

PALLAS[®] 45 OD

HERBICIDE

Registration number / Registrasie nommer L8676 Act/Wet Nr./No. 36 of / van 1947

READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP CODE	B	HERBICIDE
<p>An oil dispersion herbicide for selective post-emergence control of certain weeds in wheat in the Western, Southern and Eastern Cape as well as control of common wild oats in irrigated areas of the summer rainfall region.</p>		<p>'n Olie dispersie onkruidodder vir selektiewe n-opkoms beheer van sekere onkruid in koring in die Wes-, Suid- en Oos-Kaap, sowel as beheer van wilde hawer in besproeiingsgebiede van die somerreënvalgebied.</p>

HAZARD STATEMENTS:



Causes skin irritation.
 May cause an allergic skin reaction.
 Causes serious eye irritation.
 Very toxic to aquatic life with long lasting effects.



PRECAUTIONARY STATEMENTS:

Avoid breathing dust/fume/gas/mist/vapours/spray.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF ON SKIN: Wash with plenty of water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Collect spillage.
 Dispose of contents/container in accordance with applicable regulations.

WARNING

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

Pyroxsulam (Triazolopyrimidine)45 g/l Pyroxsulam (Triasolopirimidien)

NET VOLUME l NETTO VOLUME

REGISTRATION HOLDER / REGISTRASIEHOUER
 CORTEVA AGRISCIENCE RSA (PTY) LTD / (EDMS) BPK
 REG NO 1991/003030/07
 Lakefield Office Park, Block A, 2nd Floor
 272 West Avenue, CENTURION, 0157 South Africa
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Batch No. Lot No.
 Date of Manufacture Datum van Vervaardiging

UN NO : 3082

Poisons Helpline: +27(0)861-555-777
 Local Emergency No: +27(0)82-895-0621 (SA only)
 24 Hour Emergency Tel No: +32-3-575-5555
 Information Hotline Tel No: +27(0)12 683-5700

WARNINGS

HAZARD STATEMENTS:

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Very toxic to aquatic life with long lasting effects.

Wheat - Allow 7 days between application and grazing by livestock.

Store in original container, in a cool, dry, and well-ventilated place.
Store away from food and feeds.
Keep out of reach of children, uninformed persons, and animals.
May cause eye and skin irritation.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

DISCLAIMER

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

PRECAUTIONARY STATEMENTS:

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Collect spillage.
Dispose of contents/container in accordance with applicable regulations.

Irritating to eyes and skin, wear a face shield when handling or mixing the product.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Avoid contact with skin. May cause sensitization by 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, face, and exposed skin.

Avoid drift or spray onto other crops, grazing, rivers, dams, any other static or flowing water body, and any areas not under treatment.

Clean applicator thoroughly after use and ensure that all traces of **PALLAS® 45 OD** are removed. (See Sprayer Clean-up section of this label).

Rinse empty container three times with a volume of water equal to a minimum of 10 % of that of the container. Add all container rinsing's 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 in a safe manner and do not re-use it for any other purpose.

RELEVANT SUBSTANCES:

COMPONENT	CAS No.	Concentration (% w/w)
Cloquintocet-mexyl	99607-70-2	9,25
Pyroxsulam (ISO)	422556-08-9	4,31
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not assigned	>- 70 - < 80
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8	>- 3 - < 10
Hydrocarbons, C10, aromatics, <1% naphthalene	1189173-42-9	>- 2,5 - < 3

FIRST AID MEASURES:

Inhalation:

Move person to fresh air. If a person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.). Call a poison control center or doctor for treatment advice.

Skin Contact:

Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.

Suitable emergency safety shower facility should be available in work area.

Eye contact:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Suitable emergency eye wash facility should be available in work area.

Ingestion:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

SYMPTOMS OF HUMAN OVER EXPOSURE:

May cause severe eye irritation and corneal injury.

Prolonged contact may cause moderate skin irritation with local redness.

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

RESISTANCE WARNINGS, PREVENTION AND MANAGEMENT

For resistance management **PALLAS® 45 OD** is a member of the triazolopyrimidene group of herbicides and has the ALS (Aceto lactate synthase) inhibition mode of action. HRAC classification is a Group Code B herbicide.

Any weed population may contain individuals naturally resistant to **PALLAS® 45 OD** and other Group Code B herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by **PALLAS® 45 OD** or any other Group Code B herbicide.

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. Alternate or tank mix with registered products from different herbicide group codes.
- ❖ Plan crop rotations to allow use of herbicides from different mode of action groups.
- ❖ Maintain herbicide use records for each field for future reference.
- ❖ 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.
- ❖ Always monitor efficacy shortly after herbicide application.

