



Dow AgroSciences

STARANE™ 200 EC



HERBICIDE

REG. NO. L4918, ACT NO. 36 of 1947 / REG. NR. L4918, WET NR. 36 van 1947

<p>A SYSTEMIC EMULSIFIABLE CONCENTRATE HERBICIDE FOR THE CONTROL OF VOLUNTEER POTATOES AND WOODY PLANTS AS LISTED FOR FORESTRY, GRASS PASTURES, CONSERVATION AND INDUSTRIAL AREAS.</p>	<p>'N SISTEMIESE EMULGEERBARE KONSENTRAAT ONKRUIDDODER VIR DIE BEHEER VAN OPSLAGAARTAPPELS EN HOUTAGTIGE PLANTE SOOS AANGETOON IN BOSBOU, GRASWEIDINGS, BEWARINGS- EN NYWERHEIDSGBIEDE.</p>
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HERBICIDE GROUP CODE	O	ONKRUIDDODER GROEPKODE
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Active Ingredient / Aktiewe Bestanddeel

Fluroxypyr (Pyridyloxy Compound) 200 g/λ Fluroksipir (Piridiloksieverbinding)

Net Volume λ **Netto Volume**

REGISTRATION HOLDER / REGISTRASIEHOUER
DOW AGROSCIENCES SOUTHERN AFRICA (PTY) LTD / (EDMS) BPK
REG NO 1967/007147/07
PRIVATE BAG X 160 PRIVAATSAK
BRYANSTON 2021
SOUTH AFRICA

* Trademark of/Handelsmerk van Dow AgroSciences (Pty) Ltd/(Edms) Bpk

Batch Number Lotnommer

Date of Manufacture Vervaardigingsdatum

UN NUMBER: 1993

Tygerberg Poison Information Centre: (021) 931-6129
Griffon Poison Information Centre: +27(0)82-446-8946
24 Hour Emergency Tel No: (032) 533-0716/082-887-8079
Information Hotline Tel No: (012) 361-8112

STARANE* 200 EC/2004-11-17



**CAUTION
VERSIGTIG**



WARNINGS

- Allow 3 days between last application and grazing of treated areas.
- Allow 4 months between last application and the planting of a broadleaf crop
- Handle with care.
- Poisonous by swallowing.
- Concentrate may cause irritation to eyes and skin.
- Store in a cool place.
- **INFLAMMABLE.** Do not store near open flame.
- Store away from food, feed, seed, other agricultural chemicals and out of reach of children, uninformed persons and animals.

RE-ENTRY: Do not enter treated field 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 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 use 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

- Wear protective gloves and face protection when handling the concentrate.
- Do not breathe fumes or spray mist.
- Wash contaminated clothing daily.
- Wash with soap and water after accidental skin contact.
- Avoid eye contact. In case of eye contact, flush eyes with clean water.
- Do not eat, drink or smoke whilst applying, mixing or before washing hands and face and change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the spray applicator with a 1 % solution of household ammonia before using with other products. Allow the solution to stand in the spray tank for several hours but preferably overnight. Rinse at least twice with clean water. This applicator should not be used for applying products other than herbicides. Dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- 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 contents of the spray tank before destroying the container by perforation and flattening and NEVER use for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

For resistance management, **STARANE 200 EC** is a Herbicide Group Code O. Any weed population may contain individuals naturally resistant to this 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 **STARANE 200 EC** or any other Group O herbicides. To delay resistance:-

- Avoid repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide codes.
- Integrate control measures (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

COMPATIBILITY

STARANE 200 EC is compatible with ACTIPRON SUPER**(L 5506).

MIXING

Half fill the spray tank with water and add the required volume of **STARANE 200 EC**. While filling the spray tank add surfactant (where indicated) at the rate indicated below while maintaining constant agitation.

APPLICATION

A. FOLIAR APPLICATION

Use only on actively growing plants with full leaf cover.

- ◆ Apply as a full cover spray to leaves and stems.
- ◆ Rain after application will have no effect on efficacy provided the spray has dried on the target plants.
- ◆ Do not apply to wet foliage.
- ◆ Avoid spray drift onto non-target plants.
- ◆ Use a knapsack sprayer with a solid cone nozzle (eg. Spraying Systems TG-1, Delevan CE 1 or equivalent type) that will ensure an even coverage of the target area. Maintain a constant pressure of between 200 - 300 kPa.
- ◆ For application against volunteer potatoes in maize, a sprayboom equipped with drop arms should be used while in wheat and Eragrostis a conventional sprayboom may be used. Flat fan nozzles (eg Spraying Systems 110-04) should be used. Ensure sufficient spray mixture is applied to obtain thorough coverage of the potato plants. (Refer to the REMARKS column in the tables below).

