

PLENUM* 160 ME

REG. NO. L7702 ACT NO. 36 of 1947 / REG. NR. L7702 WET NR. 36 van 1947

A SYSTEMIC MICRO-EMULSION HERBICIDE FOR THE CONTROL OF WOODY PLANTS AND WEEDS AS LISTED FOR FORESTRY, GRASS PASTURES, CONSERVATION AND INDUSTRIAL AREAS.

'N SISTEMIESE MIKRO-EMULSIE ONKRUIDDODER VIR DIE BEHEER VAN HOUTAGTIGE PLANTE EN ONKRUIDE SOOS AANGETOON IN BOSBOU, GRASWEIDINGS, BEWARINGS- EN NYWERHEIDSGEBIEDE.

HERBICIDE GROUP CODE

O

ONKRUIDDODER GROEPKODE

Active Ingredients/ Aktiewe Bestanddele

Picloram (Pyridine Compound)80 g/λ (as tri-isopropanolamine salt)	Pikloram (Piridienverbinding) (as tri-isopropanolamiensout)
Fluroxypyr (Pyridine Compound) 80 g/λ (as methyl heptyl ester)	Fluroksipir (Piridienverbinding) (as metiel-heptielester)

NET VOLUME

NETTO VOLUME

REGISTRATION HOLDER / REGISTRASIEHOUER

DOW AGROSCIENCES SOUTHERN AFRICA (PTY) LTD / (EDMS) BPK
 REG NO 1967/007147/07
 PRIVATE BAG X160 PRIVAATSAK
 BRYANSTON 2021

*Trademark of/ Handelsmerk van Dow AgroSciences

BATCH NO.

DATE OF MANUFACTURE.....



UN NO: 3082

..... LOT NO.

VAN VERVAARDIGING

24 Hour Emergency Tel No: (032) 533-0716
 Information Hotline Tel No: (012) 361-8112

PLENUM* 160 ME/2006-10-12



**CAUTION
VERSIGTIG**



WARNINGS

Poisonous by swallowing.

Concentrate may cause severe irritation to eyes.

May cause allergic skin reactions.

Store in a cool place.

Slightly toxic to aquatic invertebrates.

Store away from food, feed, seed, other agricultural chemicals and out of reach of children, uninformed persons and animals.

In case of poisoning, call a doctor and show him this label.

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 soil, climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of weeds 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 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 shield or safety glasses 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 spray 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.

Use restrictions

To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit or ornamentals. Apply the product strictly in accordance with the application directions. Do not contaminate any water body.

SYMPTOMS OF HUMAN POISONING:

There are no specific signs of poisoning. The concentrate may cause severe eye irritation. Prolonged or repeated skin contact may cause allergic reactions in some individuals. Harmful effects not anticipated from swallowing small amounts. Prolonged exposure to vapours not likely to be hazardous.

FIRST AID TREATMENT:

Eyes: Irrigate with clean flowing water for 30 minutes. Seek medical advice.

Skin: Remove contaminated clothing. Rinse affected area thoroughly with clean running water.

Ingestion: In case of accidental ingestion, do not induce vomiting. Give 1 or 2 glasses of water or milk to drink. Do not give anything by mouth to an unconscious person. Seek medical attention.

Inhalation: Remove patient to fresh air if effects occur. Seek medical advice.

NOTE TO PHYSICIAN:

No specific antidote. Treatment should always be symptomatic. If lavage is performed, suggest endotracheal and / or esophagosopic control

DIRECTIONS FOR USE

Use only as directed

Compatibility

PLENUM 160 ME is compatible with ACTIPRON SUPER**.

Mixing

For foliar applications, half fill the spray tank with water and add the required quantity of **PLENUM 160 ME**. While filling the spray tank add ACTIPRON SUPER 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 to the point of spray solution run-off.
- Do not apply to foliage wet from rain or dew etc.
- Avoid spray drift onto non-target plants.
- Avoid fine droplet size. Use a knapsack sprayer with a solid cone nozzle (eg. Spraying systems TG-1, Delavan CE 1 or equivalent type) that will ensure an even coverage of the target area. Maintain a constant pressure of between 200 – 250 kPa. Maintain a distance of approximately 50 cm from the target for best coverage.
- Rain 3 hours after application will have no effect on efficacy provided the spray has dried on the target plants.
- Prevent drift of spray mist onto desirable plants.

