

## SAFETY PRECAUTIONS

### Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

- Operators must wear suitable protective clothing (coveralls) and suitable protective gloves when handling the concentrate.
- Operators must wear suitable protective gloves when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

DO NOT APPLY via hand held equipment.

### Consumer protection:

NOT TO BE USED ON FOOD CROPS.

### Environmental protection:

Livestock must be kept out of treated areas for at least 7 days following treatment. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'. DO NOT CONTAMINATE WATER with the product or its container. (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads.)

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with the LERAP requirement.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with HSE's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

### Storage and disposal:

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

KEEP AWAY from food, drink and animal feeding stuffs.

KEEP OUT of reach of children.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.



# PAS™

## HERBICIDE

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GROUP 0 HERBICIDES

Product Registration Number: MAPP 17772

An emulsifiable concentrate containing 150 g ae/litre (14.68% w/w) fluroxypyr (present as 216 g/litre of fluroxypyr-meptyl) and 150 g ae/litre (14.68% w/w) triclopyr (present as 209 g/litre triclopyr butyl).

A foliar acting herbicide for the control of DOCKS in ESTABLISHED GRASSLAND

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.**

**PROTECT FROM FROST.**

This label is compliant with the CPA Voluntary Initiative Guidance



### Authorisation Holder:

**Corteva Agriscience UK Limited**

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE

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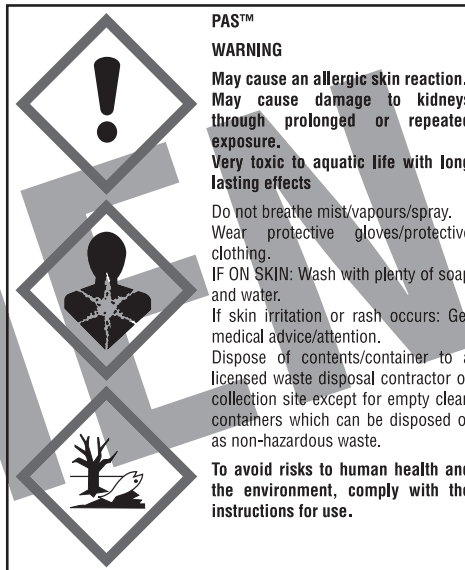
24 Hour Emergency Telephone Number: +44 (0) 161 884 1235

For Technical Enquiries

Call: 0800 689 8899 or email [ukhotline@corvea.com](mailto:ukhotline@corvea.com)

National Poisons Information Service : 111

NET CONTENT : 2 LITRES e



PAS™

### WARNING

**May cause an allergic skin reaction. May cause damage to kidneys through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects**

Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container to a licensed waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**To avoid risks to human health and the environment, comply with the instructions for use.**

### IMPORTANT INFORMATION.

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

**Crop/Situation:** Grassland

**Maximum Individual Dose:** 2.0 litres product per hectare

**Maximum Total Dose:** 2.0 litres product/hectare/annum

**Latest Time of Application:** 7 days before grazing or harvest

### Other Specific Restrictions:

This product must not be applied via hand-held equipment. Livestock must be kept out of treated areas for at least 7 days following treatment. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

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## DIRECTIONS FOR USE

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

## NOTES

Grass and weeds must be actively growing to ensure good weed control and minimal check to the grass.

Do not spray in drought, very hot or very cold weather.

Control may be reduced if rain falls within 2 hours of application.

Do not roll or harrow grass for 10 days before or 7 days after application.

Clover will be killed or severely checked by application of PAS.

DO NOT sow kale, swedes, turnips or grass mixtures containing clover by direct drilling or minimum cultivation techniques within 6 weeks of applying PAS.

PAS is safe to established grassland. Very occasionally some yellowing of the sward may occur; this is transient and quickly outgrown.

Occasionally, e.g. in hot conditions, vapour drift may occur, making it particularly important to assess the risk to neighbouring vegetation.

