

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops / Situations:	Maximum Individual Dose (litres product/ha)	Maximum Total Dose	Latest Time of Application
Oilseed rape (winter and spring)	0.33 litre	0.5 litre product/ha/crop	Before flower buds visible from above the crop canopy
Sugar beet, red beet, fodder beet, mangels, swede, turnip	0.33 litre	0.5 litre product/ha/crop	When crops meet between the rows BBCH 39
Forage maize	0.17 litre	0.17 litre product/ha/crop	Up to and including 9 or more true leaves unfolded BBCH 19
Established Grassland	0.33 litre	0.33 litre product/ha/year	7 days before harvest/ cutting for hay or silage
Wheat, barley, oats (winter and spring)	0.12 litre	0.12 litre product/ha/crop	Before 3 rd node detectable stage BBCH 33
Outdoor woody ornamentals	0.33 litre	0.33 litre product/ha/year	-

Other Specific Restrictions:

- Livestock must be kept out of treated areas for at least 7 days following treatment and until poisonous weeds such as ragwort have died and become unpalatable.
- For use on ornamentals applications must be only via directed sprays only to target weed foliage. Do not use between the end of August and beginning of March.
- Applications must not be made earlier than 1 March in the year of harvest.
- A 7 day minimum application interval must be observed for those crops with 2 applications.

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.



Lontrel™ 600

HERBICIDE

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GROUP 4 HERBICIDE

Product Registration Number: PCS No. 04914

A soluble concentrate containing 600 g ae/litre (48% w/w) clopyralid.

A foliar acting herbicide effective against a range of perennial and annual weeds, in particular THISTLES and MAYWEEDS, in a variety of crops.

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

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

Triple Rinse Containers, Puncture And Invert To Dry At Time Of Use

Authorisation Holder:

Corteva Agriscience UK Limited
CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE
Telephone: (01462) 457272

24 Hour Emergency Telephone Number: 076 680 5288

For Technical Enquires Call: +44 (0) 800 689 8899 or email ukhotline@corteva.com
National Poison Centre (Dublin): 01 8092166

SAFETY PRECAUTIONS**Operator protection:**

WASH HANDS AND EXPOSED SKIN before meals and after work.
Keep out of reach of children.
Keep away from food, drink and animal feeding stuffs.
When using do not eat, drink or smoke.
Wear suitable protective clothing.
If in eyes rinse cautiously with water for several minutes.

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

Storage and disposal:

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.
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.



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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.

LONTREL 600 herbicide is a soluble concentrate formulation of clopyralid, a foliar acting herbicide which is also translocated into roots, rhizomes and stolons. LONTREL 600 is particularly active on weeds of the Compositae family e.g. annual and perennial thistles and mayweeds.

GENERAL WARNING

ALL CROPS

A period of at least 90 days must be observed prior to planting of oilseed rape, sugar beet and cereals. A period of at least 125 days must be observed prior to planting of all other succeeding crops following treatment with LONTREL 600.

Do not use any plant material treated with LONTREL 600 for composting or mulching.

Do not use manure from animals fed on crops treated with LONTREL 600 for composting.

ALL CROPS (EXCLUDING CEREALS)

LONTREL 600 residues in plant tissues (including manure and digestate) which have not completely decayed may affect succeeding susceptible crops. If treated crop remains have not fully decayed by the time of planting following crops then avoid planting: **peas, beans and other legumes; carrots and other umbellifers; potatoes; lettuce and other compositae; glasshouse and protected crops.**

To avoid risk to field crops following application of LONTREL 600 to crops other than cereals, do not plant susceptible autumn-sown crops (e.g. winter beans) in the same year as treatment with LONTREL 600. Where susceptible crops are to be planted in spring, do not apply LONTREL 600 later than the end of July of the previous year.

Chop and incorporate all treated plant remains in the early autumn (or as soon as possible after harvest) to release any residues into the soil, where they are more quickly broken down. Following good agronomic practice ensure that stubble and straw (including farmyard manure) and other treated plant remains have completely decayed before planting susceptible crops.

CEREALS STRAW:

Straw from cereals sprayed with LONTREL 600 may contain residues which could damage certain crops. To avoid such risk:

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(on the back of 2D code area printed
on the front page)

CEREALS:

Field Crops: Bale and cart away the straw. Where straw is chopped and incorporated do not plant winter beans in the same year as treatment with LONTREL 600.

Glasshouse Crops: Straw from treated crops should not be used or supplied for use as straw in compost, poultry litter, manure or spent mushroom compost for any glasshouse crop.

Straw from treated crops may be used for strawing down strawberries.

NOTES

For best results apply LONTREL 600 when the weeds are actively growing. Control of mayweeds may be reduced if they are suffering from drought stress at the time of application.

Control of creeping thistle and other perennial weeds may be impaired by cultivations either before or within a period of two weeks after application of LONTREL 600.

In common with good spraying practice LONTREL 600 should not be applied when the crop is damp or when rainfall is expected within six hours.

Where two applications are made to a crop a 7 day minimum application interval must be observed.

Do not spray when crops are under stress from cold, drought, pest damage, nutrient deficiency etc.