B. CUT STUMP

- Apply preferably immediately after felling but definitely within 3 hours.
- **PLENUM 160 ME** should not be applied to the stump if surface is wet from rain or dew.
- Apply as a coarse spray using solid cone nozzle tips (eg. Spraying Systems TG-1, Delavan CE 1 or equivalent type) at 100 kPa, low pressure.
- Do not exceed spray height of 20 cm above target. Do not apply if wind velocity exceeds 15 km/h (as measured by handheld wind recorder). The difference between the wet and dry bulb readings on a whirling hygrometer must not exceed 8 °C.
- Apply according to directions in the table below.

C. COMPLETE FRILL

- Using an axe, make horizontal, downward angled cuts through the bark to penetrate but not go deeper than into the sapwood, and immediately apply into every cut, taking care that it is not wasted on the bark. Cuts should be connected and made around the entire circumference of the trunk as close to the soil surface as possible. Re-treat as necessary.
- In the case of trees having multiple stems, treat each stem separately.
- Check for adequate sapflow and bleeding.

Warning:

If topkill is obtained but regrowth occurs from the crown, apply a herbicide registered for use against the relevant species as a foliar spray.

RATES AND METHODS

FOLIAR APPLICATIONS

NOTE: ACTIPRON SUPER should be added at a rate of 500 ml/100 litres spray mix for all foliar applications.

PLANT	RATE / 100 λ WATER	REMARKS
<i>Acacia mearnsii</i> (Black Wattle)	750 ml (0,75 % mixture)	See DIRECTIONS FOR USE above. Apply to actively growing plants. Apply until the point of run-off.
<i>Anredera baselloides</i> (Madeira vine)	500 ml (0,5 % mixture)	Plants too high for a good cover spray should be slashed and the regrowth sprayed when not less than 0,5 m high.
<i>Asclepias fruticosa</i> (Shrubby milkbush)	750 ml (0,75 % mixture)	In the event of any regrowth after application, a follow-up spray should be carried out.
<i>Chromolaena odorata</i> (Triffid weed)	750 ml (0,75 % mixture)	
<i>Cirsium vulgare</i> (Scotch thistle)	750 ml (0,75 % mixture)	
<i>Eucalyptus grandis</i> (Saligna gum)	500 ml (0,5 % mixture)	
<i>Lantana camara</i> (Lantana)	1,5λ (1,5 % mixture)	
<i>Peuraria lobata</i> (Kudzu vine)	500 ml (0,5 % mixture)	
<i>Psidium guajava</i> (Guava)	1,5λ (1,5 % mixture)	
<i>Robinia pseudoacacia</i> (Black Locust)	1,5λ (1,5 % mixture)	
<i>Rubus cuneifolius</i> (American bramble)	750 ml (0,75 % mixture)	
<i>Solanum mauritianum</i> (Bugweed)	250 ml (0,25 % mixture)	

CUT STUMP

NOTE: ACTIPRON SUPER should be added to the spray mixture at a rate of 500 ml /100 litres for all cut stump applications.

PLANT	RATE / 100 ℓ WATER	REMARKS
<i>Acacia mearnsii</i> (Black wattle)	2.0 λ (2.0% mixture)	See DIRECTIONS FOR USE above.
<i>Chromolaena odorata</i> (Triffid weed)	750 ml (0.75% mixture)	Apply to low cut stumps (10 – 20 cm high) preferably with a single cut surface.
<i>Eucalyptus cladocalyx</i> (Sugar gum)	4.5 λ (4.5% mixture)	Apply to complete cut surface of stumps with a diameter of less than 10 cm. Where multiple stumps are present, all cut surfaces must be treated.
<i>Eucalyptus grandis</i> (Saligna gum)	3.0 λ (3.0% mixture)	For bigger stumps, apply to the cambial region (sapwood) of the cut surface. In all cases, apply until the point of run-off.
<i>Eucalyptus sideroxylon</i> (Black Ironbark)	4.5 λ (4.5% mixture)	In the event of some regrowth and depending on the species, a follow-up spray as a coppice application with either CONFRONT 360 SL (Reg. No. L7314 Act No. 36 of 1947), GARLON 480 EC (Reg. No. L4916 Act No. 36 of 1947) or PLENUM 160 ME may be required.
<i>Eucalyptus smithii</i> (Blackbutt peppermint)	4.5 λ (4.5% mixture)	
<i>Lantana camara</i> (Lantana)	1.5 λ (1.5% mixture)	
<i>Melia azedarach</i> (Syringa)	1.5 λ (1.5% mixture)	
<i>Ricinus communis</i> (Castor Oil Plant)	1.0 λ (1.0% mixture)	

COMPLETE FRILL

NOTE: ACTIPRON SUPER should be added to the spray mixture at a rate of 50 ml /10 litres for all frill applications.

