

GROUP 4 HERBICIDE

# MINSTREL<sup>®</sup>

## HERBICIDE

MAPP 13745

An emulsifiable concentrate containing 200 g/l fluroxypyr (equivalent to 28.6% w/w fluroxypyr-1-methylheptyl ester with an aromatic hydrocarbon).

**For the control of certain annual weeds in the listed cereals, maize and grassland.**

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

### Danger

**Flammable liquid and vapour**

**May be fatal if swallowed and enters airways.**

**Causes serious eye irritation.**

**May cause respiratory irritation.**

**May cause drowsiness or dizziness.**

**Very toxic to aquatic life with long lasting effects.**

Keep away from heat/sparks/open flames/hot surfaces.

Avoid breathing fume/gas/mist/vapours/spray.

Wear protective gloves / protective clothing / eye protection / face protection.

IF SWALLOWED: Rinse mouth. Do not induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

IF eye irritation persists get medical advice/attention.

Collect spillage. Hazardous to the aquatic environment.

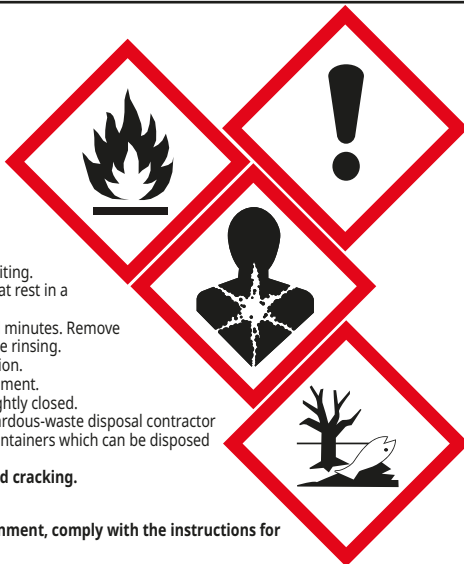
Store in a well ventilated place. Keep container tightly closed.

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.

**Repeated exposure may cause skin dryness and cracking.**

UFI: 2KDR-G0S4-HVKF-PWCP

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



5 LITRES



UPL

## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop/situation	Maximum individual dose (L product/ha)	Maximum total dose (L product/ha)	Latest time of application	Aquatic buffer zone distance (metres)
Spring wheat, spring barley	0.75	0.75 per crop	Flag leaf stage: flag leaf fully unrolled, ligule just visible.	5
Winter wheat, winter barley	1.0	1.0 per crop	Flag leaf stage: flag leaf fully unrolled, ligule just visible.	5
Winter rye, winter oats, triticale	1.0	1.0 per crop	Before second node detectable.	5
Spring oats	0.75	0.75 per crop	Before second node detectable.	5
Forage maize	1.0	1.0 per crop	Before 7 leaves unfolded.	5
Grassland	2.0	2.0 per year	-	5

### OTHER SPECIFIC RESTRICTIONS:

1. A maximum total dose of 0.75 litres per hectare must be observed for applications made to cereals between crop emergence in the year of planting and 1st February in the year of harvest.
2. When the product is applied as a spot treatment to permanent grassland and rotational grass, the maximum concentration must not exceed 30ml product per 10 litres water.

**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.**

## 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) and suitable protective gloves when applying by hand-held equipment.

Wear suitable protective gloves when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide adequate protection.

WASH CONCENTRATE from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

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

### Environmental protection

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 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.

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.

Livestock must be kept out of treated areas for at least 3 days following treatment. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.

### Storage and disposal

Keep out of reach of children.

Do not re-use container for any purpose.

Protect from frost.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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

## 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.

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 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.

### CONDITIONS OF APPLICATION

**Cereals:** Avoid spraying during periods of prolonged cold (temperatures below 10°C).

**Maize:** Avoid spraying during periods where night temperatures are below 5°C.

### SPECIFIC RECOMMENDATIONS

**WARNING:** Danger to neighbouring broadleaved crops. Avoid spraying near broadleaved crops in windy conditions.

Use as low a spray pressure as possible and the lowest boom height possible, whilst ensuring an even spray.

Do not apply when temperatures exceed 25°C in the shade.

Do not apply MINSTREL if the field is undersown with legumes or legume containing mixes.

Do not roll or harrow either one week pre or post treatment.

Treat only vigorous, healthy crops growing under good soil and weather conditions

Do not treat diseased crops or those suffering pest attack.

Do not treat crops suffering herbicide damage, drought, waterlogging, other stress.

Cereals undersown with grasses may be treated provided that the grasses are tillering.

### SPRAY MIXING

Half fill the spray tank with water. Pour the required volume of MINSTREL into the spray tank, then top up with the required amount of water. Stir continuously. Spray volume from 200 to 400l/ha. Use equipment that is clean and in good working order. Avoid overlapping spray swaths. Spray should be applied as a MEDIUM spray (BCPC definition).

### PRECAUTIONS

Flash point: 55°C

Freezing point: <-5°C

Keep in original container.

Do not re-use container. The empty container must be sent for disposal as hazardous waste.

Unused product should be disposed of as hazardous waste, in compliance with local and national legislation.

When using the product thoroughly empty and rinse the product container, pouring the rinse water into the spray tank.

Clean sprayer and tank thoroughly after use with a wetting agent.

