

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



Herbicide

SOLSTAR 200 EC

Reg. No. L 7968 Act No. 36 of 1947

2. 31/05/2023 – May2025

An emulsifiable concentrate selective herbicide for control of woody weeds as listed as well as for the control of volunteer potatoes in maize and wheat.

ACTIVE INGREDIENT

fluroxypyr meptyl (pyridine acid) 200 g/l

GROUP

4

HERBICIDE



Hazard Statements:

May be fatal if swallowed and enters airways.
May be harmful in contact with skin.
Causes mild skin irritation.
Causes serious eye damage.
Toxic if inhaled.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid breathing fumes, mists, vapours or spray.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
Avoid release to the environment.

DANGER



villa

UN Number: 2902

Registration holder: Meridian Agrochemical Company (Pty) Ltd.
Co. Reg. No. 2000/010819/07
65 Botes Road, Glen Marais, Kempton Park, 1619
Tel. (011) 396 2233
Website: 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: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED
Batch Number: _____
Expiry/Date: _____
Date of Manufacture: _____

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HRAC HERBICIDE GROUP CODE: 4

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WARNINGS**Hazard statements:**

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Very toxic to aquatic life with long lasting effects.

- WITHHOLDING PERIOD – Allow 30 days between last application and grazing of treated areas.
- Handle with care.
- Store under lock and key in a cool place.
- Store away from food, feed, fertilizer and other agricultural products.
- Keep out of reach of children, uninformed persons and animals.
- 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 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 statements:**

Avoid breathing fumes, mists, vapours or spray.
Wash hands thoroughly after handling. Do not touch eyes.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Get emergency medical help immediately.
IF ON SKIN: Get medical help.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
Do NOT induce vomiting.
If skin irritation occurs: get medical help.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of content/container in accordance with local regulations.

- Wash contaminated clothes daily after use.
- Do not eat, drink or smoke while applying, mixing or before washing hands and face or change of clothing.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- **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). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Destroy the empty container and do not use for any other purpose.

Relevant hazardous components	
Fluroxypyr-meptyl	29.4%
Phenylsulphonate Salt	<5%
Ethoxylated Fatty Alcohol	<5%
Aromatic solvent	<70%

FIRST AID TREATMENT

- Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure.
- **Skin contact:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **SOLSTAR 200 EC** causes mild skin irritation. **Obtain medical attention if irritation persists.**
- **Eye contact:** Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. **Seek medical advice immediately.**
- **Ingestion:** Have victim rinse mouth thoroughly with water. **Do not induce vomiting, due to the aromatic solvent. Seek medical advice immediately.** If the person is alert and respiration is not depressed, give large quantity of water to drink. Never give anything by mouth to an unconscious person. Establish and maintain airway. Treat respiratory difficulty with artificial respiration and oxygen. Qualified medical personnel should perform administration of oxygen.

NOTE TO PHYSICIAN

Keep patient prone and quiet. Start artificial respiration immediately, if patient is not breathing. Treat symptomatically and supportively. No specific antidote known.

RESISTANCE WARNING

For resistance management, **SOLSTAR 200 EC** is a group code 4 herbicide. Any weed population may contain individuals naturally resistant to **SOLSTAR 200 EC** 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 **SOLSTAR 200 EC** 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 registered 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.

The presence of resistant weeds is difficult to detect prior to use and therefore neither the Registration Holder nor the Distributor can accept responsibility for any losses as a result of **SOLSTAR 200 EC** not controlling resistant weeds. Do not apply **SOLSTAR 200 EC** alone in situations where weed resistance has been confirmed. Sub-standard application of **SOLSTAR 200 EC** or other pyridyloxy herbicides will lead to inferior weed control and may assist in development of herbicide resistance.

MODE OF ACTION

SOLSTAR 200 EC contains **Fluroxypyr-meptyl**, which is a pyridyloxy-carboxylic acid compound and belongs to HRAC mode of action group O. It is a selective and systematic herbicide that is primarily absorbed by the foliage. It is translocated acropetally and basipetally in the phloem and xylem to other plant parts. It induces characteristic auxin-type responses.

USE RESTRICTIONS

- Do not apply **SOLSTAR 200 EC** to any situation not mentioned in this instruction leaflet.
- Only apply **SOLSTAR 200 EC** using an accurate and safe application technique.
- Do not allow spray drift to contact susceptible broadleaf crops such as sunflower and potatoes.
- Avoid spraying directly onto foliage of *Pinus spp.*
- Do not spray directly into funnels of maize plants.
- It takes time for target plants to die completely. Some woody plants may take 4 + months to die completely. Active plant growth will stop almost immediately following correct application.
- Target plants must be actively growing irrespective of the method of application.
- Do not apply **SOLSTAR 200 EC** to seed maize, sweetcorn or popcorn. Should there be any doubt as to the safety of the treatment to specific varieties, please consult your nearest representative.

DIRECTIONS FOR USE

Use only as directed.