Take care to avoid drift onto susceptible crops, non-target plants or waterways. Do not apply directly to, or allow spray drift to come into contact with agricultural or horticultural crops, amenity plantings, gardens, ponds, lakes or watercourses.

Wash out spray equipment thoroughly with water and detergent immediately after use. Traces of PAS could cause harm to susceptible crops sprayed later. DO NOT use on crops intended for seed production.

Treated crops should not be re-entered before spray deposits on leaf surfaces have completely dried.

### Grazing Interval

Exclude livestock during treatment and do not allow livestock to graze treated grassland for at least 7 days following treatment. Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable with higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visual sign of the dead weed. Do not include treated ragwort in hay or silage crops.

## GENERAL INFORMATION

PAS is a foliar acting herbicide for the control of broad-leaved dock and curled dock in established grassland.

## ESTABLISHED GRASSLAND

### WEEDS CONTROLLED

PAS is recommended for the control of broad-leaved dock and curled dock, in the rosette stage up to 200 mm high or across.

Weed	Rate of Use litres product/ha	Optimum timing of application
Curled dock Broad-leaved dock	1.0 + 1.0 Spring + Autumn	At the rosette stage up to 200 mm tall or across
Broad-leaved dock Curled dock	2.0	At the rosette stage up to 200 mm tall or across

### RATE OF USE AND TIMING

Apply PAS at 2.0 litres/ha in 300 to 400 litres of water as an overall treatment in the autumn or spring for the control of docks. Alternatively PAS may be applied in a programme of 1.0 litre/ha in the spring followed by a second application of 1.0 litre/ha in the autumn for the control of docks.

Use the higher volume of water where the weeds are large at the time of application and where the grass is dense.

Application timing of PAS is crucial for good control and must be made when the weeds and grass are actively growing to ensure good weed control and minimal check to the grass. Docks should be treated in the rosette stage and within the size given above.

It is important that there is sufficient leaf area for uptake of the herbicide. This is particularly true on well-established docks which will have an extensive tap root, but which early in the spring or soon after cutting may only have a few small leaves.

If the grass (and hence the weeds) has been cut for conservation hay or silage, or has been grazed, leave for 2 to 3 weeks to allow sufficient regrowth to occur before spraying.

To allow maximum translocation of PAS to the roots do not cut grass for 28 days after application.

On large well-established docks and where there is a large reservoir of seed in the soil a further control programme in the following year may be required.

## MIXING

Fill the spray tank half full with water and add the required amount of PAS. Continue filling with water and maintain agitation during filling, while spraying and during any stoppages. Mix up only sufficient spray volume for the area to be treated and use the spray immediately.

## SPRAY QUALITY

Apply PAS as a MEDIUM spray as defined by the BCPC system.

## COMPANY ADVISORY INFORMATION

The following information does not form part of the product label under the UK plant protection products regulations and provides additional advice on product use at the discretion of Corteva Agriscience.

### Trademark Acknowledgement

PAS is a trademark of Corteva Agriscience and its affiliated companies. All other brand names used in this document are trademarks of other manufacturers in which proprietary rights may exist.

### Corteva Agriscience Conditions of Supply

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



<https://www.corteva.co.uk/content/dam/dpagco/corteva/eu/gb/en/files/sds/PAS-SDS.pdf>

Alternatively contact your supplier

## SAFETY PRECAUTIONS

### Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate. WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

DO NOT APPLY by hand-held equipment.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

AVOID CONTACT WITH EYES.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

### Environmental protection:

Livestock must be kept out of treated areas for at least 7 days following treatment. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/ Avoid contamination via drains from yards and roads).

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

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### Storage and disposal:

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

This label is compliant with the CPA Voluntary Initiative Guidance.



