



Dow AgroSciences

# DERBY™ 175 SC



HERBICIDE

REG. NO. L6781 ACT/WET NO. 36/1947

A SUSPENSION CONCENTRATE  
HERBICIDE FOR SELECTIVE POST  
EMERGENCE BROADLEAF WEED  
CONTROL IN WHEAT AND OATS IN  
THE WESTERN, SOUTHERN AND  
EASTERN CAPE.

'N SUSPENSIE KONSENTRAAT  
ONKRUIDDODER VIR SELEKTIEWE NA-  
OPKOMS BEHEER VAN  
BREËBLAARONKRUIDE IN KORING EN  
HAWER IN DIE WES-, SUID- EN OOS-  
KAAP.

HERBICIDE GROUP CODE

B

ONKRUIDDODER GROEPKODE

## ACTIVE INGREDIENTS/AKTIEWE BESTANDDELE

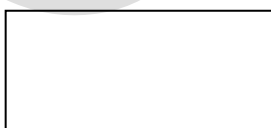
Florasulam (Triazolopyrimidine) ..... 75 g/l ..... Florasulam (Triazolopirimidien)  
Flumetsulam (Triazolopyrimidine) ..... 100 g/l ..... Flumetsulam (Triazolopirimidien)

NET VOLUME ..... l ..... NETTO VOLUME

REGISTERED BY / GEREGISTREER DEUR:  
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. ....



..... Lot No.

Date of Manufacture .....

..... Datum van Vervaardiging

UN NO : 3082

Poisons Helpline: +27(0)861-555-777  
Griffon Poison Information Centre: +27(0)82-446-8946  
24 Hour Emergency Tel No: 082-887-8079  
Information Hotline Tel No: +27 (012) 361-8112

DERBY\* 175 SC/2007-01-31



CAUTION  
VERSIGTIG



## WARNINGS

**Wheat and Oats - Allow 30 days between application and grazing by livestock.**

Store in a cool place.

Store away from food and feeds.

Keep out of reach of children, uninformed persons and animals.

May cause eye irritation.

RE-ENTRY INTERVAL : Do not enter treated area until spray deposit has dried unless wearing protective clothing.

**Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

***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 in the event of any uncertainty.***

## PRECAUTIONS

Do not inhale the spray mist.

Avoid skin contact.

Wash contaminated clothing after use.

Wash with soap and water after use.

Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face.

Avoid drift or spray onto other crops, grazing, rivers, dams and areas not under treatment.

Clean applicator thoroughly after use and ensure that all traces of **DERBY\* 175 SC** are removed. (See sprayer cleanup).

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 in the prescribed manner.

Prevent contamination of food, feeds, drinking water and eating utensils.

Destroy empty container and do not use it for any other purpose.

## RESISTANCE PREVENTION AND MANAGEMENT

**DERBY 175 SC** is a member of the triazolopyrimidine group of herbicides and has the ALS (AcetoLactate Synthase) inhibition mode of action.

Some naturally occurring weed biotypes resistant to **DERBY 175 SC** herbicide and other herbicides that are ALS inhibitors may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by **DERBY 175 SC** herbicide or other ALS inhibitors.

### TO DELAY THE SELECTION OF RESISTANT WEEDS

- ❖ Integrate tillage, crop rotation or mechanical control methods (including non-selective herbicides) during the fallow period into weed control programmes whenever practical.
- ❖ Avoid repeated use of herbicides from the same mode of action group. Plan crop rotations to allow use of herbicides from different mode of action groups.
- ❖ Maintain herbicide use records for each field.
- ❖ Prevent movement of resistant weed seeds and vegetative material to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- ❖ When grazing, begin with lands with the least weed resistance before moving to lands with high resistance due to the possibility of animals spreading the seed.
- ❖ Inspect all lands annually to identify the development of resistance early.

For further advice on the prevention of herbicide resistance contact your Dow AgroSciences representative.

### USE RESTRICTIONS

Do not apply **DERBY\* 175 SC** to cereals under sown with legumes.

Do not apply **DERBY\* 175 SC** to crops that are stressed by severe weather conditions, drought, water-logging, disease or insect damage.

Apply the product strictly in accordance with the application directions.

Do not contaminate any water body eg. dams, rivers, boreholes, etc.

### MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES

Crops other than wheat, barley and oats can be very sensitive to low concentrations of **DERBY\* 175 SC** in the soil. Therefore careful consideration should be given to crop rotation plans prior to using **DERBY\* 175 SC**.

The minimum recropping interval includes the time of last application of **DERBY\* 175 SC** to the anticipated date of replanting.

