

LENS[®]

HERBICIDE

GROUP 2 HERBICIDE

MAPP 19386

LENS is a water soluble granule formulation containing 200 g/kg metsulfuron-methyl.

For use as a contact and residual herbicide in wheat, barley, oats, triticale and for use on green cover on land not being used for crop production, e.g. set-aside.

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

Warning

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment.

Collect spillage.

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.



UPL Europe Ltd., Engine Rooms (1st Floor), Birchwood Park, Warrington, WA3 6YN, Telephone: 01925 819999, Fax: 01925 817425

For Batch Number and Manufacturing Date see bottle

For 24 hour emergency information contact:

CARECHEM24 : +44 (0) 1235 239670

60g



UPL

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE.

Crops/situations	Maximum individual dose	Maximum number of treatments	Latest time of application	Aquatic buffer zone distance
Wheat, barley, oats and triticale	30 g product/ha	One per crop.	Before flag leaf sheath extending stage.	5 meters
Green cover on land not being used for crop production	30 g product/ha	One per year "see other specific restrictions".	Before 1 st August in year of application.	5 meters

Other specific restrictions:

1. 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 the 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Directorate's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.
2. This product must only be applied from 1st February in the year of harvest until the specified latest time of application.
3. This product must only be applied to green cover on land temporarily removed from production where a full green cover is established.
4. Green cover on land temporarily removed from production must not be grazed by livestock or harvested for human or animal consumption or used for animal bedding.
5. This product must only be applied to green cover on land temporarily removed from production where the crop cover is predominantly (i.e. sufficient to maintain reasonable cover) grassland, wheat, barley, oats or triticale.
6. This product must not be applied via hand-held equipment.
7. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

READ THIS 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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SAFETY PRECAUTIONS

Environmental Protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

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 LERAP requirement.

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 waterbody, 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.

Storage and Disposal

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

Avoid release to the environment. Refer to special instructions/safety data sheet.

EXTREME CARE MUST BE TAKEN TO AVOID DAMAGE BY DRIFT ON TO NON-TARGET PLANTS OUTSIDE THE TARGET AREA.

Wash out container thoroughly, empty washings into the spray tank and dispose of safely.

Do not re-use container for any purpose.

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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.

LENS is a selective herbicide used for annual broad-leaved weed control in wheat, barley, oats, triticale and green cover on land temporarily removed from production e.g. set-aside. It can be absorbed both through the roots and the foliage, and is rapidly translocated within the weed. It acts by stopping plant cell division and works quickly so that susceptible weeds stop growth almost immediately after post-emergence application, and are usually killed within 7-21 days depending upon weed species. Those weeds which are not killed will still generally give less competition to the crop.

LENS will give most effective weed control when applied to weeds that are small, and actively growing at the time of application.

LENS can be safely used on all varieties of winter and spring wheat, spring barley, oats and triticale. Winter barley variety Igri must not be treated before leaf-sheath erect stage of growth. Earlier treatment may cause a check to growth and ear distortion. Do not use on undersown crops or crops that will be undersown.

WEED RESISTANCE

When herbicides with the same mode of action are used repeatedly over several years in the same field strains of weeds resistant to herbicides may develop. Resistant species survive a correctly-applied treatment at the recommended dose. It is recommended that LENS is used as part of a cropping programme which includes the use of herbicides with different modes of action. Do not rely on one herbicide mode of action in the same field over several years.

Key aspects of the LENS weed resistance management strategy are:

- Always follow the WRAG guidelines for preventing and managing herbicide resistance. Copies of the guidelines are available from the AHDB, CPA, your distributor, crop adviser or product manufacturer.
- Development of resistance within a weed species can be avoided or delayed by sequencing or tank-mixing with suitable products having a different mode of action.
- LENS is a sulfonylurea herbicide whose mode of action is via ALS inhibition. Do not use LENS, or any other ALS inhibitor herbicide, as a sole means of broad-leaved weed control in successive crops.