For further advice on the prevention of herbicide resistance contact your Corteva Agriscience™ representative.

USE RESTRICTIONS

Do not apply **PALLAS® 45 OD** to cereals under sown with legumes.

Do not apply **PALLAS® 45 OD** to wheat that is stressed by severe weather conditions, drought, waterlogging, nutrient deficiency, disease, insect damage or carry-over herbicide residues.

Temporary crop injury may occur after application of **PALLAS® 45 OD** but this does not result in reduced yield. Applications should be delayed if the crop is under stressed conditions, such as cold weather, heavy rain or when the risk of freezing temperatures is forecast within the next few days.

Apply the product strictly in accordance with the application directions.

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

PALLAS® 45 OD should only be applied ONCE per season.

MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES

Crops other than wheat can be very sensitive to low concentrations of **PALLAS® 45 OD** in the soil. Therefore, careful consideration should be given to crop rotation plans prior to using **PALLAS® 45 OD**.

The minimum recropping interval is the minimum time that must elapse before planting other subsequent crops after the last application of **PALLAS® 45 OD**. The intervals specified below will only be valid if favourable soil moisture and temperature conditions prevail to promote more rapid breakdown of **PALLAS® 45 OD** by microbial activity. Abnormally dry and/or cold conditions may result in slower degradation.

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

Cereals (wheat, barley, oats, rye, and triticale), lupins and canola can be sown or planted in the season following the application of **PALLAS® 45 OD**, after a waiting period of 9 months has lapsed.

For all other crops a replanting interval of at least 12 months must be observed preceded by a test planting. Test strips of the desired rotational crop should be planted and monitored during germination and emergence for any abnormal growth to determine if the rotational crop can be grown successfully.

CROP FAILURE

In the event of crop failure, after a crop has been treated with **PALLAS® 45 OD**, it is possible to plant wheat one month after the application. In this case soil must be ploughed before planting a succeeding crop.

WEEDS NORMALLY CONTROLLED:

WITH PALLAS® 45 OD:	
<i>Avena fatua</i>	common wild oats
<i>Bromus diandrus</i> ***	ripgut brome
<i>Bromus japonicus</i> ***	Japanese brome
<i>Emex australis</i>	emex dubbeltjie
<i>Phalaris minor</i> **	little seeded canary grass
<i>Raphanus raphanistrum</i> ***	wild radish
**Variable control of <i>Phalaris minor</i> may be expected.	
***Where ALS resistant <i>Bromus spp.</i> and/or ALS resistant <i>Raphanus raphanistrum</i> occur, poor control can be expected.	

WITH PALLAS® 45 OD + DERBY* 175 SC:	
<i>Anagallis arvensis</i>	pimpernel
<i>Arctotheca calendula</i>	Cape marigold
<i>Avena fatua</i>	common wild oats
<i>Bromus diandrus</i> ***	ripgut brome
<i>Bromus japonicus</i> ***	Japanese brome
<i>Emex australis</i>	emex dubbeltjie
<i>Lupinus angustifolius</i>	volunteer lupins
<i>Malva parviflora</i>	small mallow
<i>Phalaris minor</i> **	little seeded canary grass
<i>Polygonum aviculare</i>	prostrate knotweed
<i>Raphanus raphanistrum</i> ***	wild radish
<i>Medicago spp./Trifolium spp.</i>	Clovers
<i>Urtica urens</i>	bush stinging nettle
** Variable control of <i>Phalaris minor</i> may be expected.	
***Where ALS resistant <i>Raphanus raphanistrum</i> and/or ALS resistant <i>Bromus spp.</i> occur, poor control can be expected. The addition of 1,0 l/ha of MCPA 400 SL to the mixture at the correct wheat stage may improve control of <i>Raphanus raphanistrum</i> .	

NOTES:

1. As detailed in the lists above **PALLAS® 45 OD** controls certain weed species alone, or in tank-mixtures with complementary products as indicated. Other annual weed species that were not present during the development trials with the products, may possibly also be controlled to a certain degree. The registration holder does not accept any responsibility for weeds not listed.
2. **PALLAS® 45 OD** spray applications alone or in tank mixtures will not control weeds which have not yet emerged at the time of spraying.

DIRECTIONS FOR USE: Use only as directed.

GENERAL INFORMATION

PALLAS® 45 OD is an oil dispersion herbicide for selective post-emergence control of certain weeds as listed in the Western, Southern and Eastern Cape regions, as well as control of common wild oats in irrigated areas of the summer rainfall region.