To avoid injury to subsequent crops the following recropping intervals should be observed :

Lucerne and medics - 3 months.

All types of cereals (wheat, barley and oats) can be replanted without any restrictions in the season following the application of **DERBY\* 175 SC**.

For all other crops a replanting interval of at least 12 months has to be observed preceded by a test planting.

#### **WEEDS CONTROLLED:**

##### **WITH DERBY\* 175 SC :**

<i>Anagallis arvensis</i>	pimpernel
<i>Arctotheca calendula</i>	cape weed
<i>Lupinus angustifolius</i>	volunteer lupins
<i>Malva parviflora</i>	small mallow
<i>Polygonum aviculare</i>	prostrate knotweed
<i>Raphanus raphanistrum</i>	wild radish
<i>Medicago</i> spp./ <i>Trifolium</i> spp.	clovers
<i>Urtica urens</i>	bush stinging nettle

##### **WITH DERBY\* 175 SC + BROMOXYNIL :**

<i>Anagallis arvensis</i>	pimpernel
<i>Arctotheca calendula</i>	cape weed
<i>Emex australis</i> **	spiny emex
<i>Lupinus angustifolius</i>	volunteer lupins
<i>Malva parviflora</i>	small mallow
<i>Polygonum aviculare</i>	prostrate knotweed
<i>Raphanus raphanistrum</i>	wild radish
<i>Medicago</i> spp./ <i>Trifolium</i> spp.	clovers
<i>Urtica urens</i>	bush stinging nettle

\*\* For control of ***Emex australis*** use only ground application and NOT aerial application.

## WITH DERBY\* 175 SC + BRUSH-OFF :

<i>Anagallis arvensis</i>	pimpernel
<i>Arctotheca calendula</i>	cape weed
<i>Chenopodium album</i>	white goose foot
<i>Echium plantagineum</i>	purple echium
<i>Emex australis</i>	spiny emex
<i>Lupinus angustifolius</i>	volunteer lupins
<i>Malva parviflora</i>	small mallow
<i>Medicago spp/Trifolium spp</i>	clovers
<i>Oxalis pes-caprae</i>	yellow sorrel
<i>Pentzia suffruticosa</i>	small stinkweed
<i>Polygonum aviculare</i>	prostate knotweed
<i>Raphanus raphanistrum</i>	wild radish
<i>Sisymbrium thellungii</i>	common mustard
<i>Spergula arvensis</i>	corn spurry
<i>Urtica urens</i>	bush stinging nettle

**DIRECTIONS FOR USE : Use only as directed.**

## GENERAL INFORMATION

**DERBY\* 175 SC** is a suspension concentrate herbicide for selective post-emergence control of broadleaf weeds as listed in the Western, Southern and Eastern Cape regions.

For maximum broadleaf weed control apply **DERBY\* 175 SC** with BRUSH-OFF or one of the bromoxynil formulations, (as listed under COMPATIBILITY), to young weeds at the seedling stage but before they are beyond the 4 leaf stage. Weeds should also be actively growing under moist conditions. Weeds under drought stress may be less susceptible.

**DERBY\* 175 SC** rapidly inhibits growth of susceptible weeds. However visible symptoms of dying weeds may not be noticeable for 1 to 3 weeks after application depending on growing conditions and weed susceptibility.

On wheat and oats **DERBY\* 175 SC** may, under certain circumstances, cause some leaf abscission and/or yellowing of the lower leaves. This will however not impact on the yield.

## COMPATIBILITY

**DERBY\* 175 SC** is compatible with the following products in a tank mixture as listed and only for the indicated weed or insect problem.

### BROADLEAF WEEDS

To increase the broadleaf spectrum controlled (see lists), **DERBY\* 175 SC** may be tank mixed with BUCTRIL DS (L3350), BROMINAL SUPER (L 5168), BENTROL SUPER (L5167), {all containing 450 g bromoxynil/ℓ}, BRUSH-OFF (containing 600 g metsulfuron methyl/kg) (L4535)

#### WILD OATS

**DERBY\* 175 SC** may be tank mixed with HOELON 36 EC (containing 378 g diclofop methyl/ℓ) (L5568), PUMA S 120 EC (containing 120 g fenoxaprop-p-ethyl/ℓ) (L 5787) or TOPIK 240 EC (containing 240 g clodinofof-propargyl/ℓ) (L4250).

