## Safety Information
**PROCLOVA**

### Warning
**Very toxic to aquatic life with long lasting effects**
Collect spillage.
Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.
Contains florpyrauxifen-benzyl. May produce an allergic reaction.

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

**PCS No. 06831**

**IMPORTANT INFORMATION**

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

| | |
|---|---|
| **Situation:** | Established grassland, newly sown leys |
| **Maximum Individual Dose:** | } |
| **Maximum Number of Applications:** | } Full details are given in the Important |
| **Latest Time of Application:** | } Information area on the attached leaflet |
| **Aquatic buffer zone to surface water bodies:** | } |
| **Other specific restrictions:** | } |

**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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# ProClova®

## HERBICIDE

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**GROUP 4 2 HERBICIDES**

**Product Registration Number: PCS No. 06831**

A water dispersible granule (WG) formulation containing 360 g/kg amidosulfuron and 75.5 g/kg florpyrauxifen-benzyl.
PROCLOVA is a foliar acting herbicide for the control of perennial and annual broad-leaved weeds in ESTABLISHED GRASSLAND and NEWLY SOWN LEYS where white clover is a valued component of the sward.

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


**Authorisation Holder:**
**Corteva Agriscience UK Limited**
Unit H4, Building H, Melbourn Science Park, Cambridge Road, Melbourn, SG8 6HB, United Kingdom
**24 Hour Emergency Telephone Number: +353 818 663 627**
Technical Hotline: +44 800 689 8899, e-mail: ukhotline@corteva.com
National Poison Centre (Dublin): 01 8092166

**Distributed by:**
**Whelehan Crop Protection**
Suite 12 Bunkilla Plaza, Bracetown Business Park
Clonee, Co Meath, Ireland
Tel: 01 574 2410


**NET CONTENTS : 250 G** ℮

**Best Practice Guidelines**
Scan before use

## SAFETY PRECAUTIONS

**Operator protection:**
WASH HANDS AND EXPOSED SKIN before eating and drinking, and after work.

**Environmental protection:**
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).
Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
To protect aquatic organisms, this product must only be applied by horizontal boom sprayer equipped with at least 75% drift reducing nozzles.
To protect aquatic organisms, DO NOT apply this product to land parcels where an intersecting watercourse* is present. When applying to land parcels where other types of watercourses are present, respect an unsprayed buffer zone of 3m to these watercourses.
* An 'intersecting watercourse' means where a land parcel is sloped towards a watercourse and any surface water run-off would drain into that watercourse.

**Storage and disposal:**
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
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.
DO NOT RE USE CONTAINER for any purpose.

**Triple rinse containers, puncture and invert to dry at time of use**

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**IMPORTANT INFORMATION**

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

| Crops | Maximum individual dose (g product/hectare/crop) | Maximum number of applications | Latest time of application |
|---|---|---|---|
| Established grassland | 125 g/ha | 1 per calendar year | 7 days before grazing / cutting and before 31st October |
| Newly sown leys | 85 g/ha | 1 every 3 years | 7 days before grazing / cutting and before 31st October |

**Other specific restrictions:**

- To protect aquatic organisms, this product must only be applied by horizontal boom sprayer equipped with at least 75% drift reducing nozzles.
- To protect aquatic organisms, DO NOT apply this product to land parcels where an intersecting watercourse* is present. When applying to land parcels where other types of watercourses are present, respect an unsprayed buffer zone of 3m to these watercourses.
  * An 'intersecting watercourse' means where a land parcel is sloped towards a watercourse and any surface water run-off would drain into that watercourse.
- PROCLOVA must be tank-mixed with XL Adjuvant (PCS No. 92492) at 0.165 L/ha in newly sown leys and 0.25 L/ha in established grassland.
- In newly sown leys application may only take place between 1st April and 31st October once the grass has started tillering and white clover has reached the 3-trifoliate leaf stage.
- In established grassland application may only take place between 1st March and 31st October.

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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 to obtain safe and successful use of this product.**

### RESTRICTIONS / WARNINGS

Broad-leaved weeds not present at application will not be controlled.
DO NOT spray if frost is expected. If the leaves are wet or covered with ice run-off may occur.
DO NOT apply to crops under stress. Stress can be caused by many factors including drought, frost, ground compaction, water-logging, trace element deficiency, disease and pest attack etc.
DO NOT apply directly to, or allow spray drift to come into contact with agricultural or horticultural crops, amenity plantings or gardens. ponds, lakes or water courses.
PROCLOVA is rainfast in 1 hour.
PROCLOVA is not approved for use on grass grown for seed production.
PROCLOVA is not approved for use on straight stands of clover. Only where clover is a valued component of the sward.

### WEEDS CONTROLLED

PROCLOVA + XL adjuvant (PCS No. 92492) has activity against a range of broad-leaved weeds.

| Crop | Susceptibility | Weed | Optimum timing of application |
|---|---|---|---|
| Established grassland | Susceptible | Broad-leaved dock | Actively growing and up to 200 mm diameter |
| | | Cow parsley<br>Hogweed<br>Ribwort plantain<br>Meadow buttercup<br>Creeping buttercup<br>Dandelion | Actively growing and before flowering |
| Newly sown leys | Susceptible | Broad-leaved dock*<br>Common chickweed<br>Shepherd's purse<br>Mayweed spp<br>Redshank<br>Hogweed | Actively growing, before flowering and less than 100 mm in height or diameter |
| | Moderately susceptible | Fat hen<br>Knotgrass<br>Black bindweed | |

* seedling plants controlled only

### Grassland use notes

Weeds must be actively growing at the time of application to ensure good control.
Application to plants where dry soil conditions have led to moisture stress could result in reduced levels of control.
For optimum results wait for at least 21 days following treatment before cutting for hay or silage.
For optimum results spray when overnight temperatures are forecast to be above 8°C for a period of 3 days before and 3 days after proposed application date.
Very occasionally some growth inhibition of the grass may occur after application. This is transitory and quickly outgrown.