# TOR™

## HERBICIDE

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GROUP 0 HERBICIDES

Product Registration Number: MAPP 19958

A soluble concentrate containing 200 g/litre (17.4% w/w) clopyralid (present as 305 g/litre of clopyralid as the triethylammonium salt) and 200 g/litre (17.4% w/w) triclopyr (present as 279 g/litre triclopyr as the triethylammonium salt).

A foliar acting herbicide for the control of CREEPING THISTLE in ESTABLISHED GRASSLAND FOR GRAZING ONLY.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET  
PROTECT FROM FROST**

### Authorisation Holder:

**Corteva Agriscience UK Limited**

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE

Telephone: (01462) 457272

24 Hour Emergency Telephone Number: +44 (0) 161 884 1235

For Technical Enquiries Call: 0800 689 8899 or email [ukhotline@corvea.com](mailto:ukhotline@corvea.com)

National Poisons Information Service: 111



Tor®

Contains: Clopyralid Triethylamine Salt; Triclopyr Triethylamine Salt; Triethylamine

### Danger

Causes serious eye damage

May cause respiratory irritation

May cause damage to kidneys through prolonged or repeated exposure

Very Toxic to aquatic life with long lasting effects

Do not breathe mist/vapours/spray.

Wear eye protection/face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTRE/doctor.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

To avoid risks to human health and the environment, comply with the instructions for use.

### IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

**Crops/Situations:**

Grassland (established)

**Maximum Individual Dose:**

1.0 litre product per hectare

**Maximum Number of Treatments:**

1.0 litre product/hectare/annum

**Latest Time of Application:**

7 days before grazing

### Other Specific Restrictions:

Applications must not be made outside of the period 1<sup>st</sup> March to 31<sup>st</sup> October.

To protect groundwater do not apply to leys less than 1 year old.

This product must not be applied via hand-held equipment.

Livestock must be kept out of the treated areas for at least 7 days following treatment. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.

DO NOT USE ON GRASSLAND that will be cut for animal feed (i.e. fresh cut grass, silage, hay and haylage), fodder or bedding within 12 months of treatment.

An interval of at least 12 months from the treatment date must elapse before making grass silage, hay or haylage.

Manure from animals fed silage, hay or haylage produced from grassland treated with TOR in the previous 12 months must not leave the farm.

Manure from animals grazed on TOR treated grassland must not leave the farm.

DO NOT USE ON GRASSLAND that will be grazed by horses and ponies.

DO NOT USE any plant material treated with TOR or manure from animals fed on crops treated with TOR for composting or mulching except where it goes back on to agricultural grassland, cereals or maize.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

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NET CONTENTS : 2 LITRES e

## **DIRECTIONS FOR USE**

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

TOR is a foliar acting herbicide for the control of creeping thistle in established grassland for grazing only.

## **NOTES**

Grass and weeds must be actively growing to ensure good weed control and minimal check to the grass.

DO NOT spray in drought, very hot or very cold weather.

Control may be reduced if rain falls within 2 hours of application.

DO NOT roll or harrow grass for 10 days before or 7 days after application.

Clover will be killed or severely checked by application of TOR.

DO NOT sow kale, swedes, turnips or grass mixtures containing clover by direct drilling or minimum cultivation techniques within 6 weeks of applying TOR. TOR residues in plant tissues which have not completely decayed may affect succeeding susceptible crops e.g. peas, beans and other legumes, carrots and umbelliferae, potatoes and tomatoes, lettuce and other compositae, glasshouse and protected crops. Do not plant susceptible autumn sown crops e.g. winter beans in the same year as treatment with TOR. Where susceptible crops are to be planted in the spring, do not apply TOR later than the end of July of the previous year. Following good agronomic practice ensure that plant remains have completely decayed before planting susceptible crops.

DO NOT use any plant material treated with TOR for composting or mulching.

DO NOT use manure for composting from animals fed on crops treated with TOR.

DO NOT USE ON GRASSLAND which will be grazed by horses and ponies.