### MODE OF ACTION

Fluroxypyr, the active ingredient of MINSTREL, belongs to the family of synthetic auxin herbicides. Repeated use of preparations containing substances with the same mode of action may lead to the emergence of resistant strains. To reduce the risk of occurrence of this phenomenon, it is advisable to avoid the repeated use of products with the same mode of action and alternate applications of products with different modes of action, both on one crop and in rotation of crops.

# **RATE AND TIME OF APPLICATION AND TARGET WEEDS**

For optimum efficacy application of MINSTREL to weeds should be when the weeds are actively growing.

Crop	Timing	Dose	Weed susceptibility
Winter barley, winter wheat	From the crop having 2 leaves (GS12) until the fully tillered stage (GS29).	0.75 l/ha	Cleavers (to 5cm) Common chickweed (to 5 cm)
	Do not treat crops once they have passed the fully tillered stage (GS29) wait until after the 1 <sup>st</sup> March.		
	After 1 <sup>st</sup> March from the crop having 2 leaves (GS12) until the flag leaf stage: flag leaf fully unrolled, ligule just visible stage.	1.0 l/ha	Black bindweed (to 6 leaves) Cleavers (to flowering stage) Common chickweed (to flowering stage) Forget-me-not (to flowering stage) Hempnettle (to flowering stage) Knotgrass (to 2 leaves) Red dead-nettle (to 4 leaves)
Triticale, winter oats, winter rye	In spring (after 1 <sup>st</sup> March) from the crop having 2 leaves unfolded to before the 2 <sup>nd</sup> node is detectable.	1.0 l/ha	Black bindweed (to 6 leaves) Cleavers (to flowering stage) Common chickweed (to flowering stage) Forget-me-not (to flowering stage) Hempnettle (to flowering stage) Knotgrass (to 2 leaves) Red dead-nettle (to 4 leaves)
Spring barley, spring wheat	From the crop having 2 leaves unfolded to Flag leaf stage: flag leaf fully unrolled, ligule just visible stage	0.75 l/ha	Black bindweed (to 4 leaves) Cleavers (to 10 cm) Common chickweed (to 10 cm) Forget-me-not (to 5 cm) Hempnettle (to 10 cm) Knotgrass (to 2 leaves)
Spring oats	From the crop having 2 leaves unfolded to before the 2 <sup>nd</sup> node is detectable.	0.75 l/ha	Black bindweed (to 4 leaves) Cleavers (to 10 cm) Common chickweed (to 10 cm) Forget-me-not (to 5 cm) Hempnettle (to 10 cm) Knotgrass (to 2 leaves)
Forage maize	Between the crop having 3 and 6 leaves unfolded, inclusive. Treat before the buttress roots start to develop.	1.0 l/ha	Black bindweed (to 4 leaves) Cleavers (to 10 cm) Common chickweed (to 10 cm) Forget-me-not (to 5 cm) Hempnettle (to 10 cm) Knotgrass (to 2 leaves) Black nightshade (to 4 leaves)
Grassland (newly sown leys)	<u>Susceptible annual weeds</u>		
Important: any clovers will be killed.	In autumn or spring. From the grasses having at least 3 expanded leaves.	0.75 l/ha	Common Chickweed to 5cms.
Established Grassland (permanent and rotational)	<u>Control of Dock spp.</u> Cut the docks before seeding, normally late-May to early-June. Spray the regrowth 2-3 weeks after cutting. A repeat treatment may be required in the following year if the docks are well-established or numerous. When making spot treatments, spray to just wet the dock leaves without run-off.	2 l/ha (or 30 ml MINSTREL per 10 litres water spot treatment)	Broad-leaved dock. Curled-leaved dock - both at the rosette stage before flowering.

**Crop failure**

In the event of a cereal or grass crop failure the following crops can be sown: spring cereals, spring oilseed rape, maize, onion, cultivated poppies and new leys. A minimum interval of 5 weeks is required and there are no cultivation restrictions.

**Rotational crops**

All crops can be sown following an application of MINSTREL.

**Compatibility**

For information on tank mixes consult the UPL website: [upl-ltd.com/uk](http://upl-ltd.com/uk)

**Conditions of Supply**

All goods supplied by the company are of good quality and we believe them to be fit for purpose. However, 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, 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.

These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods. Brand names used in this label may be registered trademarks of UPL Europe Ltd, or other manufacturers in 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 MINSTREL  
please use the link below or scan the code.



[www.upl-ltd.com/uk/product-details/minstrel](http://www.upl-ltd.com/uk/product-details/minstrel)  
Alternatively, contact your local supplier.



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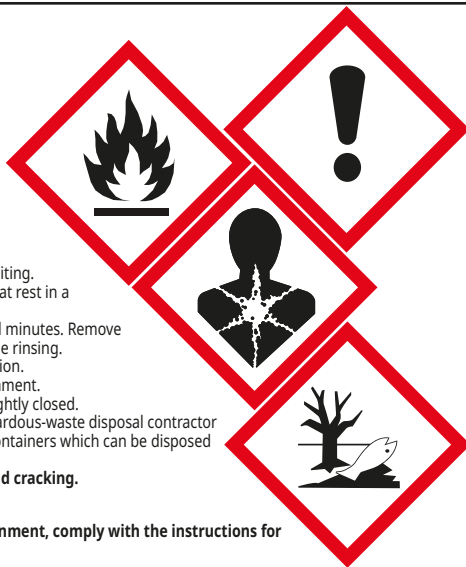
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