**White Clover**

PROCLOVA can be applied to swards containing white clover.
Application can cause visual symptoms such as deformation and growth inhibition but symptoms are transitory with full recovery thereafter.

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If applying to newly sown leys, wait until white clover has reached the 3-trifoliate leaf stage before application.
Application in the spring is recommended for quicker recovery of the clover.

**Red Clover**
PROCLOVA can be applied to swards containing red clover, after it has reached the 3-trifoliate leaf stage, in the spring of the **year after** planting.
PROCLOVA application to red clover can cause similar visual symptoms to those described for white clover.
Red clover is more sensitive compared to white clover which means recovery will take longer.

**Rolling / Harrowing Interval**
DO NOT roll or harrow grass for 10 days before or 7 days after application.

**Grazing Interval**
Livestock must be kept out of treated areas for at least 7 days following treatment.

**Ragwort**
Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visible sign of the dead weed. Do not include treated ragwort in hay or silage crops.

## RESISTANCE MANAGEMENT

PROCLOVA contains the active ingredients florpyrauxifen-benzyl and amidosulfuron. Florpyrauxifen-benzyl is a member of the arylpicolinate family of synthetic auxins (Group 4 according to HRAC classification) and the risk of developing resistance to this active is low. Amidosulfuron is an ALS inhibitor, also classified by the Herbicide Resistance Action Committee as Group 2 and the risk of developing resistance to this active is high. To reduce the risk of developing resistance or where resistance to sulfonylurea herbicides is suspected applications should be made to young, actively growing weeds. The use of cultural methods of control and herbicides with non-ALS modes of action within the cropping season and/or throughout the cropping rotation will help reduce the risk of developing resistance.

## CROP SPECIFIC INFORMATION

**NEWLY SOWN LEYS (from beginning of tillering stage (BBCH 20) up to 90% ground cover or less than 1 year old)**

**Time of application**
PROCLOVA can be applied to newly sown leys from beginning of tillering stage (BBCH 20) between 1st April and 31st October. If clover is present, ensure it has reached 3 trifoliate leaves (BBCH 13) before application.
Application timing is crucial for good control. Applications must be made to weeds that are actively growing at the time of application.

**Rate of application**
Apply 85 grams of PROCLOVA + 0.165 litres of XL Adjuvant (PCS No. 92492) in 200 litres of water per hectare.

**ESTABLISHED GRASSLAND (more than 90% ground cover or older than 1 year)**

**Application timing**
PROCLOVA can be applied to established grassland between 1st March and 31st October.
Application timing is crucial for good control. Applications must be made when weeds are actively growing before and immediately after application.

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If the grass (and hence the weeds) has been cut or grazed, leave for 2 to 3 weeks to allow sufficient regrowth to occur before spraying. It is important that there is sufficient weed leaf area for the uptake of the herbicide. On large well-established weeds, and where there is a large reservoir of seed in the soil, a further control programme in the following year may be required. If large mature docks are present or there is significant leaf damage, consider topping and spraying regrowth 2 to 3 weeks later to optimise control.

**Rate of application**
Apply 125 grams of PROCLOVA + 0.25 litres of XL Adjuvant (PCS No. 92492) in 200 litres of water per hectare.

## FOLLOWING CROPS / CROP FAILURE

After 4 months maize, cereals, grass, winter oilseed rape or potatoes can be planted.
After 14 months fodder beet can be planted.

## MIXING AND SPRAYING

### Application equipment

PROCLOVA should be applied through a hydraulic boom sprayer provided it is in good working order and has been calibrated according to the manufacturers' recommendations.

### Mixing

Half fill the spray tank with clean water, start agitation and then add the required amount of PROCLOVA. Continue filling the tank with clean water, add the required amount of XL Adjuvant (PCS No. 92492) and maintain agitation during filling to the required volume. 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.

### Tank cleaning

To avoid subsequent injury to crops other than grassland and cereals, all spraying equipment must be thoroughly cleaned both inside and out, using proprietary tank cleaner (e.g. All Clear Extra) as follows (or following tank cleaner manufacturers advice):

1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water and add tank cleaner at the recommended rate. Agitate and then briefly flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the boom and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with tank cleaner solution containing the recommended rate of tank cleaner in the appropriate volume of water.
5. Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.
6. For disposal of washings, follow Code of Practice for Using Plant Protection Products. Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

**Note**: If it is not possible to drain the tank completely, step 3 must be repeated before going onto step 4.

## TRADEMARK ACKNOWLEDGEMENTS

Proclova 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

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**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.com/content/dam/dpagco/corteva/eu/ie/en/files/sds/PROCLOVA-IRL-SDS.pdf

Alternatively contact your supplier

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Unit H4, Building H, Melbourn Science Park, Cambridge Road, Melbourn, SG8 6HB, United Kingdom
**24 Hour Emergency Telephone Number: +353 818 663 627**
Technical Hotline: +44 800 689 8899, e-mail: ukhotline@corteva.com
National Poison Centre (Dublin): 01 8092166

**Distributed by:**
**Whelehan Crop Protection**
Suite 12 Bunkilla Plaza,
Bracetown Business Park
Clonee, Co Meath, Ireland
Tel: 01 574 2410


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