For maximum weed control or suppression apply **PALLAS® 45 OD** or (**PALLAS® 45 OD** + **DERBY* 175 SC**) 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 and/or other environmental stress may be less susceptible.

PALLAS® 45 OD 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 **PALLAS® 45 OD** may, under certain circumstances, cause some stunting and/or yellowing of the lower leaves. This will however not impact on the yield.

Optimum application temperature is between 8 – 25 °C, but treatments can be done at temperatures as low as 5 °C.

Weed control may take longer under colder conditions but final control is not affected. Avoid applying **PALLAS® 45 OD** at temperatures below 5 °C or when nighttime temperatures are below freezing.

PALLAS® 45 OD can be used from 2 – 3 leaf stage of the crop until the 2 nodes stage. To obtain the best results, spray when target weeds are actively growing. Control is influenced by weed size, with smaller stages more easily controlled. Optimum control of annual grasses and of broadleaf weeds is up to the 2 – 4 leaf stage of the weeds.

PALLAS® 45 OD herbicide spray techniques should ensure thorough coverage of weeds to achieve effective control. Weed plants screened by a dense stand of wheat and/or other weeds causing inhibited spray coverage may be poorly controlled, consider this aspect when deciding on spray application timing. Weeds germinating after application of **PALLAS® 45 OD** will not be controlled as the product has no strong soil residual effect.

On lands with high grass weed populations a suitable “burndown” herbicide treatment prior to planting is recommended to reduce the later in-crop weed pressure and competition. Use of short-growing wheat cultivars with good early vigour can also help to shade out grass weeds. The degree of efficacy of a **PALLAS® 45 OD** application may then increase with a less dense weed pressure.

COMPATIBILITY

PALLAS® 45 OD in combination with an adjuvant and ONE of the remedies as listed below, is compatible in a tank mixture and only for the indicated weed or insect problem.

BROADLEAF WEEDS

To increase the broadleaf spectrum controlled (see lists), **PALLAS® 45 OD** may be tank mixed with DERBY* 175 SC or MCPA 400 SL.

INSECTS

PALLAS® 45 OD is compatible with dimethoate 400 EC (containing 400 g dimethoate /l).

TRACE ELEMENTS

PALLAS® 45 OD is compatible when used separately with one of the trace elements manganese sulphates (MnSO₄), zinc oxide (ZnO₂) or copper oxychloride. Under no circumstances should multiple trace elements, or foliar feed formulations containing more than 2 trace elements, be tank mixed with **PALLAS® 45 OD**.

- NOTE:
- (i) **WHERE ONE OF THE ABOVE PRODUCTS IS USED IN A TANK MIXTURE WITH PALLAS® 45 OD, 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 Corteva Agriscience™ 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, multi-component foliar feeds, plant growth regulators or any other chemicals not recommended on this label.

DO NOT add any product (herbicide/ insecticide/ trace element/ adjuvant or buffer) to the mixture that will lower the spray solution pH below a value of 6.0.

Consult your local representative for details.

MIXING INSTRUCTIONS

Shake container well before opening.

Pre-mix the required amount of **PALLAS® 45 OD** with a small amount of water and stir until thoroughly dispersed. Half fill the spray tank with clean water to prevent nozzle blockage. Commence agitation and add the concentrated pre-mixed **PALLAS® 45 OD** to the tank through a sieve if available. Continue thorough agitation while topping up the tank with water and at all times before and during spraying.

Prepare only sufficient spray mixture for immediate use. Do not keep the spray mixture for long periods, such as overnight, as the effectiveness may be reduced due to product degradation.

For aerial application, the full spray volume should be pre-mixed and well stirred before adding to the spray tank.

If a mixture is required with other herbicides, remedies or adjuvants add this after **PALLAS® 45 OD** while still agitating and topping up with water to ensure good dispersion and dissolution of the formulation in water.

GROUND APPLICATION

PALLAS® 45 OD 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 irrigation or other areas where the stand of the crop and/or weeds are dense a minimum of 200 litres water per hectare should be used. For an air-driven sprayer use 75 - 100 litres water per hectare. Ensure that weeds are uniformly covered by the spray solution.