PLANT	RATE / 10 ℓ WATER	REMARKS
<i>Melia azedarach</i> (Syringa)	200 ml (2.0% mixture)	SEE DIRECTIONS FOR USE above. Apply sufficient mixture to fill the frill without unnecessary wastage down the bark.

PLENUM 160 ME controls trees and shrubs. Other trees and shrubs that were not present during the development trials with the product, may also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted trees and shrubs.

- N.B.** - In situations where more than one species of target plant occurs contact your local technical representative.
- For assistance in the calibration for spot treatments please contact your local technical representative.

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

24 HOUR EMERGENCY TEL. NO. (032) 533-0716

INFORMATION HOTLINE : TEL. NO.: (012) 361-8112

WAARSKUWINGS

Giftig indien ingesluk word.

Konsentraat mag ernstige irritasie van oë veroorsaak.

Mag allergiese velreaksie veroorsaak.

Effens giftig vir waterlewendende invertebrata.

Berg in 'n koel plek.

Berg weg van voedselware, voer, saad en ander landboumiddels en buite die bereik van kinders, oningeligte persone en diere.

In geval van vergiftiging ontbied 'n geneesheer en toon hierdie etiket aan hom/haar.

HERBETREDING: Moet nie behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende klere gedra word nie.

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 van die betrokke middel na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie.

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

VOORSORGMAATREËLS

Dra beskermende handskoene en gesigskerm of veiligheidsbril wanneer die konsentraat hanteer word.

Moenie dampe of sproeireën inasem nie.

Was besoedelde klere daagliks.

Was onmiddellik met seep en water indien per ongeluk met die vel in aanraking kom. Vermoedlik aanraking met die oë. In geval van oogkontak, spoel oë met skoon water.

Moenie eet, drink of rook tydens vermenging en toediening en alvorens hande en gesig gewas en skoon klere aangetrek is nie.

Verhoed spuitstof wegdrywing na ander gewasse, weidings, riviere, damme of enige gebied wat nie behandel word nie.

Maak spuittoerusting met 'n 1 % huishoudelike ammoniakoplossing skoon voordat ander plaagdoders daarmee gebruik word. Laat staan die oplossing in die spuittenk vir 'n paar uur, maar verkieslik oornag.

Spoel ten minste twee keer met skoon water uit. Hierdie spuittoerusting behoort nie gebruik te word vir die toediening van enige ander chemikalieë nie, behalwe onkruidodders. Gooi waswater weg waar dit nie voedsel, weiding, riviere of 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 spuittenk 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.

Gebruiksbeperkings

Om skade te voorkom, verhoed dat spuitnewel in aanraking kom met, of wegdryf na sensitiewe breëblaargewasse, vrugtebome of sierplante. Dien die produk streng volgens die gebruiksaanwysings toe. Moet nie enige waterbron besoedel nie.

SIMPTOME VAN VERGIFTIGING:

Daar is geen spesifieke tekens van vergiftiging nie. Die konsentraat mag ernstige oog irritasie veroorsaak. Verlengde en aanhoudende velkontak mag allergiese reaksies in sommige individue veroorsaak. Skadelike effekte van die opneming van klein hoeveelhede is nie verwag nie. Lang blootstelling aan dampe sal nie noodwendig gevaarlik wees nie.

NOODHULPBEHANDELING:

Oë: Spoel uit met skoon lopende water vir 30 minute. Verkry mediese advies.

Vel: Verwyder die besoedelde klere. Spoel besmette liggaamsdele deeglik met skoon lopende water.

Indien ingesluk: In geval van toevallige inname, gee een of twee glase water of melk om te drink - moet nie die persoon laat braak nie. Nul per mond vir 'n bewustelose persoon. Verkry mediese advies.

Indien ingeasem: Verwyder die persoon na 'n plek met vars lug. Verkry mediese advies.

NOTA AAN GENEESHEER:

Geen spesifieke teenmiddel. Behandeling simptome. Indien maagspoeling gedoen moet word, word endotracheale en/of esofagoskopie aanbeveel.