Consult processors before using on crops for processing.

Contract agents should be consulted before using on crops grown for seed.

Do not apply to crops undersown with clover or other legume containing mixtures.

LONTREL 600 is not subject to vapour drift, but do not spray in windy weather and avoid drift onto susceptible crops (e.g. seed potatoes).

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

Wash spraying equipment thoroughly with water and a liquid detergent immediately after use. Spray out. Fill with clean water and leave overnight. Spray out again before storing or using another product, particularly where changing over from herbicides to insecticides. Traces of LONTREL 600 can cause harm to susceptible crops (e.g. seed potatoes) sprayed later.

LONTREL 600 should be applied in tank mix with other products only if any requirement or restrictions on the other product label do not conflict with the requirements or restrictions of LONTREL 600. Tank mixes should not be allowed to stand in the tank and agitation should be maintained at all times.

MIXING

Fill the spray tank half full with water and add the required amount of LONTREL 600 mixing well, then complete filling. If using a tank mix, the other products should be mixed with the water first following the label instructions, and LONTREL 600 added last. The spray mix must be agitated continuously until application is complete.

SPRAY QUALITY

Apply LONTREL 600 as a MEDIUM spray as defined by the BCPC system.

ANNUAL WEED SUSCEPTIBILITY

Weed susceptibility to the most commonly recommended rates of LONTREL 600 are given in the weed tables below. For further details of rates, timings, etc, please refer to the individual crop sections.

Weed	Growth Stage	
	0.17 litre/ha	0.33 litre/ha
Susceptible: Good kill		
Corn marigold	2 leaf	4 leaf
Creeping thistle (from seed)	4 leaf	6 leaf
Groundsel	6 leaf	10 leaf
Pineappleweed	4 leaf	8 leaf
Scented mayweed	4 leaf	8 leaf
Scentless mayweed	4 leaf	8 leaf
Smooth sow-thistle	2 leaf	4 leaf
Moderately Susceptible: Moderate kill, strong suppression of survivors		
Black-bindweed	1 leaf	2 leaf
Moderately Resistant: Poor kill but useful suppression		
Pale persicaria	1 leaf	2 leaf
Redshank	1 leaf	1 leaf

PERENNIAL WEED SUSCEPTIBILITY

Control by 0.17 litre/ha + 0.33 litre/ha programme.

Creeping thistle	S
Perennial sow-thistle	MS
Dandelion	S
Spears thistle	S
White clover (10 cm diameter)	MS

S = Susceptible; Complete or near complete kill

MS = Moderately Susceptible; Good kill under favourable conditions

LONTREL 600 applied in the 0.17 litre/ha + 0.33 litre/ha programme will also give some suppression of young plants of amphibious bistort and colt's-foot.

OILSEED RAPE

AUTUMN SOWN OILSEED RAPE

LONTREL 600 can be applied to all varieties of autumn sown oilseed rape in the spring from the two fully expanded leaf stage but before the flower buds are visible above the crop canopy.

Perennial Weed Control

For the control of creeping thistle apply LONTREL 600 at 0.33 litre in 200 to 250 litres of water per hectare at the weed rosette stage (up to 30 cm across).

Annual Weed Control

For annual weeds apply LONTREL 600 at 0.17 litre/ha in the spring. In competitive crops of oilseed rape mayweeds up to 10 cm in diameter will be well controlled by LONTREL 600 at 0.17 litre/ha. Apply in a water volume of 200-400 litres/ha.

SPRING SOWN OILSEED RAPE

LONTREL 600 can be applied to all varieties of spring sown oilseed rape for the control of annual weeds or creeping thistle. For annual weeds apply LONTREL 600 at 0.17 litre in 200 to 250 litres of water per hectare. For creeping thistle apply LONTREL 600 at 0.17 litre/ha at the rosette stage followed by a second application three to four weeks later of 0.33 litre in 200 to 250 litres of water per hectare.

Where two applications are made to oilseed rape, a 7 day minimum application interval must be observed.

SUGAR BEET, RED BEET, FODDER BEET AND MANGELS

CONVENTIONAL VOLUMES

For the control of annual weeds apply LONTREL 600 at 0.17 litre/ha in 200 to 250 litres of water per hectare. For the control of creeping thistle apply LONTREL 600 at 0.17 litre/ha in 200 to 250 litres of water per hectare at the rosette stage, followed by a second application of LONTREL 600 at 0.33 litre/ha in 200 to 250 litres of water per hectare three to four weeks later.

LONTREL 600 may be used alone from the fully expanded cotyledon stage of the crop.

Where two applications are made to sugar beet, red beet, fodder beet and mangels, a 7 day minimum application interval must be observed.

CONTROL OF VOLUNTEER POTATO

LONTREL 600, when used for the control of volunteer potato will give good stunting and loss of vigour to the potato. The control of green foliage will not be complete but the reduction in vigour will significantly reduce the competitive threat posed to the crop from this weed. As well as the reduction in vigour there can be a substantial reduction in number and weight of any daughter tubers that are produced. Any daughter tubers that are formed by a potato plant subsequent to the application of LONTREL 600 can have reduced viability and loss of vigour.