AERIAL APPLICATION

Aerial application of **PALLAS® 45 OD** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (The Aerial Application of Agricultural Remedies). 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 cm² 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	RATE/HA	REMARKS
GROUND AND AERIAL APPLICATION		Ensure that all information under "DIRECTIONS FOR USE" is adhered to.
WHEAT Western, Southern and Eastern Cape regions and irrigated areas of the Summer rainfall region.	440 ml PALLAS® 45 OD + Adjuvant (see FOOTNOTE to this Table)	Apply between 2 - 3 leaf stage of the wheat crop until the 2 nodes stage when the weeds are in the seedling stage (2 - 4 leaf). PALLAS® 45 OD herbicide spray techniques should ensure thorough coverage of weeds to achieve effective control. Weed plants screened by a dense stand of wheat and/or other weeds causing inhibited spray coverage may be poorly controlled, consider this aspect when deciding on spray application timing. Weeds germinating after application of PALLAS® 45 OD will not be controlled as the product has no strong soil residual effect.
WHEAT Western, Southern and Eastern Cape regions	440 ml PALLAS® 45 OD + 50 ml DERBY 175 SC + Adjuvant (see FOOTNOTE to this table)	
NOTE: ADJUVANTS: The activity of PALLAS® 45 OD is enhanced by the addition of recommended adjuvants and this increases the consistency of control of susceptible weeds across varied environmental conditions. Adjuvants will also improve the efficacy of all weeds that are moderately susceptible. Adjuvants are particularly beneficial under dry conditions. All applications of PALLAS® 45 OD must be made together in tank mix with a suitable adjuvant registered for use in wheat. Use the rate of adjuvant recommended on the specific adjuvant label.		

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

SPRAYER CLEANUP

To prevent any damage to subsequent crops, other than wheat, all traces of **PALLAS® 45 OD** 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.

Local emergency No: +27(0)82-895-0621 (SA only)
24 Hour emergency Tel. No.: +32-3-575-5555
Information hotline Tel. No.: +27(0)12 683-5700

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WAARSKUWINGS

RISIKOVERKLARINGS:

Kan vel irritasie veroorsaak.
Kan dalk 'n allergiese reaksie op die vel veroorsaak.
Kan ernstige oog irritasie veroorsaak.
Uiters giftig vir akwatiese flora en fauna, met langdurige effek.

Koring - Laat 7 dae verloop tussen toediening en beweiding deur vee.

Berg in oorspronklike houer, in 'n koel, droë, goed geventileerde plek.
Berg weg van voedsel en voer.
Hou buite bereik van kinders, oningeligte persone en diere.
Mag oog en vel irritasie veroorsaak.
Uiters giftig vir water organismes, mag langtermyn effekte in die water gebied veroorsaak.

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

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

VRYWARING

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.

VOORSORGMAATREËLS

VOORSORG VERKLARINGS:

Moenie gifstof/dampe/gas/walms/wasem/sproei inasem nie.
Dra beskermende handskoene, beskermende klerasie, oog- en gesig beskerming.
INDIEN DIT OP VEL BELAND: Was met 'n voldoende hoeveelheid water.
INDIEN DIT IN DIE Oë BELAND: Spoel oë versigtig uit met water vir paar minute. Verwyder kontaklense, indien gedra word en maklik is om te verwyder. Hou aan met spoel.
Versamel verspilde produk.
Vernietig die houer en die inhoud van die houer in ooreenstemming met toepaslike regulasies.

Moet nie die spuitnewel inasem nie, en sorg dat spuitnewel nie in kontak met oë kom nie.
Mag velirritasie en sensitisering veroorsaak indien in aanraking kom met vel. Vermy kontak met die vel en dra beskermende klere en gesigskerm.
Mag oog irritasie veroorsaak, dra 'n gesigskerm wanneer die produk gehanteer of vermeng word. In geval van kontak met oë, spoel oë onmiddellik uit met heelwat water en verkry mediese hulp.
Was besoedelde klere met seep en water na gebruik.

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

Vermyn spuitnewel op ander gewasse, weiveld, riviere, damme, enige ander statiese of vloeiende waterelement en enige plekke wat nie behandel word nie.

Maak toedieningsapparaat skoon na gebruik en maak seker dat alle tekens van **PALLAS® 45 OD** verwyder is. (Lees „Skoonmaak van spuit“ gedeelte van hierdie etiket.)

Spoel leë houers drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houer. Gooi alle spoelwaters van die houer 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 houers op 'n veilige manier en moet nie vir enige ander doel hergebruik nie.

RELEVANTE STOWWE:

KOMPONENT	CAS No.	Konsentraat (% w/w)
Cloquintocet-mexyl	99607-70-2	9,25
Pyroxsulam (ISO)	422556-08-9	4,31
Koolwaterstowwe, C10-C13, aromaten, <1% naftaleen	Not assigned	>- 70 - < 80
Benseensulfonsuur, mono-C11-13-vertakte alkiel-derivate, kalsiumsoute	68953-96-8	>- 3 - < 10
Koolwaterstowwe, C10, aromaten, <1% naftaleen	1189173-42-9	>- 2,5 - < 3

NOODHULPBEHANDELING:

Nul per mond en moet nie braking induseer indien pasiënt bewusteloos is of stuiptrekkings kry nie.