#### BROME GRASS

**DERBY\* 175 SC** may be tank mixed with MONITOR 75 WG (containing 750 g sulfosulfuron/kg (L6003).

#### CANARYSEED GRASS

**DERBY\* 175 SC** may be tank mixed with TOPIK 240 EC.

#### RYE GRASS

**DERBY\* 175 SC** may be tank mixed with HOELON 36 EC or TOPIK 240 EC.

#### INSECTS

**DERBY\* 175 SC** is compatible with DIMET 400 EC (containing 400 g dimethoate /ℓ) (L757), FOLIMAT 800 SL (containing 800 g omethoate/ℓ (L2316) and DEMETON EC (containing 250 g demeton-s-methyl/ℓ )(L4852).

#### TRACE ELEMENTS

**DERBY\* 175 SC** is compatible with Manganese sulphate (MnSO<sub>4</sub>), Zinc oxide (ZnO<sub>2</sub>) and Copper oxychloride.

- NOTE: (i) **WHERE ONE OF THE ABOVE PRODUCTS IS USED IN A TANK MIXTURE WITH DERBY\* 175 SC, FULL DETAILS FROM THE RELEVANT LABEL MUST BE OBTAINED AND ADHERED TO.**
- (ii) Since the formulation of other products may change without the knowledge of Dow AgroSciences and water quality may vary from farm to farm a physical compatibility test should always be carried out prior to application.

DO NOT mix with herbicides, insecticides, fungicides, fertilizers or any other chemicals not recommended on the label.

Consult your local representative for details.

## MIXING INSTRUCTIONS

**DERBY\* 175 SC** is a suspension concentrate formulation, which mixes easily with water, provided the following mixing procedures are implemented :

- Quarter- to half- fill the spray tank with water.
- Start the agitation.
- Add the required quantity of **DERBY\* 175 SC** directly to the tank.
- Continue agitation while topping up the tank with water and while spraying.
- Use **DERBY\* 175 SC** spray preparations within 24 hours as the effectiveness may be reduced due to product degradation. Thoroughly reagitate before reusing.

## GROUND APPLICATION

**DERBY\* 175 SC** can be applied with any medium or high volume sprayer equipment with an efficient agitation mechanism which is capable of adequate coverage and even distribution. Best results are obtained using flat fan-type spray nozzles and applying a minimum spray volume of 150 - 200 litres water per hectare. For an air-driven sprayer use 75 - 100 litres water per hectare.

## AERIAL APPLICATION

Aerial application of **DERBY 175 SC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 30 to 35 litre per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: 30 to 40 droplets per cm<sup>2</sup> must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 300 to 350 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.

- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

## APPLICATION

CROP/WEEDS	RATE/HA	REMARKS
<b>GROUND AND AERIAL APPLICATION</b>  <b>WHEAT AND OATS</b> ( <i>Raphanus</i> + other weeds listed)	50 ml <b>DERBY*</b> <b>175 SC</b>	Ensure that information "DIRECTIONS FOR USE" are adhered to.  Apply between 2 leaf and end of tillering of the crop when the weeds are in the seedling stage (2-4 leaf).  Where grass weeds, nl. wild oats, canaryseed grass or ryegrass problems occur in wheat, tank mixes as recommended under "COMPATIBILITY" must be consulted.



CROP/WEEDS	RATE/HA	REMARKS
<p><b>GROUND AND AERIAL APPLICATION</b></p> <p><b>WHEAT AND OATS</b> (<i>Raphanus</i> + other weeds listed)</p> <p>(For control of <i>Emex australis</i> use only ground application and NOT aerial application)</p>	<p>50 ml <b>DERBY*</b> <b>175 SC</b> + 350 ml bromoxynil (450 g/l)</p>	<p>Ensure that information "DIRECTIONS FOR USE" are adhered to.</p> <p>Apply between 3 leaf and late tillering of the crop when the weeds are in the seedling stage (2 - 4 leaf).</p> <p><u>NOTE:</u> Consult the listed bromoxynil labels for full details.</p>
<p><b>GROUND APPLICATION</b></p> <p><b>WHEAT</b> (<i>Raphanus</i> + other weeds listed)</p>	<p>50 ml <b>DERBY*</b> <b>175 SC</b> + 3.5 g BRUSH-OFF</p>	<p>Ensure that information "DIRECTIONS FOR USE" are adhered to.</p> <p>Apply between 3 leaf and late tillering of the crop when the weeds are in the seedling stage (2 - 4 leaf).</p> <p><u>NOTE:</u> Consult the BRUSH-OFF label for full details.</p>

Degree of control obtained and duration of effect depend on weed species, weed size, growing conditions at and following the period of application.

