

Pantera®

Registration No. L6451 (Act No 36 of 1947)

Registrasie Nr. L6451 (Wet No 36 van 1947)

A selective post emergent emulsifiable concentrate systemic herbicide for the control of certain annual and perennial grass weeds in crops as indicated.

'n Selektiewe na-opkom emulgeerbare konsentraat sistemiese onkruidodder vir die beheer van sekere een- en meerjarige grasse in gewasse soos aangedui.

HRAC: HERBICIDE GROUP

A

HRAC: ONKRUIDODDERGROEP

Active ingredient:

Quizalofop-P-tefuryl
(aryloxy phenoxy propionate)

40 g/ℓ

Aktiewe bestanddeel:

Kwisalofop-P-tefuriel
(arieloksiefenoksie propionaat)

REGISTERED AND DISTRIBUTED BY:

Crompton Chemical (Pty) Ltd
Co.Reg.No.83/10960/07
P.O. Box. 2089, KEMPTON PARK 1620
Tel. (011) 397-4336/7/8/9

GEREGISTREER EN VERSPREI DEUR:

Crompton Chemical (Edms) Bpk
Mpy Reg.No. 83/10960/07
Posbus 2089, KEMPTON PARK 1620
Tel. (011) 397-4336/7/8/9

FORMULATED BY:

Chemark kft.
H-8182 Peremarton-Gyartelep,
Hungary

GEFORMULEER DEUR:

Chemark kft.,
H-8182 Peremarton-Gyartelep,
Hungary

PANTERA® is the registered trade mark of
Crompton Corporation, U.S.A.

PANTERA® is die geregistreerde handelsmerk
van Crompton Corporation, V.S.A.

Batch number:

Date of manufactured:

Lotnummer:

Datum van vervaardiging:

UN NO. 3082

Nett Volume/ Netto Volume:

5 ℓ

Crompton

ZA-PA4-089-02 (07/04)



**Caution
Versigtig**



WARNINGS:

WITHHOLDING PERIOD - Allow the following number of days between last application and harvesting or grazing of the crop:

Lucerne	21 days
Medics	21 days

- Handle with care.
- Keep out of reach of children, uninformed persons and animals
- Store away from food and feedstuffs.
- Avoid skin and eye contact, since product can cause irritation.
- May cause sensitisation by skin contact.
- Toxic to fish and aquatic life

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 certain grass 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 in the event of any uncertainty.

PRECAUTIONS

- Wear suitable protective clothing, eye and face protection and rubber gloves during handling.
- Do not inhale the spray mist.
- Wash contaminated clothing after use.
- Wash with soap and water after accidental skin contact.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face.
- In case of contact with eyes, rinse immediately with plenty of water.
- If swallowed do not induce vomiting - seek medical advice immediately and show this container or label.
- Avoid contamination of springs, dams, rivers and other areas not under treatment.
- Rinse empty container three times with a volume of water equal to a minimum of 10% of the volume of the container. Add the rinsings to the contents of the spray tank and then destroy the container by perforation and flattening. Prevent the use of empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- **RE-ENTRY:** Do not enter treated area before spray deposit has dried unless wearing protective clothing.

RESISTANCE WARNING:

For resistance management Pantera is a group A herbicide. Any weed population may contain individuals naturally resistant to Pantera and other group code A herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by Pantera or any other group A herbicides. 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 codes.
- Integrate control methods (chemical, cultural and biological) into weed control programs.

For specific information on resistance management contact the local Crompton Chemical (Pty) Ltd agent.