B. BASAL BARK TREATMENT

For plants with stem diameter up to 10 cm:

- ◆ **STARANE 200 EC** in diesel should not be applied to stems if surface is wet from rain or dew.
- ◆ Apply by paintbrush or knapsack as a coarse, low-pressure spray using narrow angle solid cone nozzle. Apply all around the basal stem or trunk of the woody plant, from soil level to a height indicated, as well as any exposed roots. In order to obtain satisfactory results, thorough wetting of the indicated area is imperative. Old or rough bark may require more mixture than young or smooth bark. In the case of multi-stemmed plants, each stem should be treated separately.

RATES AND METHODS

FOLIAR APPLICATIONS:

PLANT	STARANE* 200 EC / 100 LITRES	REMARKS
<p><i>Acacia mearnsii</i> (Black wattle)</p> <p><i>Acacia melanoxylon</i> (Blackwood)</p>	125 mλ (in water)	<p>FOLIAR:</p> <p>On young actively growing plants up to 1,0 metre in height, use sufficient spray mix volume to ensure a full and even coverage of leaves and stems.</p> <p>NOTE: ACTIPRON SUPER (L5506) should be added at a rate of 500 mλ/100 litres spray mix.</p>
<p><i>Solanum mauritianum</i> (Bugweed)</p>	125 mλ (in water)	<p>FOLIAR:</p> <p>On young actively growing plants up to 1,0 metre in height, use sufficient spray mix volume to ensure a full and even coverage of leaves and stems.</p> <p>Plants higher than 1,0 metre should be slashed and regrowth sprayed when not less than 0,5 metre high.</p> <p>NOTE: ACTIPRON SUPER (L5506) should be added at a rate of 500 mλ/100 litres spray mix.</p>
	1,0 λ (in diesel)	<p>BASAL STEM:</p> <p>Ensure wetting of all bark of root crown and stem up to a height of 0,25 metre.</p>

PLANT	STARANE* 200 EC	REMARKS
<p><i>Solanum tuberosum</i> (Volunteer potatoes in Maize, Wheat or Eragrostis)</p>	<p>1,25 λ/hectare (in water)</p>	<p>FOLIAR: Do not use an adjuvant based on a mineral oil. Begin application as soon as most potatoes have emerged and are in the 6-leaf stage until pre-flowering. Use 300 λ spray mixture/hectare to ensure that all leaves and stems of the potatoes are thoroughly wetted. Only potatoes present at application will be controlled. Level of control will vary according to potato vigour, cultivar and crop competition. Potatoes germinating after application will not be controlled.</p> <p>In case of spraying volunteer potatoes in :-</p> <ul style="list-style-type: none"> • Maize - plants must be at least 50 cm 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 and ensure that no maize leaves shield the spray mixture reaching the potatoes. It takes approximately 2 weeks before the first symptoms are observed. Not for use in sweetcorn or pop corn. • Wheat should be from the 3-leaf to before flag leaf emergence stage (Zadoks 13 – 33) when application is made. • <i>Eragrostis</i> should be between the 3 leaf stage and pre-flowering when application is made.

N.B. For assistance in the calibration for spot treatments, please contact your local technical representative.

ACTIPRON** SUPER (Mineral Oil) (L5506, Act No. 36 of 1947), is the trademark of H&R GSP (Pty) Ltd.

**24 HOUR EMERGENCY TEL. NO. (032) 533-0716/082-887-8079
INFORMATION HOTLINE : TEL. NO.: (012) 361-8112**

WAARSKUWINGS

- Laat 3 dae toe tussen laaste toediening en beweiding van behandelde gebiede
- Laat 4 maande toe tussen laaste toediening en die plant van breëblaar gewasse.
- Hanteer versigtig.
- Giftig indien ingesluk word.
- Konsentraat mag irritasie van vel en oë veroorsaak.
- Berg in 'n koel plek.
- Berg weg van voedselware, voer, saad en ander landboumiddels en buite bereik van kinders, oningeligte persone en diere.
- In geval van vergiftiging ontbied 'n geneesheer en toon hierdie etiket aan hom/haar.

