

# XL

## ADJUVANT

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An emulsifiable concentrate (EC) adjuvant containing 94% w/w oil (rapeseed fatty acid esters).

XL is a wetting agent combining methylated vegetable oil with emulsifiers to improve the wetting of the leaf surface. This results in increased absorption of the tank mixed PROCLOVA herbicide which increases weed control.

It is a requirement of the approval to use XL in tank mixture with PROCLOVA in order to achieve the levels of weed control stated in the Weeds Controlled section of this label.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET**  
**SHAKE WELL BEFORE USE**  
**PROTECT FROM FROST**

**Authorisation Holder:**

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National Poisons Information Service: 111

# PROCLOVA XL

Product Registration Number: MAPP No. 21165

**COMPONENT A: PROCLOVA**

**COMPONENT B: XL**

PROCLOVA XL 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.

### IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

<b>Crops:</b>	Grassland
<b>Maximum individual dose:</b>	}
<b>Maximum number of treatments (per year):</b>	} Full details are given in the
<b>Latest time of application:</b>	} Important Information area
<b>Aquatic buffer zone (metres):</b>	} on the attached leaflet
<b>Other specific restrictions:</b>	}

**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.**

This label is compliant with the CPA  
Voluntary Initiative Guidance.



**NET CONTENTS : 500 ML e**

Artwork Free area for in-house print of  
2D data matrix code

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## 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 CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES and FACE PROTECTION (FACESHIELD) when handling the product.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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

WASH CONCENTRATE from skin or eyes immediately.

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 respect an unsprayed buffer zone to surface water bodies as specified for the crop. HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. The LERAP record form must be kept available for three years. 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'.

### 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 REUSE CONTAINER for any purpose.

## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops	Maximum individual dose	Maximum number of treatments (per year)	Latest time of application	Aquatic buffer zone (metres)
Grassland	125 g product/ha PROCLOVA AND 250 mL product/ha XL (see "Other Specific Restrictions")	1 (see "Other Specific Restrictions")	see "Other Specific Restrictions"	12

### Other specific restrictions:

A maximum application rate of 85 g/ha of PROCLOVA & 165 mL/ha of XL must not be exceeded for newly sown leys.

The maximum individual dose of 125 g/ha of PROCLOVA & 250 mL/ha of XL must only be applied to established grassland.

Applications to established grassland must only be made between March 1<sup>st</sup> and October 31<sup>st</sup>.

Applications to newly sown leys must only be made from 3 true leaves of the grass (GS13) between April 1<sup>st</sup> and July 31<sup>st</sup>. A maximum of 1 application in 3 years may be applied.

Application of any product containing amidosulfuron must not be made in the same field for either of the following 2 years following application to newly sown leys, even in the event of crop failure or progression to established grassland.

Application of any product containing florpyrauxifen-benzyl must not be made in the same field in the year following application to newly sown leys.

Treated grass must not be grazed or cut for fodder, hay or silage until at least 7 days after application.

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

DO NOT apply via hand-held equipment.

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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 the time of 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.

Take extreme care to avoid drift onto crops and non-target plants outside the target area. PROCLOVA XL is rainfast in 1 hour.

Under unfavourable conditions after application yellowing or growth inhibition of the grass may occur. Symptoms are transient and do not negatively impact the yield or quality.

Care should be taken not to overlap spray swaths as doing so may reduce dry matter production.

Particularly where application is made to rapidly growing lush grass an initial check may occur that can reduce dry matter production. This effect is usually transitory in nature and in most situations there will be no overall reduction in dry matter production across the whole season.

PROCLOVA XL should only be applied using three star drift reduction technology.

PROCLOVA XL must not be used on grass seed crops.

## WEEDS CONTROLLED

PROCLOVA XL has activity against a range of broad-leaved weeds.