Reduction or partial control of volunteer potato can be achieved by the use of Betanal Flow + Nortron Flo + LONTREL 600 at 1.75 + 0.6 + 0.17 litres/ha respectively as a two spray programme.

Timing

The application timing of LONTREL 600 is dependent upon the size of the potato. For best results it is recommended that following timings are adhered to:

- The first application should be made when the volunteer potato shoots are between 5 and 10 cm tall providing the sugar beet crop is at the sizes stated above.
- The second application should then be made when the volunteer potato is between 10 and 20 cm tall. The size of potato for this second application is that of an untreated potato, for an accurate guide to when this stage is reached it is advisable to leave a small area of untreated potato in the field. Typically the second application will be 7 to 14 days after the first.

Applications of LONTREL 600 should in all cases be completed before the end of June.

When applying LONTREL 600 for the control of volunteer potato the total amount applied to the crop should not exceed 0.33 litre/ha (i.e. 2 applications of 0.17 litre/ha).

Note

Varieties of potatoes with particularly vigorous growth habits exhibit reduced sensitivity to LONTREL 600 thus results may be less reliable than on other less vigorous varieties.

SWEDE AND TURNIP

LONTREL 600 may be applied to all types and varieties of swede and turnip in the spring. For the control of annual weeds apply LONTREL 600 at 0.17 litre in 200 to 250 litres of water per hectare.

For the control of creeping thistle apply LONTREL 600 at 0.17 litre/ha for the first application at the rosette stage, followed by a second application three to four weeks later of 0.33 litre in 200 to 250 litres of water per hectare.

Application should only be made to direct drilled brassica crops after they have reached the two true leaf expanded stage. Transplanted crops can be treated once they are growing strongly and are fully established. Some chlorosis or leaf distortion may occur in crops with a reduced coating of leaf wax (e.g. due to soil acidity).

Compatibility

LONTREL 600 when used at 0.33 litre/ha should not be tank mixed for use on any brassica crop.

FORAGE MAIZE

LONTREL 600 can be applied to all varieties of forage maize after the three leaf expanded stage. For annual weeds apply 0.17 litre in 200 to 250 litres of water per hectare.

ESTABLISHED GRASSLAND

LONTREL 600 can be applied to all species and varieties of grass in established grassland following removal of any livestock.

As an overall treatment, LONTREL 600 should be applied at 0.33 litre/ha in a water volume of 300 to 400 litres/ha. Application should be made when weeds are actively growing at the 15 to 30 cm rosette stage. If grass has been cut for hay or silage, treat at least 2 to 3 weeks after cutting when sufficient re-growth has occurred.

NOTE

A 7 day period must elapse between the application of LONTREL 600 and the reintroduction of livestock, or the cutting for hay or silage.

CEREALS (WINTER AND SPRING WHEAT, BARLEY, OATS)

LONTREL 600 at 0.12 litre/ha added to Starane Hi-Load HL will improve control of corn marigold, groundsel, pineappleweed, scented mayweed, scentless mayweed and smooth sowthistle.

Recommended water volume is 200 litres/ha.

LONTREL 600 can be applied in the spring from the 2 leaf stage (BBCH 12) up to and including the second node detectable stage (BBCH 32).

ORNAMENTAL PLANT PRODUCTION

LONTREL 600 can be applied as a directed spray on ornamental trees and shrubs, but all spray or drift contact with leaves, buds, suckers, or green stems of the crop must be avoided using a shielded or hooded sprayer if necessary.

Do not apply LONTREL 600 within the root zone of species of the family Compositae (eg *Senecio* spp) or Papilionaceae (eg *Laburnum*, *Genista*, *Cytisus* spp).

Apply LONTREL 600 at 0.33 litre in 200 litres of water per hectare at the optimum time for control of target weeds (creeping thistle at the rosette stage up to 30 cm across).

COMPATIBILITY

For details on compatibilities contact your distributor or Corteva technical hotline on +44 (0) 800 689 8899 or ukhotline@corteva.com

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 LONTREL 600 could cause harm to susceptible crops sprayed later.

TRADEMARK ACKNOWLEDGEMENTS

LONTREL 600 is a registered trademark of Corteva Agriscience and its affiliated companies.

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.ie/content/dam/dpagco/corteva/eu/ie/en/files/sds/LONTREL-600-SDS.pdf>

Alternatively contact your supplier

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**SAFETY PRECAUTIONS****Operator protection:**

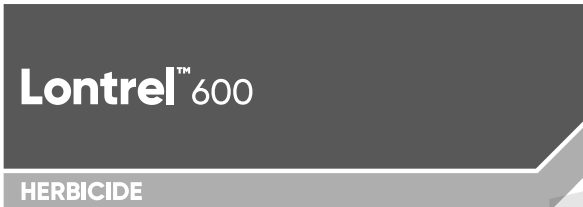
WASH HANDS AND EXPOSED SKIN before meals and after work. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wear suitable protective clothing. If in eyes rinse cautiously with water for several minutes.

Environmental protection:

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Storage and disposal:

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. 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.



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