL PLANT CONTROL: FOLIAR APPLICATION TO INVADER PLANTS IN GRAZING, INDUSTRIAL AND CONSERVATION AREAS**

COMMON NAME	BOTANICAL NAME	HATCHET DOSE / 10ℓ WATER	DIRECTIONS FOR APPLICATION (In all cases apply as a full cover spray to the point of run-off)
Gum spp.	<i>Eucalyptus grandis</i>	125 ml (1,25%)	Coppice should be 0.5 to 1.0 m tall at application.
Bracken fern	<i>Pteridium aquilinum</i>	63 ml (0,63%)	Only spray application onto actively growing plants.
Bug weed	<i>Solanum mauritianum</i>	63 ml (0,63%)	Spray onto coppice, which should be 0.5 to 1.0 m high at treatment.
Common bulrush	<i>Typha capensis</i>	63 ml (0,63%)	Spray onto plants before they commence flowering. <b>Do not apply over water systems which will be used for irrigation purposes.</b>
Common reeds	<i>Phragmites australis</i>	63 ml (0,63%)	
Katbos	<i>Protasparagus</i> spp.	63 ml (0,63%)	Apply to actively growing plants.
Lantana	<i>Lantana camara</i>	200 ml (2%)	Spray onto coppice, which should be 0.5 to 1.0 m high at treatment
Oleander	<i>Nerium oleander</i>	200 ml (2%)	Spray onto coppice, which should be 0.5 to 1.0 m high at treatment.
Setaria	<i>Setaria megaphylla</i>	63 ml (0,63%)	Apply to actively growing plants.

**C. FORESTRY: *EUCALYPTUS* CLEAR FELL.**

GUM SPECIES	HATCHET DOSE / 10ℓ WATER	DIRECTIONS FOR APPLICATION
<i>Eucalyptus grandis</i>	500 ml (5%)	<p><b>Regrowth from these species can best be controlled by cut stump treatments with HATCHET</b></p> <p>Stems of trees should be cut as close to the ground as possible and <b>HATCHET</b> solution should be applied before cut surfaces dry out. The <b>HATCHET</b> solution should be applied using low pressure applicators, a dosing gun or as a last resort, a knapsack sprayer. Avoid using high pressure applicators. Solution may also be poured on at the recommended rate. All applications should be made at the rate of 10 ml solution per 100 mm cut stem diameter.</p> <p>Be sure to understand and comply with the <b>USE RESTRICTIONS</b> and <b>General Information</b> provided above.</p>
<i>Eucalyptus macarthurii</i>	750 ml (7,5%)	
<i>Eucalyptus maculata</i>	1 250 ml (12,5%)	
<i>Eucalyptus paniculata</i>		