### SPRAYER CLEANUP

To prevent any damage to subsequent crops, other than wheat or oats, all traces of **DERBY\* 175 SC** must be removed from the mixing and spraying equipment. Proceed as follows :

- a) The spray tank should be drained immediately after spraying crops. Wash any contamination off the outside of the sprayer with clean water.
- b) The inside of the spray tank should be rinsed with clean water and flushed with at least one tenth of the spray tank volume through the hoses and nozzles. Drain the tank completely.

- c) Half-fill the tank with clean water and add the correct quantity of cleaning agent. Per 100 litres of final tank volume, add 350 ml household ammonia (9,5 % ammonia) to the water, eg. in the case of a 1 000 litres spray tank, fill with 500 litres water and add 3,5 litres (=10 x 0,35 ℓ) household ammonia. The initial solution now prepared which is double strength, should be mixed thoroughly by turning on the agitation. This solution is now used for flushing the hoses and nozzles for approximately 1 minute. The remainder is now filled up to the final volume of the spray tank and allowed to stand for 15 minutes with the agitation running. After this 15 minute interval, flush the boom and hoses again and drain the tank completely.
- d) Remove the nozzle and filters and allow to soak in a bucket containing 40 ml of household ammonia per 10 litres of water.
- e) Rinse the tank again with water and flush at least one tenth of the tank volume through the boom and hoses.
- f) Dispose of the wash water safely. Do not spray onto sensitive crops or land intended for planting with sensitive crops.

#### Precautions with spray cleanup

- Do not inhale the vapour of the cleaning agents.
- Avoid contact with eyes and skin.
- In case of contact with eyes and skin rinse immediately with plenty of water and seek medical advice.
- Keep out of reach of children, uninformed persons and animals.
- Keep cleaning agents only in original containers.

### **STORAGE AND DISPOSAL**

#### Storage conditions

Store away from sun and damp, in original tightly closed containers, in a well ventilated area apart from food and feed under lock and key. Avoid storage above 35 °C.

#### Product and container disposal

Do not re-use empty containers for any other purpose, especially not for storing food or feed.

Dispose of surplus product and empty containers in an industrial incinerator approved for pesticides. Do not bury in or spray onto any area under agricultural use. Empty containers well, rinse several times with water and pour rinse solution in the spray tank.

**The following trademarks and registrations under Act 36 of 1947 are acknowledged:**

Bentrol® Super	Reg No L5167	Bayer Crop Science AG
Brominal® Super	Reg No L5168	Bayer Crop Science AG
Brush-Off®	Reg No L 4535	Du Pont
Buctril® DS	Reg No L3350	Bayer Crop Science AG
Demeton® EC	Reg No L 4852	Villa Crop Protection (Pty) Ltd
Folimat® 800 SL	Reg No L2316	Bayer Crop Science AG
Hoelon® 36 EC	Reg No L5568	Bayer Crop Science AG
Monitor® 75 WG	Reg No L 6003	Monsanto
Puma® S 120 EC	Reg No L5787	Bayer Crop Science AG
Topik® 240 EC	Reg No L4250	Syngenta AG

**24 HOUR EMERGENCY TEL. NO. 082-887-8079**

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

## WAARSKUWINGS

**Koring en Hawer - Laat 30 dae verloop tussen toediening en beweiding deur vee.**

Berg in 'n koel plek.

Berg weg van voedsel en voer.

Hou buite bereik van kinders, oningeligte persone en diere.

Mag oog irritasie veroorsaak.

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

**Lugtoediening:** Stel alle inwoners in die onmiddellike omgewing van die gebied wat behandel gaan word in kennis en reik die nodige waarskuwings uit. Moet nie aangrensende gebiede of waterbronne bespuit of toelaat dat die spuitnewel daarheen oorwaai 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 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 in die geval van enige onsekerheid.***

## VOORSORGMATREËLS

Moet nie die spuitnewel inasem nie.

Vermyn kontak met die vel.

Was besoedelde klere na gebruik.

Was met seep en water na gebruik.

Moet nie eet, drink of rook tydens vermenging of toediening van die produk of voordat die hande en gesig gewas is nie.

Vermyn spuitnewel op ander gewasse, weiveld, riviere, damme en plekke wat nie behandel moet word nie.

Maak toedieningsapparaat skoon na gebruik en maak seker dat alle tekens van **DERBY\* 175 SC** verwyder is. (Lees skoonmaak van spuit.)

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 op die voorgeskrewe wyse vernietig word.

Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.

Vernietig leë houer en moet nie vir enige ander doel gebruik nie.