HERBETREDING: Moenie behandelde gebied binnegaan nie alvorens spuitreste gedroog het of tensy beskermende klere gedra word.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater; verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die onkruid teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie.

Raadpleeg die verskaffer of registrasiehouer in die geval van enige onsekerheid.

VOORSORGMAATREËLS

- Dra beskermende handskoene en oogbeskerming wanneer die konsentraat hanteer word.
- Moenie dampe of sproeireën inasem nie.
- Was besoedelde klere daaglik.
- Was onmiddellik met seep en water indien per ongeluk met die vel in aanraking kom. Vermy aanraking met die oë. In geval van oogkontak, spoel oë met skoon water.
- Moenie eet, drink of rook tydens vermenging en toediening alvorens hande en gesig gewas en skoon klere aangetrek is nie.
- Verhoed spuitstofwegdrywing na ander gewasse, weidings, riviere, damme of enige gebied wat nie behandel word nie.
- Om beskadiging van gewenste plante te voorkom, moet houers en spuittoerusting wat gebruik is, deeglik skoongemaak word voor toediening van ander middels op sulke plante. Gooi was- en spoelwater uit waar dit nie gewasse, weiding, riviere en damme sal besoedel nie.

- Spoel leë houer driekeer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuitenk voordat die houer vernietig word deur gate daarin te maak en dit plat te druk en moet nie vir enige ander doel gebruik nie.
- Voorkom besoedeling van voedselware, voer, drinkwater en eetgerei.

BESTANDHEIDSWAARSKUWING

Vir weerstandbestuur is **STARANE 200 EC** 'n groepkode O onkruiddoder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen dié of enige ander groepkode O onkruiddoders het. Indien hierdie onkruiddoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **STARANE 200 EC** of enige ander groep kode O onkruiddoder beheer word nie . Om weerstand teen onkruiddoders te vertraag:

- Vermy die herhaaldelike gebruik van onkruiddoders met dieselfde groepkode. Wissel af met of gebruik tenkmengsels van produkte in verskillende onkruiddoder groepkodes.
- Integreer ander beheermaatreëls (chemiese, verbouing en biologies) in onkruiddoder programme.

Vir spesifieke inligting oor weerstandbestuur kontak u plaaslike verspreider.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui

MENGBAARHIED

STARANE 200 EC is mengbaar met ACTIPRON SUPER** (L 5506).

VERMENGING

Vul die spuitenk halfvol met water en voeg die benodigde volume **STARANE* 200 EC** by. Vul die spuitenk dan verder met water en voeg benatter (waar aangedui word) by teen die dosis soos hieronder aangedui, terwyl konstante roering plaasvind.

TOEDIENING

LOOFTOEDIENING

Wend slegs aan wanneer plante volle drag blare het en aktief groei.

- ◆ Dien toe as 'n volledige dekbespuiting op loof en stamme.
- ◆ Na toediening sal reën geen invloed op die effektiwiteit hê nie, indien die spuitstof op die teiken plant droog geword het.
- ◆ Moet nie toegedien word wanneer blare nat is nie.
- ◆ Verhoed spuitstofwegdrywing na gewenste plante.
- ◆ Gebruik 'n rugsakspuit wat toegerus is met soliede keelspuitstukke (bv Spraying Systems TG-1, Delevan CE1 of soortgelyk spuitstukke) wat egalige benatting sal verseker. Handhaaf 'n konstante druk van 200 - 300 kPa.
- ◆ Vir toediening teen opslag aartappels in mielies moet gebruik gemaak word van 'n spuitbalk toegerus met valarms terwyl in koring en Eragrostis kan 'n konvensionele spuitbalk gebruik word. Plat waaier spuitkoppe (bv. Spraying Systems 110-04) moet gebruik word. Dien genoegsame spuitmengsel toe om goeie benatting van die aartappels te verseker. (Verwys na OPMERKINGS in tabelle hieronder).