Inname:

Raadpleeg onmiddellik 'n gifbeheersentrum of geneesheer vir behandelingsadvies. Laat persoon 'n teug water uit glas neem, indien pasiënt kan sluk. Moenie braking induseer tensy aanbeveel is by die gifbeheersentrum of geneesheer nie. Moet geensins enigets per mond aan 'n bewustelose persoon gee nie.

Inaseming:

Verskuif persoon na vars lug toe. Indien persoon nie asemhaal nie, ontbied 'n noodreaksie span of ambulans. Pas kunsmatige asemhaling toe; indien mond-tot-mond, gebruik redder beskerming (sak masker, ens.). Raadpleeg 'n gifbeheersentrum of geneesheer vir behandelingsadvies

Oogkontak:

Hou oë oop en spoel stadig en sagkens met water vir 15-20 minute. Verwyder kontaklense, indien gedra word, na aanvanklike 5 minute en spoel vir nog etlike minute. Raadpleeg 'n gifbeheersentrum of geneesheer vir behandelingsadvies

'n Geskikte nood oog was fasiliteit behoort by die werksarea beskikbaar te wees.

Velkontak:

Verwyder besoedelde klere. Was vel met seep en genoeg water vir 15-20 minute. Skakel 'n gifsentrum of geneesheer vir behandelingsadvies.

Was besoedelde klere voor herverbruik. Skoene en ander leer items wat nie ontsmet kan word nie, moet behoorlik weggedoen word.

Geskikte nood veiligheid stort fasiliteit behoort beskikbaar te wees in werksarea.

SIMPTOME VAN ERGE MENSLIKE BLOOTSTELLING

Mag ernstige oogirritasie en horingvliesskade tot gevolg hê.

Langdurige kontak mag gematigde velirritasie met plaaslike/algehele rooiheid veroorsaak.

Langdurige velkontak sal onwaarskynlik absorpsie van skadelike hoeveelhede tot gevolg hê.

WEERSTANDSWAARSKUWINGS, -VOORKOMING EN -BESTUUR

Vir weestandbestuur is **PALLAS® 45 OD** deel van die triasolopirimidien groep van onkruidodders wat die ALS (Asetolaktaat sintase) inhiberingsmetode van werking het. HRAC klassifikasie is 'n groepkode B onkruidodder.

Enige onkruid populasie mag sommige individue bevat wat natuurlik weerstandbiedend is teen **PALLAS® 45 OD**, asook ander groepkode B onkruidodders. Indien onkruidodders met dieselfde werkingswyse herhaaldelik gebruik word kan hierdie weerstandbiedende individue uiteindelik die onkruidpopulasie domineer. Hierdie weerstandbiedende onkruid sal nie deur **PALLAS® 45 OD** of enige ander groepkode B onkruidodder 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.
- Vermyn die herhaalde gebruik van onkruidodders met dieselfde metode van werking. Wissel af met, of maak tenkengesels met geregistreerde produkte van verskillende onkruidodder groepkodes.
- Beplan gewasrotasie sodat onkruidodders met verskillende metodes van werking gebruik word.
- Hou rekord van onkruidoddergebruik van elke land vir toekomstige gebruik.
- 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.
- Monitor altyd effektiwiteit verkry kort na onkruidodertoediening.

Kontak u produk vervaardiger of verspreider verteenwoordiger vir verdere advies rakende die voorkoming van onkruidodder weerstandbiedendheid.

GEBRUIKSBEPERKINGS

Skud die houer goed voordat dit oopgemaak word.

Moet nie **PALLAS® 45 OD** toedien op graan ondersaai met peulgewasse nie.

Moet nie **PALLAS® 45 OD** toedien op koring wat onder stremming verkeer a.g.v. strawwe weerstoestande, voedingselementtekorte, droogte, versuiping, siekte, insekbeskadijng of onkruidodderresidue oordraging nie.

Tydlike gewasskade mag na toediening van **PALLAS® 45 OD** voorkom, maar sal nie tot oesverlaging lei nie. Toedienings moet uitgestel word indien die gewas onder strestoestande soos koue weer of swaar reën verkeer, of wanneer die risiko van ysige temperature gedurende die volgende paar dae voorspel word.

Dien die produk streng volgens die gebruiksaanwysings toe.

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

PALLAS® 45 OD moet slegs EEN maal per seisoen toegedien word.