RESTRICTIONS OF USE:

- Do not apply to crops or weeds which are under stress
- Prevent spray over or allow spray drift to come into contact with neighbouring crops or pastures especially cereal type crops for example maize, barley, oats, rye and wheat.
- PANTERA is quickly degraded in the soil and offers full rotational flexibility
- The following guidelines should be followed for replanting if a crop, treated with PANTERA, failed for some reason (e.g. hail):
 - ❖ Crops, shown on this label to be suitable for treatment, may be replanted at any time
 - ❖ Allow a waiting period of four weeks before any other broadleaf crop is planted
 - ❖ Allow a minimum waiting period of six weeks before planting a cereal crop

WEEDS CONTROLLED:

The following weeds are normally controlled by PANTERA when applied as recommended:

<i>Avena fatua</i>	Common wild oats
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Bromus diandrus</i>	Ripgut brome
<i>Chloris virgata</i>	Feathertop chloris
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Echinochloa colona</i>	Marsh grass
<i>Eleusine indica</i>	Goose grass
<i>Eragrostis tef</i>	Teff
<i>Hordeum murinum</i>	Wild barley
<i>Lolium temulentum</i>	Darnel ryegrass
<i>Lolium perenne</i>	Perennial ryegrass
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Rottboellia cochinchinensis</i>	Guinea fowl grass
<i>Phalaris canariensis</i>	Common canary grass
<i>Sorghum halepense</i>	Johnson grass
<i>Sorghum verticilliflorum</i>	Common wild sorghum
<i>Urochloa panicoides</i>	Herringbone grass
<i>Triticum aestivum</i> (Western/Southern Cape only)	Volunteer wheat

DIRECTIONS OF USE: Use only as directed.

PANTERA is a selective post emergent grass herbicide registered for use in canola, dry beans, groundnuts, Lucerne, medics, sunflowers and soybeans. It should be applied to young, actively growing grass weeds at the 2-6 leaf stage of growth to ensure optimal weed control.

PANTERA is absorbed by the leaves of grasses and moves throughout the entire plant. It accumulates in growing points of shoots and rhizomes where it interferes with normal cell functions leading to death of the plant. The first signs of activity appear 5 to 10 days after application with stunting and chlorosis of the tips of shoots. Death of the weeds occurs 14 to 21 days after application depending on growing conditions.

MIXING INSTRUCTIONS:

Replace cap after use

Half-fill the spray tank with water, then pour the required amount of PANTERA into the spray tank while the water is being stirred. Top up with water to the final volume required.

Ensure thorough agitation of the mixture in the tank during mixing and spraying.

APPLICATION

Apply PANTERA only on young, actively growing weeds, under warm and humid conditions. It is essential that the entire plant is thoroughly covered by the herbicide spray mixture. PANTERA may be applied with any accurately calibrated medium or high volume sprayer, equipped with an efficient agitation mechanism, provided that adequate coverage and even distribution is obtained. Best results are obtained by using flat-fan type nozzles.

Apply in 200 to 400 ℓ /ha of clean water at pressures of 100 to 300 kpa.

APPLICATION RATES

Crop	Dosage (ℓ / ha)	Comment
Canola Lucerne Medics	0.75 - 1.00	<u>Winter rainfall area:</u> Use the higher rate when grass weeds are slightly more advanced than the 2 - 4 leaf stage
	1.0	<u>Summer rainfall area:</u> Apply in the 2-6 leaf stage of the weeds.
Dry beans Groundnuts Soybeans Sunflowers	1.5	<u>Summer rainfall area:</u> Use this application rate for the control of Johnson grass. Apply in the 2-4 leaf stage.

COMMENTS

- Weeds not germinated at the time of application will not be controlled
- PANTERA may be applied at any time during the growing season, independent of crop stage
- It is advantageous to apply follow-up treatments in cases of irregular grass emergence
- Some grasses, such as Johnson grass, propagate and distribute by both seed and rhizomes. Grasses that germinate from seed are well controlled by PANTERA, but plants that grow from rhizomes are difficult to control. Follow-up treatments may be necessary under such conditions.
- Weeds that were overshadowed at the time of application may not be well controlled.

WAARSKUWING:

WAGPERIODE: - Laat die volgende aantal dae toe tussen die laaste toediening en oes of beweiing van die gewasse.