TOR must only be applied to established grassland intended for grazing in the calendar year of application. Where silage, hay or haylage is produced from this area in the following calendar year, any plant material treated with TOR or manure subsequently produced from animals fed on this must stay on the farm. This must only be spread onto agricultural grassland, cereals or maize.

Under no circumstances should this manure be supplied to gardeners or allotment holders, or commercial compost producers i.e. there must be no off-farm sale or supply, as sensitive plants may be affected by residues of TOR in the manure.

Grass treated with TOR must not be cut for hay, haylage or silage within 12 months of treatment. TOR is safe to grass. Very occasionally some yellowing of the sward may occur; this is transient and quickly outgrown.

Occasionally, e.g. in hot conditions, vapour drift may occur, making it particularly important to assess the risk to neighbouring vegetation.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

All conifers, especially pine and larch, are very sensitive to spray drift.

## **Grazing Interval**

Exclude livestock during treatment and do not allow livestock to graze treated grassland for at least 7 days following treatment. Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable with higher levels of toxins. Animals should be excluded from treated area until any ragwort has completely recovered or died and there is no visual sign of the dead weed. Do not include treated ragwort in hay or silage crops.

## **WEEDS CONTROLLED**

TOR is recommended for the control of creeping thistle in the rosette stage up to 200 mm high or across in ESTABLISHED GRASSLAND FOR GRAZING ONLY.

## **RATE OF USE**

Apply TOR at 1.0 litre/ha in 200 to 400 litres of water as an overall treatment for the control of creeping thistle. Use the higher volume of water where the weeds are large at the time of application and where grass is dense.

## **TIMING**

Application timing of TOR is crucial for good control and must be made when the weeds and grass are actively growing to ensure good weed control and minimal check to the grass. Creeping thistle should be treated in the rosette stage, before stem extension, and within the size given above.

It is important that there is sufficient leaf area for uptake of the herbicide especially soon after cutting where the plant may only have a few small leaves. This is particularly true on well-established thistles, which will have extensive root systems that will generate many new shoots.

If the grass (and hence the weeds) has been cut for conservation hay or silage, or has been grazed, leave for 2 to 3 weeks to allow sufficient regrowth to occur before spraying.

To allow maximum translocation of TOR to the roots do not cut grass for 28 days after application.

On large well-established thistles and where there is a large reservoir of seed in the soil a further application in the following year may be required.

### **MIXING**

Fill the spray tank half full with water and add the required amount of TOR. Continue filling with water and maintain agitation during filling, while spraying and during any stoppages. Mix up only sufficient spray volume for the area to be treated and use the spray immediately.

Wash out spray equipment thoroughly with water and detergent immediately after use. Spray out, fill with clean water and leave overnight. Spray out again before storing or using another product. Traces of TOR could cause harm to susceptible crops sprayed later.

### **SPRAY QUALITY**

Apply TOR as a MEDIUM spray as defined by the BCPC system.

### **TANK CLEANING**

Wash out spray equipment thoroughly with water and detergent immediately after use. Spray out, fill with clean water and leave overnight. Spray out again before storing or using another product. Traces of TOR could cause harm to susceptible crops sprayed later.

### **COMPANY ADVISORY INFORMATION**

The following information does not form part of the product label under the UK plant protection products regulations and provides additional advice on product use at the discretion of Corteva Agriscience.

### **TRADEMARK ACKNOWLEDGEMENTS**

TOR is a trademark of Corteva Agriscience and its affiliated companies.

All other brand names are trademarks of other manufacturers for which proprietary rights may exist

### **CORTEVA AGRISCIENCE CONDITIONS OF SUPPLY**

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

**To access the Safety Data Sheet for this product scan the QR code or use the weblink below:**



<https://www.corteva.co.uk/content/dam/dpagco/corteva/eu/gb/en/files/sds/TOR-SDS.pdf>

Alternatively contact your supplier