MINIMUM WAGPERIODES EN WISSELBOU-AANWYSINGS

Gewasse anders as koring kan baie sensitief wees teenoor lae konsentrasies **PALLAS® 45 OD** in die grond. Deeglike oorweging moet dus gegee word aan wisselboubeplanning alvorens **PALLAS® 45 OD** gebruik word.

Die minimum wagperiode dui op die minimum tydsverloop vanaf die laaste toediening van **PALLAS® 45 OD** totdat 'n opvolggewas aangeplant word.

Die intervalle hieronder gespesifiseer sal slegs geldig wees indien gunstige grondvog- en temperatuurtoestande, wat versnelde afbraak van **PALLAS® 45 OD** deur mikrobiële aktiwiteit bevorder, sou heers. Abnormale droë en/of koue toestande mag stadiger afbraak teweegbring.

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

Graantipes (koring, gars, hawer, rog en korog), lupiene en kanola kan die daaropvolgende seisoen, na die toediening van **PALLAS™ 45 OD**, gesaai of geplant word, nadat 'n wagperiode van 9 maande verloop het.

Vir alle ander gewasse word 'n wagperiode van ten minste 12 maande aanbeveel, voorafgegaan deur 'n toetsplanting. Toetsstroke van die verlangde opvolggewas moet aangeplant word en tydens ontkieming en opkoms gekontroleer word vir enige abnormale groei om te bepaal of die opvolggewas suksesvol verbou kan word.

ONKRUIDE NORMAALWEG BEHEER

MET PALLAS® 45 OD:

<i>Avena fatua</i>	Gewone wilde hawer
<i>Bromus diandrus</i> ***	Predikantsluis
<i>Bromus japonicus</i> ***	Hooigras
<i>Emex australis</i>	Kaapse dubbeltjie
<i>Phalaris minor</i> **	Kleinsaadkanariegras
<i>Raphanus raphanistrum</i>	Ramenas

**Wisselvallige beheer van *Phalaris minor* kan verwag word.

***Waar ALS bestande *Bromus* spp. en/of ALS bestande *Raphanus raphanistrum* voorkom, mag swak beheer verwag word.

MET PALLAS® 45 OD + DERBY* 175 SC:

<i>Anagallis arvensis</i>	Blouselblommetjie
<i>Arctotheca calendula</i>	Gousblom
<i>Avena fatua</i>	Gewone wilde hawer
<i>Bromus diandrus</i> ***	Predikantsluis
<i>Bromus japonicas</i> ***	Hooigras
<i>Emex australis</i>	Kaapse dubbeltjie
<i>Lupinus angustifolius</i>	Opslag lupiene
<i>Malva parviflora</i>	Kiesieblaar
<i>Phalaris minor</i> **	Kleinsaadkanariegras
<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

**Wisselvallige beheer van *Phalaris minor* kan ver wag word.

***Waar ALS bestande *Raphanus raphanistrum* en/of ALS bestande *Bromus* spp. voorkom, kan swak beheer ver wag word. Die byvoeging van 1,0 l/ha MCPA 400 SL tot die spuitmengsel tydens die korrekte koringgroei stadium mag tot verbeterde beheer van *Raphanus raphanistrum* lei.

NOTAS:

1. Soos gelys hierbo, beheer **PALLAS® 45 OD** sekere onkruidspesies alleen of in tenkmengsels soos aangedui. Ander eenjarige onkruid wat nie tydens die ontwikkelingsproewe met die middels voorgekom het nie, kan ook moontlik in meerdere of mindere mate beheer word. Die registrasiehouer aanvaar egter geen aanspreeklikheid ten opsigte van ongelyste onkruid nie.
2. **PALLAS® 45 OD** bespuitings alleen of in tenkmengsels, sal nie onkruid beheer wat nog nie ten tye van die bespuiting opgekom het nie.

GEBRUIKSAANWYSINGS : Gebruik slegs soos aangedui**ALGEMENE INLIGTING**

PALLAS® 45 OD is 'n olie dispersie onkruid doder vir die selektiewe na-opkom beheer van sekere onkruid, soos gelys, in die Wes-, Suid- en Oos-Kaap, sowel as beheer van Wilde Hawer in besproeiingsgebiede van die Somerreëvalgebied.

Om die maksimum beheer of onderdrukking van onkruid te verkry, dien **PALLAS® 45 OD** of (**PALLAS® 45 OD + DERBY* 175 SC**) op jong onkruid in hul saailing stadium toe voor hulle verby die 4 blaar stadium is. Onkruid moet aktief onder vogtige toestande groei. Onkruid wat onder droogtestremming en/of ander omgewingstremming verkeer mag minder gevoelig wees.