## WEERSTAND-VOORKOMING EN BESTUUR

**DERBY 175 SC** is deel van die triasolopirimidien groep van onkruidodders wat die ALS (AcetoLactate Synthase) inhibering as metode van werking het.

Weens natuurlike genetiese variasie in enige onkruid populasie mag sommige onkruidbiotipes wat in die natuur voorkom weerstandbiedendheid toon teen **DERBY 175 SC**, asook ander onkruidodders wat ALS inhibeer. Indien onkruidodders met dieselfde werkingswyse herhaaldelik gebruik word kan hierdie weerstandbiedende individue uiteindelik die onkruidpopulasie domineer. Hierdie weerstandbiedende onkruid sal nie deur **DERBY 175 SC** of ander ALS inhibeerders beheer word nie.

## BESTUURSAKSIES OM SELEKSIE VAN WEERSTANDBIEDENDE ONKRUIDE TE VERMINDER

- Implementeer bewerkingspraktyke, wisselboustelsels of ander meganiese beheerstelsels (insluitende die gebruik van nie-selektiewe onkruidodders) waar prakties moontlik.
- Verminder die herhaalde gebruik van onkruidodders met dieselfde metode van werking. Beplan gewasrotasie sodat onkruidodders met verskillende metodes van werking gebruik word.
- Hou rekord van onkruidoddergebruik van elke land.
- Voorkom die verspreiding van weerstandbiedende saad asook vegetatiewe materiaal na ander lande deur gereelde skoonmaak van stropers en ploë en plant van onkruidvrye saad.
- Met beweiding, begin by lande met die minste onkruidweerstand voor beweging na lande met hoë weerstand om verspreiding van saad deur diere te verhoed.
- Ondersoek alle lande jaarliks om moontlike weerstand vroegtydig uit te ken.

Kontak u Dow AgroSciences verteenwoordiger vir verdere advies rakende die voorkoming van onkruidodder weerstandbiedendheid.

Indien bostaande maatreëls nie nageset nagekom word nie, kan Dow AgroSciences geen aanspreeklikheid aanvaar ten opsigte van enige verlies wat mag ontstaan indien **DERBY 175 SC** nie weerstandbiedende onkruid beheer nie.

## GEBRUIKSBEPERKINGS

Moet nie **DERBY\* 175 SC** toedien op graan ondersaai met peulgewasse nie.

Moet nie **DERBY\* 175 SC** toedien op gewasse wat onder stremming verkeer a.g.v. strawwe weerstoestande, droogte, versuiping, siekte of insekbeskadiging nie.

Dien die produk streng volgens die gebruiksaanwysings toe.

Moet nie enige waterbronne besoedel nie bv. damme, riviere, boorgate, ens.

## MINIMUM WAGPERIODES EN WISSELBOU-AANWYSINGS

Gewasse anders as koring, gars en hawer kan baie sensitief wees teenoor lae konsentrasies **DERBY\* 175 SC** in die grond. Deeglike oorweging moet dus gegee word aan wisselboubepanning alvorens **DERBY\* 175 SC** gebruik word.

Die minimum wagperiode dui op die tydsverloop vanaf die laaste toediening van **DERBY\* 175 SC** tot die verwagte tyd van aanplanting van 'n opvolggewas.

Om skade aan opvolggewasse te voorkom moet die volgende wagperiodes in ag geneem word :

Lusern en medics - 3 maande.

Alle tipes grane (koring, gars, hawer) kan sonder enige beperking die daaropeenvolgende seisoen, na die toediening van **DERBY\* 175 SC**, geplant word.

Vir alle ander gewasse word 'n wagperiode van ten minste 12 maande aanbeveel, voorafgegaan deur 'n toetsplanting.

## ONKRUIDE BEHEER

### MET DERBY\* 175 SC :

<i>Anagallis arvensis</i>	blouselblommetjie
<i>Arctotheca calendula</i>	gousblom
<i>Lupinus angustifolius</i>	opslag lupiene
<i>Malva parviflora</i>	kiesieblaar
<i>Polygonum aviculare</i>	litjiesgras
<i>Raphanus raphanistrum</i>	ramenas
<i>Medicago</i> spp./ <i>Trifolium</i> spp.	klawers
<i>Urtica urens</i>	bos brandnetel

### MET DERBY\* 175 SC + BROMOXYNIL :

<i>Anagallis arvensis</i>	blouselblommetjie
<i>Arctotheca calendula</i>	gousblom
<i>Emex australis</i> **	emex dubbeltjie
<i>Lupinus angustifolius</i>	opslag lupiene
<i>Malva parviflora</i>	kiesieblaar
<i>Polygonum aviculare</i>	litjiesgras
<i>Raphanus raphanistrum</i>	ramenas
<i>Medicago</i> spp./ <i>Trifolium</i> spp.	klawers
<i>Urtica urens</i>	bos brandnetel

\*\* Vir **Emex australis** beheer moet alleenlik grondtoediening en NIE lugtoediening gebruik word nie.

