

READ THE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. SHAKE THE BOTTLE WELL BEFORE USE

**RESTRICTED USE AGRICULTURAL REMEDY**

THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL.

**Herbicide**



# ASSEMBLY 160 ME

Reg. No. L 10593 Act No. 36 of 1947  
N-AR 2042 / W 1301227

5: 15/01/2025 – Jan2025

A systemic micro-emulsion herbicide for control of woody plants, as listed, in grazing and conservation areas as well as areas that are not used for crop production.

**GROUP 4 HERBICIDE**

## ACTIVE INGREDIENTS

picloram (pyridine carboxylic acid) as tri-isopropanolamine salt 80 g/l  
fluroxypyr (pyridine compound) as methyl heptyl ester 80 g/l



### Hazard Statements:

Flammable liquid and vapour.  
Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye damage.  
Fatal if inhaled.  
Suspected of causing cancer by inhalation.  
Toxic to aquatic life.  
Toxic to aquatic life with long-lasting effects.

### Precautionary Statements:

Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

**DANGER**



**villa**

UN Number: 1992

Registration holder: VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07

65 Botes Road, Glen Marais, Kempton Park, 1619

Tel. (011) 396 2233

Website: [www.villacrop.co.za](http://www.villacrop.co.za)

### IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:

Griffon Poison Information Centre (National) : +27 82 446 8946

Poison Information Helpline (National): +27 861 555 777

24 Hr Transport / Spill emergency no: (Hazzcall24) +27 86 044 4411

(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:      Expiry Date:

Date of Manufacture:

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

**ASSEMBLY 160 ME**

Reg. No. L 10593 / N-AR 2042 / W 1301227 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: 4

**ACTIVE INGREDIENTS:**

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fluroxypyr (pyridineCompound) as methyl heptyl ester..... 80 g/l

Registration holder:

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**WARNINGS****Hazard statements:**

Flammable liquid and vapour.
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Causes skin irritation.
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Fatal if inhaled.
Suspected of causing cancer by inhalation.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

- **Grazing restrictions:**

- Animals intended for meat that are grazing up to two weeks after treatment should be removed from treated area three days prior to slaughter.
- Do not graze lactating dairy animals on the treated area within two weeks after treatment.

- **Grazing poisonous plants:**

- Herbicide application may increase palatability of certain poisonous plants. Do not graze treated areas until poisonous plants are dry and no longer palatable to livestock.

- Handle with care.
- Store in a cool, dry place under lock and key, away from food, feed, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, animals and uninformed persons.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **In case of poisoning, call a physician and make this label available to him/her.**

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 weeds to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further 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 in the event of any uncertainty.

**PRECAUTIONS****Precautionary statement:**

Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Do not breathe dust, fume, gas, mist, vapours, or spray.
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.

Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
In case of inadequate ventilation wear respiratory protection.
IF SWALLOWED: Get emergency medical help immediately.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical attention.
IF IN EYES: Immediately call a POISON CENTRE.
Get emergency medical help immediately.
Specific treatment is urgent (see... on this label)
Do NOT induce vomiting.
If skin irritation occurs get medical advice.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to suitable landfill in accordance with local regulations.

- Avoid contact with skin and eyes and do not inhale spray mist.
- Do not contaminate eating utensils, food, feeds, feeds, drinking water or any other water sources.
- In case of accidental skin contact, immediately wash thoroughly with non-abrasive soap and water. Contaminated clothing should be removed and washed before being used again.
- Do not use contaminated plants, grass, etc. as compost.
- Excretion of animals grazing in the treated area should not be used as fertilizer.
- Clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three (3) times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Prevent contamination of food, feeds, drinking water and eating utensils.

### **FIRST AID TREATMENT**

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Seek medical attention immediately.**

**Skin:** Remove contaminated clothing and shoes. Gently wipe of excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap for 15 – 20 minutes. If irritation persists, obtain medical attention.

**Eyes:** Immediately flush eyes with clean water for at least 15-20 minutes. Lift eyelid (s) to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

**Ingestion:** **Seek medical attention immediately.** Do NOT induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give any liquid to the person. If vomiting occurs naturally, prevent aspiration.

**Advice to physician:** There is no specific antidote available. Treat symptomatically and supportively.

<b><u>Relevant hazardous components</u></b>	
<b>Picloram</b>	8 %
<b>Fluroxypyr</b>	8 %
Sodium dodecylbenzene sulfonate	< 30 %
Napthalene	< 2.5 %
Solvent Naptha	< 15 %

**NOTE:** The ingredients listed above contribute to the overall GHS classification, the remaining ingredients do not have to be listed according to the South African Regulations for Hazardous Chemical Agents 2021, Regulation 14(b).

**In case of poisoning, call the following number:** +27 82 446 8946 (Griffon Poison Information Centre) or +27 861 555 777 (Poison Information Helpline).

**In case of a chemical spill call the following 24 Hr Transport / Spill emergency number:** +27 86 044 4411 (Hazcall24 / Client: Villa Crop Protection).