Alhoewel simptome nie voor 1 tot 3 weke sigbaar mag wees nie, kan die groei van gevoelige onkruid vinnig deur **PALLAS® 45 OD** gestrem word afhangende van groeistoestand en onkruidgevoeligheid.

PALLAS® 45 OD mag, onder sekere omstandighede, 'n groeistremming en/of vergelying van die onderste blare van koring veroorsaak. Dit sal egter geen effek op die opbrengs hê nie.

Optimale toedieningstemperatuur is tussen 8 – 25 °C, toedienings kan egter teen temperature so laag as 5 °C geskied.

Onkruidbeheer mag langer neem onder koeler toestande maar finale beheer word nie beïnvloed nie. Toediening van **PALLAS® 45 OD** teen temperature onder 5 °C, of wanneer nagtemperatuur benede vriespunt is, moet vermy word.

PALLAS® 45 OD kan vanaf die 2-3 blaarstadium van die gewas tot die tweeknode stadium gebruik word. Om die beste resultate te verkry, spuit tydens aktiewe groei van die teiken onkruid. Beheer word deur onkruidgrootte beïnvloed, optimale beheer van eenjarige grasse en breëblaaronkruid word tot en met die 2 – 4 blaarstadium van die onkruid verwag.

PALLAS® 45 OD onkruiddoder spuitegnieke moet deeglike bedekking van onkruid verseker om effektiewe beheer te verkry. Waar onkruidplante deur 'n digte stand koring en/of ander onkruid afgeskerm word kan dit onvoldoende sproeibedekking veroorsaak met daaropvolgende swak onkruidbeheer, neem hierdie aspek in ag wanneer daar op spuitoedieningstyd besluit word. Onkruid wat na die toediening van **PALLAS® 45 OD** ontkiem sal nie beheer word nie, aangesien die produk oor geen sterk residuele effek beskik nie.

Op lande met hoë grasonkruidpopulasies word 'n geskikte voorplantbespuiting (burndown) aanbeveel om latere in-gewas onkruiddruk en kompetisie te verlig. Gebruik van kort groei koringkultivars met goeie vroeë groeikrag kan ook help om grasonkruid te oorskadu. Die mate van effektiwiteit van 'n **PALLAS® 45 OD** toediening mag dan ook verhoog tesame met die verminderde onkruiddruk.

VERENIGBAARHEID

PALLAS® 45 OD, in kombinasie met 'n bymiddel asook EEN van die middels soos hieronder gelys, is verenigbaar in 'n tenkmengsel en alleenlik vir die onkruid of insekprobleem soos aangedui.

BREËBLAARONKRUIDE

Om die breëblaar onkruidspektrum te vergroot (sien lysie), kan **PALLAS® 45 OD** met DERBY* 175 SC of MCPA 400 SL in tenkmengsels gebruik word.

INSEKTE

PALLAS® 45 OD is mengbaar met dimetoaat 400 EC (bevat 400 g dimetoaat/ℓ).

SPOORELEMENTE

PALLAS® 45 OD is mengbaar wanneer afsonderlik met een van die spoorelemente mangaansulfaat (MnSO₄), sinkoksied (ZnO₂) en koperoksichloried [Cu₂(OH)₃CL] gebruik word. Onder geen omstandighede moet veelvoudige spoorelemente, of blaarvoedingformulasies wat meer as 2 spoorelemente bevat, in tenkmengsel met **PALLAS® 45 OD** gebruik word nie.

NOTA : (i) **WAAR EEN VAN DIE BOGENOEMDE PRODUKTE MET PALLAS® 45 OD IN 'N TENKMENGSSEL GEBRUIK WORD MOET VOLLEDIGE INLIGTING VAN DIE BETROKKE ETIKET VERKRY EN NAGEVOLG WORD.**

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

- MOET NIE meng met onkruiddoders, insekdoders, swamdoders, kunsmis, multikomponent blaarvoedings, plantgroeiregulante of enige ander chemikalieë wat nie op hierdie etiket aanbeveel is nie.
- Moet nie enige produk (onkruiddoder/insekdoder/spoorelement/bymiddel/buffer) wat die pH van die spuitoplossing tot onder 'n pH-waarde van 6.0 sal verlaag, gebruik nie.
- Vir verdere inligting raadpleeg u plaaslike verteenwoordiger.

MENGINSTRUKSIES

Skud houer goed voordat oopgemaak word.

PALLAS® 45 OD moet vooraf met 'n klein hoeveelheid water gemeng word en geroer word totdat dit deeglik gedispergeer is.