Lusern	21 dae
Medics	21 dae

- Hanteer versigtig
- Hou buite bereik van kinders, oningeligte persone en diere
- Stoor weg van voedsel en veevoer
- Voorkom vel en oogkontak omdat produk irriterend is
- Velkontak mag sensitisering van die vel veroorsaak
- Giftig vir visse en waterlewe

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 sekere grasse 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 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 in geval van enige onsekerheid.

VOORSORGMATREËLS

- Dra geskikte beskermende klere, insluitende rubber handskoene en oog- en gesigbeskerming tydens hantering.
- Voorkom inaseming van sproeinewel.
- Was besoedelde klere na gebruik.
- Was met water en seep na toevallige velkontak.
- Moenie eet, drink of rook tydens vermenging, toediening of voordat hande en gesig gewas is nie.
- In die geval van kontak met die oë, spoel deeglik uit met baie water.
- In die geval van toevallige inname moet braking nie aangemoedig word nie. Raadpleeg onmiddellik 'n geneesheer en wys hierdie houër of etiket.
- Voorkom besoedeling van fonteine, damme, riviere en ander gebiede wat nie onder behandeling is nie.
- Spoel lê houër drie keer uit met water gelykstaande aan een tiende van die houër se inhoudsmaat en voeg die uitspoelwater by die inhoud van die spuitenk. Vernietig lê houër deur gate in te kap en deur plat te druk. Voorkom die gebruik van lê houër vir enige ander doel.
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei
- **HERBETREDING:** Moenie 'n bespuitte gebied binne gaan alvorens die spuitneerslag droog is of tensy beskermende klere gedra word.

BESTANDHEIDSWAARSKUWING:

PANTERA is 'n groepkode A onkruidodder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen PANTERA of enige ander groepkode A onkruidodders het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur PANTERA of enige ander groepkode A onkruidodder beheer word nie. Om weerstand teen onkruidodders te vertraag:

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

Vir spesifieke inligting oor weerstandsbestuur kontak die plaaslike agent van Crompton Chemical (Edms) Bpk.

GEBRUIKSBEPERKINGS:

- Moenie toedien op gewasse of onkruid wat onder enige stremming verkeer nie.
- Voorkom dat spuitnewel oorwaai na aangrensende gewasse , veral graangewasse soos mielies, gars, hawer, rog en koring of weidings.
- PANTERA word vinnig in die grond afgebreek en is geskik vir enige wisselboustelsel.
- As 'n PANTERA-behandelde gewas vir een of ander rede (bv. Hael) misluk, moet op die volgende riglyne gelet word voor die aanplanting van enige ander gewas:
 - ❖ Gewasse, soos op hierdie etiket aangedui as behandelbaar, mag te enige tyd oorgeplant word.
 - ❖ 'n Wagperiode van vier weke moet gehandhaaf word voordat enige ander breeblaargewas geplant word.
 - ❖ 'n Wagperiode van minstens ses weke moet gehandhaaf word voordat 'n graangewas geplant word.

GRASSE WAT BEHEER WORD:

Die volgende onkruid wat gewoonlik met die korrekte toediening van PANTERA beheer:

<i>Avena fatua</i>	Gewone wildehawer
<i>Brachiaria eruciformis</i>	Litjiesinjalgras
<i>Bromus diandrus</i>	Predikantsluis
<i>Chloris virgata</i>	Witpluimchloris
<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Echinochloa colona</i>	Moerasgras
<i>Eleusine indica</i>	Jongosgras
<i>Eragrostis teff</i>	Tef
<i>Hordeum murinum</i>	Wildegars
<i>Lolium temulentum</i>	Drabok (raaigras)
<i>Lolium perenne</i>	Meerjarige raagrass
<i>Panicum schinzii</i>	Soetbuffelsgras
<i>Rottboellia cochinchinensis</i>	Tarentaalgras
<i>Phalaris canariensis</i>	Gewone kanariegras
<i>Sorghum halepense</i>	Johnsongras
<i>Sorghum verticilliflorum</i>	Gewone wilde sorghum
<i>Urochloa panicoides</i>	Beesgras
<i>Triticum aestivum</i> (Wes-en Suid Kaap)	Opslagkoring

GEBRUIKSAANWYSINGS: Gebruik alleenlik soos voorgeskryf.