- Always use broad-leaved weed herbicides with non-ALS mode of action throughout the crop rotation.
- Always monitor effectiveness of weed control and investigate any occurrences of poor effectiveness. If unexplained failure occurs, contact your agronomist who may consider a resistance test appropriate.

RESTRICTIONS

Do not apply to flax.

Do not apply to crops which are under stress at time of application, e.g. drought, waterlogging, low temperatures, nutrient or lime deficiency, pest or disease attack etc.

Do not roll or harrow within one week of application.

LENS is extremely active at very low concentrations. Take extreme care to avoid:

- overlap of spray swaths
- drift on to broad-leaved plants outside the target area
- drift on to surface waters and ditches
- draining of spraying equipment on land to be used for any crop except cereals.

In cereals the application must not be made before 1st February. Contract agents should be consulted before using LENS on crops grown for seed.

WEED CONTROL

Apply to small actively growing weeds for most effective weed control. Soil should be moist at the time of application but foliage should not be wet.

The weeds listed in the weed control tables will be susceptible at the 2 expanded true leaves stage. The susceptibility of the weed then declines with growth. The table below shows susceptibility at up to 6 expanded true leaves. Weeds indicated by an asterisk (*) may be controlled up to 15 cm high /across.

Susceptible up to 6 true leaves

Chickweed, Common *	Hemp-nettle, Common *
Corn marigold	Mayweed spp *
Corn spurrey*	Nettle, Small
Crane's-bill	Nipplewort
Dead-nettle, Red	Pale persicaria *
Docks*	Parsley piert *
Dove's foot	Poppy, Common
Field speedwell, Common	Redshank *
Fool's parsley ♦	Scarlet pimpernel *
Groundsel	Shepherd's-purse *
	Volunteer sugar beet *

Moderately Susceptible up to 6 true leaves

Buttercup, Creeping	Sun spurge
Forget-me-not, Field	Thistle, Creeping *
Knotgrass	Volunteer oilseed rape
Pansy, Field	

Susceptible up to 4 true leaves

Sowthistle, Smooth

♦ *Fool's parsley is a late germinating weed and this can lead to poor control.*

CROP SPECIFIC INFORMATION

Application Rate and Water Volume

For all crops apply LENS at 30 g/ha in 100-200 litres water per hectare as a medium quality spray (BCPC definition). Where crop or weed cover is dense increase the water volume to 400 l/ha. Make only one application per year.

Timing of Application

<u>Wheat and oats</u>	Apply from the 2 leaf stage to before the flag leaf sheath extending stage (GS 39).
<u>Barley and triticale</u>	Apply from 3 leaf stage to before flag leaf sheath extending stage (GS 39).
<u>Set-aside</u>	LENS can be used on set-aside land

temporarily removed from agriculture. Before applying to land that is part of a grant aided scheme, ensure compliance with the management rules of that scheme. Apply before 1st August in the year of application.

Where established grass species are the main cover crop, some discoloration and stunting may occur. LENS should not be used on seedling grasses.

On set-aside land LENS is effective for the control of docks with the best control achieved from application 3 weeks before or after cutting.

FOLLOWING CROPS

Only cereals should be planted within 16 months of applying LENS to green cover on land not being used for crop production. Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year to succeed a cereal crop treated with LENS.

Refer to 'Compatibility' section for specific advice concerning following crops permitted after use of LENS with other sulfonylurea and 'ALS inhibiting' herbicides.

MIXING AND SPRAYING

Ensure sprayer is clean, in good working order and calibrated prior to use.

Half fill the spray tank with clean water and begin agitation.

Add the required amount of LENS to the spray tank. Add the remainder of the water and continue agitation during spraying.

When using in a tank mix, always add LENS to the spray tank first and ensure it is completely dispersed before adding the partner product.

IMMEDIATELY AFTER SPRAYING IS COMPLETE, WASH OUT THE SPRAYER WITH WATER AND SUITABLE TANK WASHING PRODUCT TO ENSURE THAT THE EQUIPMENT IS COMPLETELY DECONTAMINATED. TRACES OF LENS REMAINING IN OR ON THE SPRAY TANK MAY RESULT IN DAMAGE TO CROPS SPRAYED LATER.