Vul die spuittenk tot halfvol met skoon water om spuitpuntverstopping te vermy.

Begin die roering en voeg die voorafvermengde **PALLAS® 45 OD** tot die tenk by, deur 'n sif indien beskikbaar.

Hou aan met deeglike roering terwyl die tenk vol water gemaak word en te alle tye voor en gedurende toediening.

Berei net voldoende spuitmengsel vir onmiddellike gebruik voor. Moet nie die spuitmengsel vir lang periodes, soos oornag, hou nie want die effektiwiteit daarvan mag deur produkafbraak verminder word.

Vir lugtoediening moet die volle spuitvolume vooraf vermeng word en deeglik geroer word voordat dit tot die spuittenk bygevoeg word.

Indien 'n mengsel met ander onkruidodders, landboumiddels of bymiddel benodig word, moet dit na die **PALLAS® 45 OD** bygevoeg word, terwyl steeds geroer word en die tenk vol water gemaak word, om goeie dispersie en oplossing van die formulاسie in water te verseker.

GRONDTOEDIENING

PALLAS® 45 OD 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 besproeiings- of ander gebiede waar die plantestand van die gewas en/of onkruid dig is moet 'n minimum van 200 liter water per hektaar gebruik word. Vir 'n kousbalk, gebruik 75 - 100 liter water per hektaar. Sorg dat die onkruid deeglik deur die spuitoplossing bedek word.

LUGTOEDIENING

PALLAS® 45 OD kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 10118 (The Aerial Application of Agricultural Remedies) 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 cm² 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 binneste 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 swaaihigrometer, 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 die 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	DOSIS/HA	AANMERKINGS
GROND- EN LUGTOEDIENING		Verseker dat alle inligting onder "GEBRUIKSAANWYSINGS" gevolg word. Dien toe tussen die 2 - 3 blaarstadium tot die tweeknode stadium van koringgewas en wanneer die onkruid in die saailingstadium is (2 - 4 blaar).
KORING Wes-, Suid- en Oos-Kaap, en in besproeiingsgebiede van die Somerreëvalgebied.	440 ml PALLAS® 45 OD + Bymiddel (sien VOETNOTA tot hierdie tabel)	PALLAS® 45 OD onkruidodder spuitegnieke moet deeglike bedekking van onkruid verseker om effektiewe beheer te verkry. Waar onkruidplante deur 'n digte stand koring en/of ander onkruid afgeskerm word kan dit onvoldoende sproeibedekking veroorsaak met daaropvolgende swak onkruidbeheer, neem hierdie aspek in ag wanneer daar op spuittoedieningstyd besluit word. Onkruid wat na die toediening van PALLAS® 45 OD ontkiem sal nie beheer word nie, aangesien die produk oor geen sterk residuele effek beskik nie.
KORING Wes-, Suid- en Oos-Kaap	440 ml PALLAS® 45 OD + 50 ml DERBY 175 SC + Bymiddel (sien VOETNOTA tot hierdie tabel)	
NOTA:		
BYMIDDELS: Die aktiwiteit van PALLAS® 45 OD word verhoog deur die byvoeging van aanbevole bymiddels. Dit lewer meer konstante beheer van vatbare onkruid onder verskeie omgewingstoestande. Bymiddels sal ook effektiwiteit teen alle onkruid wat matig vatbaar is verbeter. Bymiddels is veral voordelig onder droë toestande. Alle toedienings van PALLAS® 45 OD moet in tenkmengsel saam met 'n geskikte bymiddel geregistreer vir gebruik in koring gemaak word. Gebruik die bymiddel dosis soos op die spesifieke bymiddel etiket aanbeveel word.		

Graad van beheer verkry en die tydperk van effektiwiteit hang af van die onkruidspesie, onkruidgrootte, spuitnewel bedekking, gewaskompetisie en groeitoestande gedurende en na die toediening.

SKOONMAAK VAN SPUIT

Om daaropvolgende skade aan gewasse anders as koring te vermy, moet alle spore van **PALLAS® 45 OD** direk na toediening, deeglik vanuit die meng- en spuittoerusting verwyder word. Gaan soos volg te werk :

- a) Dreineer die spuitsisteem onmiddellik na bespuiting van gewas. Was enige kontaminasie van die buitekant van die tenk af met skoon water.
- b) 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.
- c) 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 advies.
- 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 oorsponklike houers wat dig toegemaak is, in 'n goed geventileerde gebied, weg van kos en voer agter slot en grendel. Vermoed 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 chemikalie 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 spuitte.

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