PANTERA is 'n selektiewe na-opkomsgrasdoder wat geregistreer is vir die gebruik in droëbone, grondbone, kanola, lusern, medics, sonneblom en sojabone. Dit behoort toegedien te word op jong, aktief-groeiende grasse, wat verkieslik in die 2-6 blaarstadium van ontwikkeling is, om optimale beheer te verseker.

PANTERA word deur die blare van grasse ge-absorbeer, waarna dit deur die hele plant versprei. Akkumulering vind plaas in die groeipunte van hulms en/of wortelstokke. Die normale selffunksies word gehinhibeer wat tot die uiteindelige dood van grasonkruid lei. Die eerste beheersimptome, wat gekenmerk word deur vertraagde groei en verkleuring van jong groei, is gewoonlik 5-10 dae na toediening sigbaar. Onkruid is gewoonlik eers 14-21 dae na toediening heeltemal dood, afhangende van die groeitoestand.

MENGINSTRUKSIES

Plaas prop terug na gebruik

Maak die spuitne halfvol met water en voeg die benodigde hoeveelheid PANTERA by terwyl die water in die tenk geroer word. Vul die tenk verder tot die verlangde volume verkry is. Die spuitmengsel moet gedurende vermenging en toediening voortdurend in roering gehou word.

TOEDIENING

Dien PANTERA toe op jong aktief groeiende onkruid onder warm en vogtige toestande. Dit is noodsaaklik dat alle dele van die onkruid deeglik deur die onkruidodderspuitmengsel bedek word, om goeie resultate te verseker. PANTERA kan met enige akkuraat gekalibreerde medium of hoë volume spuittoerusting wat met doeltreffende roermeganisme toegerus is, en wat goeie bedekking en eweredige verspreiding verseker, toegedien word. Die beste resultate word verkry deur gebruik te maak van spuitstukke met platwaaierspuitpunte. Dien toe in 200 tot 400 ℓ/ha skoon water teen 100 tot 300 kPa druk.

PANTERA moet deur middel van korrek-gekalibreerde grondtoedieningsapparaat toegedien word. Dien toe in 200 tot 400 ℓ skoon water per hektaar teen 'n konstante druk van 100 tot 300 kPa. Verseker deeglike en eweredige bedekking van teiken-onkruid.

TOEDIENINGSHOEVEELHEDE

Gewas	Dosis (ℓ / ha)	Opmerkings
Kanola Lusern Medics	0.75 - 1.00	<u>Winter-reënval gebied</u> Gebruik die hoër dosis indien grasse effens verder as die 2-4 blaarstadium ontwikkel het
Droëbone Grondbone Sojabone Sonneblom	1.0	<u>Somer reënval gebied</u> Dien toe in die 2-6 blaarstadium van die onkruid
	1.5	<u>Somer reënval gebied</u> Gebruik hierdie dosis vir die beheer van Johnsongras. Dien toe in die 2-4 blaarstadium.

OPMERKINGS

- Onkruid wat nog nie tydens bespuiting ontkiem het nie, sal nie beheer word nie.
- PANTERA kan enige tyd gedurende die groeiseisoen toegedien word, onafhanklik van die groeistadium van die gewas.
- In die geval van oneweredige grasontkieming, mag 'n opvolgbespuiting voordelig wees.
- Sommige grasse soos Johnsongras versprei en vermeerder deur beide saad en wortelstokke. Gras wat ontkiem van saad sal maklik deur PANTERA beheer word, maar as dit ontkiem van wortelstokke is dit moeiliker om te beheer. Opvolgbespuitings mag onder sulke toestande nodig wees.
- Gras wat oorskadu word ten tye van toediening sal nie beheer word nie.