## **MET DERBY\* 175 SC + BRUSH-OFF:**

<i>Anagallis arvensis</i>	blouselblommetjie
<i>Arctotheca calendula</i>	gousblom
<i>Chenopodium album</i>	withondebossie
<i>Echium plantagineum</i>	pers echium
<i>Emex australis</i>	emex dubbeltjie
<i>Lupinus angustifolius</i>	opslag lupiene
<i>Malva parviflora</i>	kiesieblaar
<i>Medicago spp/Trifolium spp</i>	klawers
<i>Oxalis pes-caprae</i>	geelsuring
<i>Pentzia suffruticosa</i>	klein stinkkruid
<i>Polygonum aviculare</i>	litjiesgras (koperdraad)
<i>Raphanus raphanistrum</i>	ramenas
<i>Sisymbrium thellungii</i>	gewone wildemosterd
<i>Spergula arvensis</i>	sporrie
<i>Urtica urens</i>	bos brandnetel

## **GEBRUIKSAANWYSINGS : Gebruik slegs soos aangedui**

### **ALGEMENE INLIGTING**

**DERBY\* 175 SC** is 'n suspensie konsentraat vir die selektiewe na-opkom beheer van breëblaaronkruid, soos gelys, in die Wes-, Suid- en Oos-Kaap.

Om die maksimum beheer of onderdrukking van breëblaaronkruid te verkry, dien **DERBY\* 175 SC** saam met BRUSH-OFF of een van die bromoksinil formulasies, (soos gelys onder VERENIGBAARHEID), op jong onkruid op die saailingstadium toe maar voor hulle verby die 4 blaar stadium gaan. Onkruid moet aktief onder vogtige toestande groei. Onkruid wat onder droogtestremming verkeer mag minder gevoelig wees.

Alhoewel simptome nie voor 1 tot 3 weke sigbaar mag wees nie, afhangende van groeitoestande en onkruidgevoeligheid, word die groei van gevoelige onkruid vinnig deur **DERBY 175 SC** gestrem.

**DERBY\* 175 SC** mag, onder sekere omstandighede, 'n blaarafsnoering en/of vergeling van die onderste blare van koring en hawer veroorsaak. Dit sal geen effek op die opbrengs hê nie.

## VERENIGBAARHEID

**DERBY\* 175 SC** is verenigbaar met die volgende produkte in 'n tenkmengsel en alleenlik vir die onkruid of insekprobleem soos aangedui.

### BREËBLAARONKRUIDE

Om die breëblaaronkruid spektrum te vergroot (sien lyste), mag **DERBY\* 175 SC** met BUCTRIL DS (L3350), BROMINAL SUPER (450 g/ℓ) (L5168), BENTROL SUPER (L5167), {almal bevat 450 g bromoksinil/ℓ}, of BRUSH-OFF (bevat 600 g metsulfuron methiel/kg) (L4535) in 'n tenkmengsel gebruik word.

### WILDEHAWER

**DERBY\* 175 SC** mag met HOELON 36 EC (bevat 378 g diklofop methiel/ℓ) (L5568), PUMA S 120 EC (bevat 120 g fenoksaprop-p-ethiel/ℓ) of TOPIK 240 EC (bevat 240 g klodienafop propagiël/ℓ) (L4250) in 'n tenkmengsel gebruik word.

### PREDIKANTSLUIS

**DERBY\* 175 SC** mag met MONITOR 75 WG (L6003) gemeng word.

### KANARIESAADGRAS

**DERBY\* 175 SC** mag met TOPIK 240 EC in 'n tenkmengsel gebruik word.

### RAAIGRAS

**DERBY\* 175 SC** mag met HOELON 36 EC of TOPIK 240 EC in 'n tenkmengsel gebruik word.

### INSEKTE

**DERBY\* 175 SC** is mengbaar met DIMET 400 EC (bevat 400 g dimetooat/ℓ) (L757), FOLIMAT 800 SL (bevat 800 g ometoaat/ℓ) (L2316) en DEMETON EC (bevat 250 g demeton-s-methiel/ℓ) (L4852).