Dispose of tank wash safely and do not spray on to susceptible crops or land intended for planting with susceptible crops.

COMPATIBILITY

In wheat and barley LENS can be applied alone or in mixture. Do not use LENS in tank-mix on oats and triticale.

It is important to follow the recommendations of the mixture product as well as LENS, and always add the LENS to the spray tank first.

For information on tank mixes please contact your local distributor or visit the UPL website uk.uplonline.com.

Apply LENS alone, or in mixture to crops which are healthy at the time of application and suffering no stress or deficiencies.

Sequential Application with Sulfonylurea or Other 'ALS Inhibiting' Herbicides

LENS may be applied in sequence or tank mix with approved formulations of ONE of the following sulfonylurea or ALS inhibiting herbicide products.

IMPORTANT: SEQUENTIAL APPLICATIONS MUST BE MADE WITHIN THE LABEL RECOMMENDATIONS OF ALL PRODUCTS IN THE SEQUENCE

Florasulam 2

Barton WG	Paramount
Boxer	RouteOne Florasul 50
Flora 50	Solstice
Flora 50 II	Sumir
Lector	Suprime
Life Scientific Florasulam	Troller

Amidosulfuron 1

Eagle

Florasulam/Clopyralid 2

Gartrel

Florasulam/Fluroxypyr/Clopyralid 2

Galaxy Dakota

Florasulam/Pyrox-sulam 2

Broadway Star* Palio

Florasulam/Fluroxypyr 2

Cleave	Nevada
Flurosulam XL	Slalom
GF-184	Starane XL
Hunter	Spitfire

Florasulam/Diflufenican 2

Lector Delta

Mesosulfuron-methyl/Iodosulfuron methyl sodium 2

Atlantis WG	Lusitania
CINTAC	Mesiodo 35
FICAP	Mesiodostar WG
Hatra	Nemo
Horus	Niantic
Idosem 36	Ocelot
Iodomeso OD	Pacifica
Jerico	RouteOne Seafarer
Lansita	Standon Mimas WG

Mesosulfuron-methyl/Iodosulfuron methyl sodium/Diflufenican 2

Othello

1 Only cereals (wheat, barley, oats, rye, triticale) or potatoes as following crop

2 Only winter wheat as following crop; minimum 21 days replant interval

*Sequence not to be used in spring wheat.

Allow a minimum of 7 days between sequential applications.

Do not apply LENS with any other sulfonylurea or 'ALS inhibiting product' not listed above.

SPRAY TANK CLEAN OUT

To avoid subsequent damage to crops other than cereals, immediately after spraying LENS thoroughly clean all spray equipment including inside and outside of lid using an appropriate sprayer cleaner according to the label instructions. Alternatively use the following procedure:

1. Immediately after spraying, drain tank completely. Any contamination of 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 boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water and add 1/3 litres household ammonia (contains 9.5% ammonia) for each 100 litres of tank volume. (Equivalent amounts of alternate strength ammonia solutions can be used providing the final concentration in the full tank is 0.03%). Agitate and then 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. Again flush the boom and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with ammonia solution at the same concentration as used for the sprayer.

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 the Green Code: 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings'. Do not spray onto sensitive crops 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 on to step 4.

Conditions of supply

All goods supplied by us are of high grade and we believe them to be suitable; however, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during and 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, and 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. Our staff or agents cannot vary these conditions whether or not they supervise or assist in the use of such goods. LENS is a registered trademark of UPL Europe Ltd. Other brand names used in this guide are trademarks of other manufacturers for which propriety rights may exist.

EU supplier details (for Northern Ireland only):
UPL Holdings Coöperatief U.A.,
Claudius Prinsenlaan 144 A, Blok A,
4818CP Breda, The Netherlands

To access the Safety Data Sheet for LENS please use the link below or scan the code.



uk.uplonline.com/productdetails/LENS

Alternatively, contact your local supplier