B. STAMBESPUITING

Vir plante met stamdeursnee tot 10 cm:

- ◆ **STARANE* 200 EC** in diesel moet nie toegedien word op stamme indien hulle nat is weens reën of dou nie.
- ◆ Dien toe met 'n verfkwas of met 'n rugsakspuit met 'n nouhoekige soliede keelspuitstuk as 'n growwe, lae druk bespuiting. Dien toe reg rondom die stamme van houtagtige plante vanaf grondhoogte tot 'n hoogte soos aangedui, asook enige ontblote wortels. Deeglike benatting van die aangeduide area is noodsaaklik vir goeie beheer. Ou of growwe bas mag meer spuitstof benodig as jong of gladde bas. Waar meer as een stam per bos of struik voorkom, moet elke stam afsonderlik behandel word.

TOEDIENINGSHOEVEELHEDE EN METODE VAN TOEDIENING

LOOFTOEDIENING:

PLANTSOORT	STARANE* 200 EC / 100 LITER	OPMERKINGS
<p><i>Acacia mearnsii</i> (Swartwattel)</p> <p><i>Acacia melanoxylon</i> (Swarthout)</p>	125 mλ (in water)	<p>LOOFTOEDIENING:</p> <p>Op jong aktiefgroeiende plante tot en met 1,0 meter hoogte, gebruik genoegsame spuitmengsel om 'n volledige en eweredige dekking van blare en stamme te verseker.</p> <p>LET WEL: ACTIPRON SUPER (L5506) moet te alle tye bygevoeg word teen 500 mλ/100 liter spuitmengsel.</p>
<p><i>Solanum mauritianum</i> (Luisboom)</p>	125 mλ (in water)	<p>LOOFTOEDIENING:</p> <p>Op jong aktiefgroeiende plante tot en met 1,0 meter hoogte, gebruik genoegsame spuitmengsel om 'n volledige en eweredige dekking van blare en stamme te verseker. Plante hoër as 1,0 meter moet eers afgekap word. Hergroei word gespuit wanneer dit nie minder as 0,5 meter hoog is.</p> <p>LET WEL: ACTIPRON SUPER (L5506) moet ten alle tye bygevoeg word teen 500 mλ/100 liter spuitmengsel.</p>
	1,0 λ (in diesel)	<p>STAMBEHANDELING:</p> <p>Verseker benatting van die wortelkroon en stam tot 'n hoogte van 0,25 meter op die stam.</p>

PLANTSOORT	STARANE* 200 EC	OPMERKINGS
<p><i>Solanum tuberosum</i> (Opslag aartappels in Mielies, Koring of Eragrostis)</p>	<p>1,25 λ /hektaar (in water)</p>	<p>LOOFTOEDIENING:</p> <p>Moet nie 'n hulpmiddel gebaseer op 'n minerale olie gebruik nie.</p> <p>Begin met toediening sodra die meeste aartappels opgekom het en ongeveer in die 6- blaarstadium tot net voor blom is. Gebruik 300 λ spuitmengsel/hektaar om te verseker dat alle blare en stingels van die aartappels deeglik benat word. Alleenlik aartappels wat teenwoordig is tydens toediening sal beheer word. (Vlak van beheer sal varieer volgens aartappel groeikrag, kultivar en gewas kompetisie). Aartappels wat na toediening opkom sal nie beheer word nie.</p> <p>In die geval van die bespuiting van opslagaartappels in</p> <ul style="list-style-type: none"> • Mielies – plante moet minstens 50 cm hoog wees tydens toediening. Moet nie direk in die kelke van, of oor mielies toedien nie. Dien as 'n gerigte bespuiting toe om te voorkom dat afskerming van die spuitmengsel op die aartappels plaasvind. Dit neem normaalweg 2 weke voor die eerste simptome op aartappels waargeneem word. <p>Nie vir gebruik in suikermielies of springmielies nie.</p> <ul style="list-style-type: none"> • Koring – dien toe vanaf die 3-blaarstadium tot net voor vlagblaar ontwikkeling (Zadoks 13- 33). • <i>Eragrostis</i> - dien toe vanaf die 3-blaar tot net voor die blom groeistadium toe.

BELANGRIK:

Vir hulp met kalibrasie by kolbehandeling raadpleeg die plaaslike tegniese verteenwoordiger van die verskaffer.

ACTIPRON SUPER (Minerale Olie) (L5506 wet Nr. 36 van 1947), is die handelsmerk van H&R GSP (Pty) Ltd.

24 UUR NOODGEVAL TEL. NO. (032) 533-0716/082-887-8079

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