Mengbaarheid

PLENUM 160 ME is mengbaar met ACTIPRON SUPER**.

Vermenging

Vir looftoediening vul die spuittenk halfvol met water en voeg die benodigde hoeveelheid **PLENUM 160 ME** by. Vul die spuittenk dan verder met water en voeg ACTIPRON SUPER by teen die dosis soos aangedui hieronder, terwyl roering plaasvind.

Toediening

A. LOOFTOEDIENING

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

- Dien toe as 'n volledige dekbespuiting op loof en stamme tot die punt van spuitstof afloop.
- Moet nie toegedien word wanneer blare nat is as gevolg van reën of dou ens.nie. Vermoed fyn druppelgroottes. Gebruik 'n rugsakspuit wat toegerus is met soliede keelspuitstukke (bv. Spraying Systems TG-1, Delavan CE 1 of soortgelyke spuitstukke) wat egalige benatting sal verseker. Handhaaf 'n konstante druk van 200 – 250 kPa. Handhaaf 'n afstand van ongeveer 50 cm van die teiken vir gewenste benatting.
- Na toediening sal reën 3 ure na toediening geen invloed op die effektiwiteit hê nie, indien die spuitstof op die teiken plant gedroog het.
- Verhoed spuitingstofwegdrywing na gewenste plante.

B. GEKAPTE STOMPESPUITING

- Dien toe verkieslik onmiddellik na afkap maar definitief binne 3 uur.
- **PLENUM 160 ME** moet nie toegedien word op stompe indien hulle nat is weens reën of dou nie.
- Dien toe as 'n growwe spuit deur gebruik van soliede keelspuitstukke (bv. Spraying Systems TG-1, Delavan CE 1 of soortgelyke spuitstukke) en handhaaf 'n druk van 100 kPa, (lae druk).
- 'n Spuithoogte van 20 cm bokant die teiken moet nie oorskry word nie. Indien die windspoed hoër is as 15 km/u (soos bepaal deur 'n handwindmeter) moet die produk nie toegedien word nie. Die verskil tussen die nat- en droëbollesing, soos met 'n swaaihigrometer bepaal moet nie meer as 8 °C wees nie.
- Dien toe volgens aanwysings vir stompe en gekapte stompbespuiting in tabel hieronder.

C. RINGULERINGSMETODE

- Maak horisontale, skuins kapwonde met 'n byl net deur die bas tot net in die splinhout van die boom. Dien in elke kapwond toe. Sorg dat die spuitoplossing nie op die bas gemors word nie. Die kapwonde moet aaneenlopend om die volle omtrek van die stam, so laag as moontlik aan die grondoppervlakte, gemaak word. Herbehandel indien nodig.
- In die geval van veelvuldige stamme moet elke stam afsonderlik behandel word.
- Maak seker dat die sapvloei voldoende maar nie oormatig is nie.

Waarskuwing:

As alle bogroei doodgemaak is, maar hergroei kom vanaf die kroon voor, dien 'n geregistreerde onkruidoder vir die relevante spesies aan as 'n loofbespuiting toe

COPY

DOSIS EN METODEDES

LOOFTOEDIENNING

OPMERKING: ACTIPRON SUPER, moet ten alle tye vir alle loofbespuitings bygevoeg word teen 500 m λ / 100 liter finale spuitmengsel.

PLANTSOORT	DOSIS / 100 λ WATER	OPMERKINGS
<i>Acacia mearnsii</i> (Swartwattel)	750 m λ (0,75 % mengsel)	Sien GEBRUIKSAANWYSINGS hierbo. Dien toe op jong aktief groeiende plante tot die punt van afloop. Plante te hoog vir goeie spuitbedekking moet eers gekap word. Die hergroei word gespuit wanneer dit nie minder as 0,5 m hoog is nie. In die geval van enige hergroei na bespuiting, moet 'n opvolg bespuiting toegedien word.
<i>Asclepias fruticosa</i> (Melkbos)	750 m λ (0,75 % mengsel)	
<i>Anredera baselloides</i> (Madeira vine)	500 m λ (0,5 % mengsel)	
<i>Chromolaena odorata</i> (Paraffienbos)	750 m λ (0,75 % mengsel)	
<i>Cirsium vulgare</i> (Skotsedissel)	750 m λ (0,75 % mengsel)	
<i>Eucalyptus grandis</i> (Salignabloekom)	500 m λ (0,5 % mengsel)	
<i>Lantana camara</i> (Lantana)	1,5 λ 1,5 % mengsel)	
<i>Peuraria lobata</i> (Kudzu)	500 m λ (0,5 % mengsel)	
<i>Psidium guajava</i> (Guava)	1,5 λ 1,5 % mengsel)	
<i>Robinia pseudoacacia</i> (Witakasia)	1,5 λ 1,5 % mengsel)	
<i>Rubus cuneifolius</i> (Amerikaanse braam)	750 m λ (0,75 % mengsel)	
<i>Solanum mauritianum</i> (Luisboom)	250 m λ (0,25 % mengsel)	