MIXING INSTRUCTIONS

Half-fill the spray tank with suitable water. If necessary, the pH of the spray water can be corrected to pH 5 – 7 with a suitable buffering agent. Then add the required amount of **SOLSTAR 200 EC** to the water in the tank while agitating. Fill the spray tank to the desired volume with water. Just before the tank is full, add the mineral oil adjuvant according to the recommended rate on the respective product's label. Agitate well to ensure mixing prior to the application of the mixture. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

COMPATIBILITY

The compatibility of **SOLSTAR 200 EC** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application. Knapsack sprayers, tractor mounted boom sprayers or similar suitable applicators which are fitted with solid cone nozzles and can distribute the spray mixture evenly over the target may be used. A spray volume of 300-500 l/ha should be used to ensure thorough coverage of target plants. Use nozzles such TG1 or equivalent to ensure good coverage. **Constant agitation throughout the spray operation is essential.** Only clean water should be used. Do not, under any circumstances allow spray or drift to contact any part of desirable vegetation otherwise severe injury or destruction may result.

Foliar application:

- Apply to actively growing plants with full leaf cover.
- Do not spray whilst weeds are wet, dormant, under stress or covered in a layer of dust or silt or when damaged by frost.
- Rain on sprayed plants may result in reduced efficacy if occurring within 1 hour of application or before spray deposit has dried.

- Apply as full cover spray (to point of run-off) at approximately 2 bar pressure, using TG1, Delavan CE1 or equivalent nozzle. Always thoroughly wet all leaves and stems.

Cut stump application:

- Apply within 12 hours of cutting.
- **SOLSTAR 200 EC** in diesel should not be applied to cut stump surfaces which are wet with dew or rain.
- Apply with solid cone nozzle at no more than 1 bar pressure.
- Apply to the cambium region of the cut surface as well as to the stem sides and exposed root surfaces.

Basal bark application:

- **SOLSTAR 200 EC** in diesel should not be applied to stems which are wet with dew or rain.
- Apply by means of a paintbrush or low pressure coarse spray to the stem surfaces as well as exposed root surfaces. Apply sufficient quantity of mixture to thoroughly wet all surfaces, bearing in mind that old bark and rough surfaces may require more mixture to ensure adequate penetration. Apply from ground level up all sides of the stem to the height indicated for the particular species as indicated below. In the case of multi-stemmed plants, all stems must be treated individually. Trees with a bigger stem diameter as 100 mm will not be controlled completely.

RECOMMENDATIONS

Foliar applications:

SPECIES	DOSAGE RATE/100 ℓ WATER	REMARKS
Black wattle (<i>Acacia mearnsii</i>)	125 ml + 500 ml mineral oil	Young plants up to 1.0 m high should be treated with a full cover spray in sufficient mixture to ensure thorough wetting of leaves and stems.
Blackwood (<i>Acacia melanoxylon</i>)	125 ml + 500 ml mineral oil	Young plants up to 1.0 m high should be treated with a full cover spray in sufficient mixture to ensure thorough wetting of leaves and stems.
Bugweed (<i>Solanum mauritianum</i>)	125 ml + 500 ml mineral oil	Apply a full cover spray to actively growing seedlings up to 1.0 m high and apply sufficient mixture to ensure thorough wetting of leaves and stems. Established plants should be slashed and the regrowth treated at approximately 50 cm height with sufficient mixture to ensure thorough wetting.
Satans bush (<i>Solanum elaeagnifolium</i>)	250 ml + 500 ml mineral oil OR 500 ml/ha + 1 ℓ mineral oil Follow on spot spray 125 ml + 500 ml mineral oil / 100 ℓ water	Apply to young actively growing plants in the spring or early summer seasons. Apply in at least 200 ℓ water / ha and make sure that all leaves and stems are thoroughly wetted to just before the point of run-off. Since <i>Solanum elaeagnifolium</i> has a very deep root system, it may have re-growth from its root stocks. It is recommended that this is treated with a spot spray. Apply this re-spray to actively growing plants and make sure that all leaves and stems are thoroughly wetted to just before the point of run-off.

Basal stem application:

SPECIES	DOSAGE RATE/100 ℓ DIESEL	REMARKS
Bugweed (<i>Solanum mauritianum</i>)	1.0 ℓ (1.0 % mixture)	Thoroughly wet stems up to 25 cm above the root collar as well as root crown and all other exposed roots. Only treat plants which are actively growing and which have a stem diameter of less than 10 cm.

CONTROL OF VOLUNTEER POTATOES

CROP	DOSAGE ℓ /ha	REMARKS
Maize and Wheat (<i>Volunteer potatoes</i>)	1.0 ℓ/ha	<p>Begin application as soon as most of the potatoes have emerged and have reached the 6 leaf stage. Use the lower dosage for potatoes that are in the 6-8 leaf stage and the higher dosage for potatoes from the 8leaf stage up to flowering. Ensure that all of the leaves and stems of the potatoes are thoroughly wetted.</p> <p>In the case of spraying volunteer potatoes in maize, the maize should be at least 0.5 m in height at the time of application. Do not apply SOLSTAR 200 EC in the funnels of the maize plants or spray over the maize plants. Use a directed spray in order to ensure that no shading off of the spray mixture on the potatoes occurs. It takes around 12-15 days for the first symptoms of control to be noticed.</p> <p>Do not use any adjuvant based on mineral oil. Only potatoes that are present at application will be controlled. Any potatoes that germinate after application will not be controlled.</p> <p>Do not use SOLSTAR 200 EC on sweet corn or pop corn. Wheat should preferably be in the 2leaf stage up until the stem elongation stage upon application.</p>

The registration holder is not responsible for weeds not listed.