### SPOORELEMENTE

**DERBY\* 175 SC** is mengbaar met Mangaansulfaat ( $MnSO_4$ ), Sink oksied ( $ZnO_2$ ) en koperoksichloried.

NOTA : (i) **WAAR EEN VAN DIE BOGENOEMDE PRODUKTE MET DERBY\* 175 SC IN 'N TENKMENGSSEL GEBRUIK WORD MOET VOLLEDIGE INLIGTING VAN DIE BETROKKE ETIKET VERKRY EN NAGEVOLG WORD.**

(ii) Aangesien die formulاسie van ander produkte, sonder waarskuwing aan Dow AgroSciences, kan verander en dat waterkwaliteit ook van plaas tot plaas kan varieer, moet 'n fisiese mengbaarheidstoets voor toediening uitgevoer word.



- MOET NIE meng met onkruidodders, insekdodders, swamdodders, kunsmis of enige ander chemikalieë wat nie op die etiket aanbeveel word nie.
- Vir verdere inligting raadpleeg u plaaslike verteenwoordiger.

## MENGINSTRUKSIES

**DERBY\* 175 SC** is 'n suspensie konsentraat wat maklik met water meng indien die volgende vermengingsinstruksies nagekom word.

- Vul die spuittenk kwart tot halfvol met water.
- Begin die roering.
- Voeg die verlangde hoeveelheid **DERBY\* 175 SC** direk in die spuittenk.
- Hou aan met roer terwyl die tenk vol water gemaak en gespuit word.
- Gebruik **DERBY\* 175 SC** spuitmengsel binne 24 uur aangesien die effektiwiteit mag verminder vanweë produkafbraak. Roer deeglik voor hergebruik.

## GRONDTOEDIENING

**DERBY\* 175 SC** kan toegedien word met enige medium- of hoë volume spuittoerusting wat met 'n doeltreffende roermeganisme toegerus is en wat goeie bedekking en eweredige verspreiding verseker. Die beste resultate word verkry deur van platwaaierspuitpunte gebruik te maak en 'n minimum spuitvolume van 150 - 200 liter water per hektaar toe te dien. Vir 'n kousbalk, gebruik 75 - 100 liter water per hektaar.

## LUGTOEDIENING

**DERBY 175 SC** kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SABS Kode 10118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- Volume: 'n Spuitmengsel volume van 30 tot 35 liter per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- Druppel bedekking: 30 tot 40 druppels per cm<sup>2</sup> moet op die teikenarea herwin word.
- Druppelgrootte: 'n Druppelspektrum met 'n VMD van 300 tot 350 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Vlieghoogte: Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binnste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.

- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihieter, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15 km/uur oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80% en meer) mag tot volgende probleme aanleiding gee:
  - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
  - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

## TOEDIENING

GEWAS/ONKRUID	DOSIS/HA	AANMERKINGS
<b>GROND- EN LUGTOEDIENING</b>  <b>KORING EN HAWER</b> ( <i>Raphanus</i> + ander onkruid gelys)	50 ml <b>DERBY* 175 SC</b>	Verseker dat inligting onder "GEBRUIKSAANWYSINGS" gevolg word.  Dien toe tussen die 2 blaar en einde stoelstadium van gewas en wanneer die onkruid in die saailing stadium is (2-4 blaar).  <b>NOTA:</b> Waar grasonkruid soos bv. wildehawer, kanariesaadgras of raaigras in koring voorkom, mag tenkmengsels, soos aanbeveel onder "VERENIGBAARHEID" gebruik word.

GEWAS/ONKRUID	DOSIS/HA	AANMERKINGS
<b>GROND- EN LUGTOEDIENING</b>  <b>KORING EN HAWER</b> <i>(Raphanus + ander onkruid gelys)</i>  <i>(Vir Emex australis beheer, moet alleenlik grondtoediening en NIE lugtoediening, gebruik word nie.)</i>	50 ml <b>DERBY*</b> <b>175 SC</b> + 350 ml bromoksinil (450 g/l)	Verseker dat inligting onder “GEBRUIKSAANWYSINGS” gevolg word.  Dien toe tussen die 3 blaar en einde stoelstadium van die gewas en wanneer die onkruid in die saailing stadium is (2-4 blaar).  <u>NOTA:</u> Raadpleeg die gelyste bromoksinil etikette vir volledige besonderhede.
<b>GRONDTOEDIENING KORING</b> <i>(Raphanus + ander onkruid gelys)</i>	50 ml <b>DERBY*</b> <b>175 SC</b> + 3.5 g BRUSH-OFF	Verseker dat inligting onder “GEBRUIKSAANWYSINGS” gevolg word.  Dien toe tussen die 3 blaar en einde stoelstadium van die gewas en wanneer die onkruid in die saailing stadium is (2-4 blaar).  <u>NOTA:</u> Raadpleeg die BRUSH-OFF etiket vir volledige besonderhede.