### **RESISTANCE WARNING**

**ASSEMBLY 160 ME** is a group code 4 herbicide. Any weed population may contain individuals naturally resistant to **ASSEMBLY 160 ME** and other group code 4 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **ASSEMBLY 160 ME** or any other group code 4 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 or consult the website of the Herbicide Resistance Action Committee (<https://hracglobal.com/>). If resistance is suspected, please consult your local company representative or agricultural advisor.

### **Mode of action:**

**ASSEMBLY 160 ME** is a selective, systemic herbicide, absorbed by roots and leaves, translocated both acropetally and basipetally in the phloem and xylem, accumulating in new growth. **ASSEMBLY 160 ME** contains two active ingredients, **pictoram** and **fluoropyr** that act as synthetic plant growth hormones causing uncontrolled growth. The biomolecular target site is unknown.

### **USE RESTRICTIONS**

**IN ORDER TO PREVENT IMMEDIATE OR FUTURE INJURY TO PLANTS OR CROPS IN NEARBY AREAS, IT IS IMPERATIVE TO APPLY THE PRODUCT STRICTLY IN ACCORDANCE WITH THE USE RESTRICTIONS AND APPLICATION DIRECTIONS LISTED BELOW:**

- It is a violation of Government Notice R. 1716 of 26 July 1991 and R. 181 of 7 February 2003 issued in terms of the Fertilizers, Farm Feeds, Agriculture Remedies and Stock Remedies Act 36, 1947 (Act 36 of 1947), to use this product in any way not instructed with its labelling.
- **Prevent drift of spray mist** coming into contact with sensitive non target broadleaf crops (such as, but not limited to, lucerne and other legume fodder crops, various bean type crops, cucurbit crops, potatoes, sunflower, tobacco, tomatoes, cotton, fruit trees, grape vines, ornamentals), or soil containing roots of these plants, soil in which such plants are to be grown, grain crops in a susceptible stage of growth or grazing or any other area not under treatment.
- **Do not contaminate water intended for irrigation or domestic purposes.** To avoid injury to crops or other non-target plants, do not spray directly over, or allow spray drift, or spray run-off to reach banks or bottoms of irrigation ditches, canals, streams, dams, rivers (whether dry or containing water) that may be used for irrigation or domestic purposes or may transport water to an irrigation facility.
- Do not apply when conditions present a risk of off-site movement from treated area.
- Do not use on flood irrigated land or fields.
- Do not apply to areas that are to be rotated with any broadleaf crop or ornamental plants.
- **Do not use manure** from animals grazing treated areas, **or grass or sprayed plants** as compost for growing broadleaf crops, ornamentals, orchards or other susceptible crops. Such manure may contain enough herbicide residues to cause injury to susceptible plants.
- **Do not transfer livestock** from treated grazing areas (or after feeding livestock treated grass) onto sensitive broadleaf crop areas without first allowing 7 days of grazing on an untreated grass pasture. Otherwise, urine and manure may contain enough herbicide to cause injury to sensitive broadleaf plants.
- **Do not move treated soil** to areas other than sites for which **ASSEMBLY 160 ME** is registered for use.
- **Do not apply to land NEAR to desirable broadleaf plants**, or land onto which such plants are to be grown or where grain varieties are in a susceptible stage of growth. **ASSEMBLY 160 ME** may, however, be applied in such circumstances **provided that sufficient precautionary measures are taken to avoid any type of contamination of such an area.**

**RESTRICTED USES: (Use only as directed)**

This product is restricted due to acute toxicity. This remedy may only be sold to and used by a registered pest control operator, or by someone under the supervision of a registered pest control operator, and only for those uses covered by the pest control operator's scope of registration, and only as directed on this label.

**NOTICE TO USER:**

Read the entire label before application. This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under the Act to use this agricultural remedy for any purpose in a manner contrary with the directions on the label.

**General information:**

- It takes a long period for target plants to die off completely (certain woody species may take several months to die-off completely). Depending on conditions and type of target species, some plants may re-grow which will require follow-up treatments.

**Compatibility:**

- When **ASSEMBLY 160 ME** is used in conjunction with any other agricultural remedy, all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.
- ASSEMBLY 160 ME** is compatible with **Summit Super**.

**Mixing instructions:**

- Mix **ASSEMBLY 160 ME** with water and add **Summit Super** according to instructions for the different target species. Once the spray mixture has been well mixed, maintain agitation throughout application.
- Do not prepare more mixture than will be used immediately.

**Time of application:**

- Apply only on actively growing plants with full foliar cover, that is, after leaves have fully developed.
- Apply when soil moisture is most favourable for plant growth.
- Do not apply to plants suffering from stress conditions such as drought, frost, water flooding, etc.