Crop	Dose	Susceptibility	Weed	Optimum timing of application
Established grassland	125 g/ha PROCLOVA + 250 mL/ha XL	Susceptible	Dock (broad-leaved)	Actively growing and up to 200 mm diameter
			Hogweed Ribwort plantain Creeping buttercup	Actively growing and before flower buds visible
		Moderately Susceptible	Cow parsley Dandelion Meadow buttercup	Actively growing and before flowering
Newly sown leys	85 g/ha PROCLOVA + 165 mL/ha XL	Susceptible	Shepherd's purse	Actively growing, before stem elongation and less than 70 mm in height or diameter
			Redshank	Actively growing, before stem elongation and less than 100 mm in height or diameter
			Mayweeds	Actively growing, before flowering and less than 100 mm in height or diameter
			Dock (broad-leaved)*	Actively growing, before side shoots visible and less than 100 mm in height or diameter
		Moderately Susceptible	Black bindweed Common chickweed	Actively growing, before side shoots visible and less than 100 mm in height or diameter Actively growing, before stem elongation and less than 100 mm in height or diameter

\* seedling plants

The effects of PROCLOVA XL on long-term control of perennial grassland weeds has not been fully investigated.

#### **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 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. For optimum results wait for at least 21 days following treatment before cutting for hay or silage. Very occasionally some growth inhibition of the grass may occur after application. This is transitory and quickly outgrown.

#### **White Clover**

PROCLOVA XL can be applied to swards containing white clover. Application can cause visual symptoms such as deformation and growth inhibition but symptoms are usually transitory with full recovery thereafter. If applying to newly sown leys, wait until clover has reached the 3-trifoliolate leaf stage before application. Safety to clover sown after an application of PROCLOVA XL has not been demonstrated. Application in the spring is recommended for quicker recovery of the clover.

#### **Red Clover**

Limited crop safety data have been provided to confirm PROCLOVA XL's safety to red clover, after it has reached the 3-trifoliolate leaf stage, in the spring of the calendar year after planting. PROCLOVA XL application to red clover is likely to 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 XL contains the active ingredients florpyrauxifen-benzyl and amidosulfuron. Florpyrauxifen-benzyl is a member of the arylpicolininate family of synthetic auxins (Group 4 (legacy O) according to HRAC classification). Amidosulfuron is an ALS inhibitor, classified by HRAC as Group 2 (legacy B) 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 (less than 1 year old)**

#### **Time of application**

PROCLOVA XL can be applied to newly sown leys from 3 true leaves of the grass (GS13) between April 1<sup>st</sup> and July 31<sup>st</sup>. If clover is present, ensure it has reached 3 trifoliolate leaves (GS13) before application.

Application timing is crucial for good control. Applications must be made to weeds that are actively growing at the time of application.

It is important that there is sufficient leaf area for the uptake of the herbicide. Where there is a large reservoir of seed in the soil, a further control programme in the following year may be required.

#### **Rate of application**

Apply 85 g of PROCLOVA + 165 mL of XL in 200 litres of water per hectare.

### **ESTABLISHED GRASSLAND (older than 1 year)**

#### **Application timing**

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

If the grass (and hence the weeds) has been cut or grazed, allow sufficient regrowth to occur before spraying. It is important that there is sufficient 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, consider topping and spraying regrowth to optimise control.

#### **Rate of application**

Apply 125 g of PROCLOVA + 250 mL of XL in 200 litres of water per hectare.

## FOLLOWING CROPS / CROP FAILURE

After 4 months maize, cereals, or grass can be planted.

After 5 months winter oilseed rape can be planted.

After 6 months potatoes can be planted.

After 14 months fodder beet can be planted.

## MIXING AND SPRAYING

### Application equipment

PROCLOVA XL should be applied through a hydraulic boom sprayer provided it is in good working order and has been calibrated according to the manufacturers' recommendations. PROCLOVA XL should only be applied using three star drift reduction technology

### 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 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.

### Spray quality

Apply PROCLOVA XL as a MEDIUM / COARSE spray as defined by the BCPC system.

### 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 a 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 All Clear Extra 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 All Clear Extra solution containing 50 ml of All Clear Extra per 10 litres 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 a sensitive crop or land intended for cropping with a sensitive crop.

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

## 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

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.

## 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/XL-SDS.pdf>

Alternatively contact your supplier

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