Graad van beheer verkry en die duurre van die effek hang af van die onkruidspesie, onkruidgrootte en groeitoestande gedurende en na die toediening.

### SKOONMAAK VAN SPUIT

Om daaropvolgende skade aan gewasse anders as koring en hawer te vermy, moet alle spore van **DERBY\* 175 SC** direk na toediening, deeglik vanuit die meng- en spuittoerusting verwyder word. Gaan soos volg te werk :

- Dreineer die spuitsisteem onmiddellik na bespuiting van gewas. Was enige kontaminasie van die buitekant van die tenk af met skoon water.
- Spoel die binneoppervlak van die tenk met skoon water. Spuit ten minste een tiende van die tenk se kapasiteit deur die pype en spuitpunte. Dreineer die tenk deeglik.
- Maak die tenk half vol met skoon water en voeg die korrekte hoeveelheid skoonmaakmiddel by. Vir elke 100 liter van die finale tenk volume, voeg 350 ml huishoudelike ammoniak (9.5 % ammoniak), in die water. (bv. in die geval van 'n 1 000 liter spuittenk, vul dit met 500 liter water en voeg 3,5 liter (=10 x 0,35 ℓ) huishoudelike ammoniak by).

Die oorspronklike mengsel wat nou dubbel sterkte is, moet deeglik geroer word en deur die pype en spuitpunte vir ongeveer 1 minuut gespuit word.

Voeg dan water by die oorblywende mengsel tot die tenk vol is. Laat hierdie mengsel 15 minute in die tenk staan terwyl roering plaasvind. Na hierdie 15 minuut periode, spuit weer deur die pype en spuitpunte. Dreineer die tenk deeglik.

- d) Verwyder spuitpunte en siwwe en plaas in 'n emmer wat 40 ml huishoudelike ammoniak per 10 liter water bevat.
- e) Spoel die tenk weer deeglik uit met skoon water. Spuit ten minste een tiende van die tenk se kapasiteit deur die pype en spuitpunte.
- f) Spuit alle spoelwater veilig weg. Moet nie op sensitiewe gewasse, of op lande bedoel vir die plant van sensitiewe gewasse, spuit nie.

#### Voorsorgmaatreëls met skoonmaak van spuit

- Moet nie die dampe van die skoonmaakmiddel inasem nie.
- Vermy kontak met oë en vel.
- In geval van kontak, spoel onmiddellik oë uit en vel af met genoegsame water en verkry mediese raad.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Hou skoonmaakmiddels slegs in hulle oorspronklike houers.

### **BERGING EN Vernietiging**

#### Bergingstoestand

Berg weg van sonlig en vogtigheid, in oorspronklike houers wat dig toegemaak is, in 'n goed geventileerde gebied, weg van kos en voer agter slot en grendel. Vermy berging bo 35 °C.

#### Produk -en houervernietiging

Moet nie die houers gebruik vir enige ander doel nie, veral nie vir die stoor van kos en voer nie.

Vernietiging van oortollige produk en leë houers moet geskied deur 'n industriële verbrandingsoond wat vir chemikaliee goedgekeur is. Moet dit nie begrawe of spuit op enige gebied wat onder landboukundige gebruik is nie. Leë houers moet herhaaldelik met skoonwater uitgespoel word. Gooi hierna die spoeloplossing in die spuitenk.

**Die volgende handelsmerke en registrasies onder Wet 36 van 1947 word erken:**

Bentrol® Super	Reg Nr. L5167	Bayer Crop Science AG
Brominal® Super	Reg Nr. L5168	Bayer Crop Science AG
Brush-Off®	Reg Nr. L4535	Du Pont
Buctril® DS	Reg Nr. L3350	Bayer Crop Science AG
Demeton® EC	Reg Nr. L4852	Villa Crop Protection (Pty) Ltd
Folimat® 800 SL	Reg Nr. L2316	Bayer Crop Science AG
Hoelon® 36 EC	Reg Nr. L5568	Bayer Crop Science AG
Monitor® 75 WG	Reg Nr. L6003	Monsanto
Puma® S 120 EC	Reg Nr. L5787	Bayer Crop Science AG
Topik® 240 EC	Reg Nr. L4250	Syngenta AG

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