**APPLICATION INSTRUCTIONS**

**Important:** Refer to **USE RESTRICTIONS** above.

**1) Foliar application (only on actively, vigorously growing plants with full leaf cover):**

- Apply as a full cover spray to foliage and stems (but prevent run-off onto the soil).
- Allow foliage wet from rain or dew etc. to dry off before application.
- Prevent spray drift onto non-target plants by avoiding fine droplet size. Apply with a knapsack sprayer with a solid cone nozzle (e.g. Spraying systems TG-1 or equivalent type) that will ensure an even coverage of the target area. Maintain a constant pressure of between 2.0 to 2.5 Bar. Spray from a distance of approximately 50 cm from the target to obtain best coverage.
- Do not apply if rain is expected within three (3) hours. Rain three (3) hours after application will not affect efficacy once the spray has dried on the target plants.

**2) Cut stump application:**

- Apply immediately after felling. If not immediately possible, application must definitely be done within three (3) hours after felling.
- Do not apply **ASSEMBLY 160 ME** if the stump surface is wet from rain or dew.
- Apply as a coarse spray at low pressure ( $\pm 1.0$  bar) using solid cone nozzle tips (e.g. Spraying Systems TG-1 or equivalent type).
- Apply within 20 cm above target in wind conditions below 15 km per hour wind speed.
- Apply according to directions in the table below.

**Important note - regrowth:**

If regrowth occurs from the crown even in the case where top-kill is obtained, apply a foliar treatment with a registered herbicide registered against the relevant species.

**APPLICATION RATES****IMPORTANT:**

- For all application methods - add the adjuvant Summit Super at a rate of 500 (or 50) ml per 100 (or 10) litres spray mixture respectively (0.5 % mixture).
- Refer to “DIRECTIONS FOR USE” above.

**A. FOLIAR APPLICATION**

Target species	Dosage rate per 100 l water	Remarks
Black wattle) ( <i>Acacia mearnsii</i> )	125 ml (0.125 % mixture)	<p><b>Refer to “DIRECTIONS FOR USE” above.</b></p> <p>Apply until the point of run-off to actively growing plants.</p> <p>Plants that are too high for a good cover spray should be slashed and the regrowth sprayed once a height of 0.5 m is reached.</p> <p>In the event of any regrowth after application, a follow-up application should be made.</p>
Port Jackson) ( <i>Acacia saligna</i> )	500 ml (0.5 % mixture)	
Madeira vine ( <i>Anredera baselloides</i> )	500 ml (0.5 % mixture)	
Shrubby milkbush ( <i>Asclepias fruticosa</i> )	750 ml (0.75 % mixture)	
Pom pom weed ( <i>Campuloclinium macrocephalum</i> )	375 ml (0.37 % mixture)	
Triffid weed ( <i>Chromolaena odorata</i> )	750 ml (0.75 % mixture)	
Lantana ( <i>Lantana camara</i> )	1.5 l (1.5 % mixture)	
Guava ( <i>Psidium guajava</i> )	1,5 ml (1.5 % mixture)	
Bugweed ( <i>Solanum mauritianum</i> )	250 ml (0.25 % mixture)	

**B. CUT STUMP APPLICATION**

Target species	Dosage rate per 100 l water	Remarks
Black wattle) ( <i>Acacia mearnsii</i> )	2.0 l (2.0 % mixture)	<p><b>Refer to “DIRECTIONS FOR USE” above.</b></p> <p>Apply to low cut stumps (10 to 20 cm high) which preferably have a single cut surface.</p> <p>Apply to complete cut surface and rootcrown of stumps with a diameter of less than 10 cm. Where multiple stumps are present, all cut surfaces must be treated.</p> <p>For bigger stumps, apply to the cambial region (sapwood) of the cut surface and rootcrown.</p> <p>In all cases, apply until the point of run-off.</p> <p>In the event of some regrowth and depending on the species, a follow-up spray with <b>ASSEMBLY 160 ME</b> as a coppice application may be required.</p>
Black wood ( <i>Acacia melanoxylon</i> )	2.0 l (2.0 % mixture)	
Port Jackson) ( <i>Acacia saligna</i> )	2.0 l (2.0 % mixture)	
Triffid weed ( <i>Chromolaena odorata</i> )	750 ml (0.75 % mixture)	
Saligna gum ( <i>Eucalyptus grandis</i> )	3.0 l (3.0 % mixture)	
Black Ironbark ( <i>Eucalyptus sideroxylon</i> )	4.5 l (4.5 % mixture)	
Sugar gum ( <i>Eucalyptus cladocalyx</i> )	4.5 l (4.5 % mixture)	
Syringa ( <i>Melia azedarch</i> )	1.5 l (1.5 % mixture)	
Castor oil ( <i>Ricinus communis</i> )	1.0 l (1.0 % mixture)	

**NOTE**

**ASSEMBLY 160 ME** controls woody tree and shrub species. Other species that were not present during development trials of this product might also be controlled. However, the registration holder does not accept responsibility for the presence or absence of control of unlisted tree and shrub species, or if the product was applied by means of, application other than those instructed in this label.

The following product mentioned in this label may be replaced with an equivalent product:

- **SUMMIT SUPER** (L 8539) = **BENEFIT PLUS** (L 8538).

**SUMMIT SUPER** and **BENEFIT PLUS** are registered products of  
**VILLA CROP PROTECTION (PTY) LTD.**