GEKAPTE STOMPESPUITING

OPMERKING: ACTIPRON SUPER, moet ten alle tye vir alle stompbespuitings bygevoeg word teen 500 ml/100 liter finale spuitmengsel.

PLANTSOORTE	DOSIS / 100 ℓ WATER	OPMERKINGS
<i>Acacia mearnsii</i> (Swartwattel)	2.0ℓ (2.0% mengsel)	Sien GEBRUIKSAANWYSINGS hierbo.
<i>Chromolaena odorata</i> (Paraffienbos)	750 ml (0.75% mengsel)	Dien toe op laag gekapte stompe (10 – 20 cm hoog) verkieslik met 'n enkele gekapte oppervlakte.
<i>Eucalyptus cladocalyx</i> (Suikerbloekom)	4.5 ℓ (4.5% mengsel)	Dien toe op die hele gekapte oppervlakte vir stompe met 'n deursnee van minder as 10 cm.
<i>Eucalyptus grandis</i> (Salignabloekom)	3.0 ℓ (3.0% mengsel)	Waar veelvoudige stompe teenwoordig is, moet alle gekapte oppervlakte behandel word.
<i>Eucalyptus sideroxylon</i> (Swartsterbasbloekom)	4.5 ℓ (4.5% mengsel)	Vir groter stompe, dien toe op die kambium gedeelte (splinthout). In alle gevalle, dien toe tot die punt van afloop.
<i>Eucalyptus smithii</i> (Swartstampeperment)	4.5 ℓ (4.5% mengsel)	In die geval van hergroei mag 'n opvolgbespuiting, afhangend van die spesie, met of CONFRONT 160 SL (Reg. Nr. L7314 Wet Nr. 36 van 1947), GARLON 480 EC (Reg. Nr. L4916 Wet Nr. 36 van 1947) of PLENUM 160 ME benodig word.
<i>Melia azederach</i> (Sering)	1.5 ℓ (1.5% mengsel)	
<i>Lantana camara</i> (Lantana)	1.5 ℓ (1.5% mengsel)	
<i>Ricinus communis</i> (Kastorolie plant)	1.0 ℓ (1.0% mengsel)	

RINGULERINGSMETODE

OPMERKING: ACTIPRON SUPER, moet ten alle tye vir alle ringuleringstoedienings bygevoeg word teen 50 ml/10 liter finale spuitmengsel.

PLANTSOORT	DOSIS / 10 λ WATER	OPMERKINGS
<i>Melia azedarach</i> (Sering)	200 ml (2.0% mengsel)	Sien GEBRUIKSAANWYSINGS hierbo. Dien genoegsame mengsel toe om slegs die ringuleringswond te vul sonder oormatige oorloop op die bas.

PLENUM 160 ME beheer bome en struik. Ander bome en struik wat nie tydens die ontwikkelingsproewe met die middel voorgekom het nie, kan ook in meerdere of mindere mate daardeur beheer word. Die registrasiehouer aanvaar egter geen aanspreeklikheid ten opsigte van ongelyste bome en struik nie.

BELANGRIK: - Wanneer meer as een ongewenste plant spesies voorkom, raadpleeg die plaaslike tegniese verteenwoordiger van die verskaffer.
- Vir hulp met kalibrasie by kolbehandeling raadpleeg die plaaslike tegniese verteenwoordiger van die verskaffer.

** ACTIPRON SUPER (mineraal olie) (Reg. Nr. L5506, Wet Nr. 36 van 1947), is die handelsmerk van H&R GSP (Edms) Bpk.

24 UUR NOODGEVAL TEL. NR. (032) 533-0716

TEGNIESE NAVRAE/INLIGTING TEL. NR. (012) 361-8112