



## **Provalia® LQM® MAPP 17846**

An oil dispersion (OD) formulation containing 135 g/l fluroxypyr (present as 194.5g/l fluroxypyr meptyl), 5 g/l metsulfuron methyl and 30 g/l thifensulfuron methyl for spring weed control in winter wheat and winter barley.

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

### **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 handling the concentrate.

**WEAR SUITABLE PROTECTIVE GLOVES** when handling contaminated surfaces.

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**

**IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY** with plenty of water and seek medical advice.

**WASH SPLASHES** from skin or eyes immediately.

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

#### **Environmental Protection**

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

**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)  
**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.

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 HSE'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 AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS

KEEP OUT OF REACH OF CHILDREN

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.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

Approval holder

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Contents: XXX L

Manufactured in the EU.

SHAKE WELL BEFORE USE

**Risk and Safety Information**

**PROVALIA LQM**

**HERBICIDE**

**Contains 135 g/l fluroxypyr (present as 194.5g/l fluroxypyr meptyl), 5 g/l metsulfuron-methyl and 30 g/l thifensulfuron methyl**

**WARNING**



**May cause an allergic skin reaction**

**Very Toxic to aquatic life with long lasting effects**

Avoid breathing spray

Contaminated work clothing should not be allowed out of the workplace

IF ON SKIN: Wash with plenty of soap and water

Specific treatment (see first aid instructions on label)

Take off contaminated clothing and wash before reuse

Wear protective gloves/protective clothing

If skin irritation or rash occurs: get medical advice/attention

Collect spillage

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).

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 MAN AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.**

**IMPORTANT INFORMATION**

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Maximum individual dose:	1 litre/ha
Maximum number of treatments:	1 per crop
Crops:	winter wheat, winter barley
Latest time of application:	Before flag leaf sheath fully emerged growth stage (GS39)
Aquatic buffer zone distance:	5 metres (see Environmental Protection phrases)
Other specific restrictions:	This product must only be applied from 15th March in the year of harvest until the specified latest time of application This product must not be applied by hand-held equipment

**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**

## 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.**

### Restrictions

- PROVALIA LQM should not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Do not use PROVALIA LQM on cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- Due to the high level of activity of the herbicide, special care must be taken to avoid damage by drift onto broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleansing of equipment is also very important - see below.
- PROVALIA LQM should not be applied within 7 days of rolling the crop.
- All requirements or restrictions on other product labels must be adhered to when applied to the same crop as PROVALIA LQM. Contact your DuPont distributor for further information.
- Refer to 'Compatibility' for details on use of PROVALIA LQM with other 'ALS inhibiting' herbicides

### Weed control

PROVALIA LQM contains fluroxypyr (a pyridine carboxylic acid) and metsulfuron methyl and thifensulfuron methyl (both ALS inhibitor herbicides) and work mainly by contact action. It is most effective if applied when the weeds are small and actively growing. Good spray cover of the weeds must be obtained for best results. Susceptible plants cease growth almost immediately after application and symptoms can be seen about one week after application although the full effect of the treatment may not be apparent for up to three weeks depending on the species and environmental conditions. The susceptibility rating of weeds in the following table refer to good spray cover and good growing conditions.

Weed species	0.75 l/ha		1.0 l/ha	
	2-6 true leaves	15 cm	2-6 true leaves	15 cm
Shepherd's purse	S	MS	S	MS
Common fumitory	MS	-	S	-
Cleavers	MS	MS	S	S
Red dead-nettle	S	MS	S	MS
Mayweed species	S	S	S	S
Common poppy	S	S	S	S
Charlock	-	-	S	S
Common chickweed	-	S	S	S
Field pansy	MS	MR	S	MR

Weed control may be reduced where soil conditions are dry.

S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant

## **Resistance**

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. Development of resistance with a weed species can be avoided or delayed by alternating (or tank mixing) with suitable products having a different mode of action. A strategy for preventing and managing resistance should be adopted. The Weed Resistance Action Group has produced guidelines and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

PROVALIA LQM contains metsulfuron and thifensulfuron methyl, both ALS inhibitors (Group B, HRAC classification mode of action), and fluroxypyr, a synthetic auxin (Group O, HRAC classification mode of action).

## **Crops**

PROVALIA LQM can be used on all winter varieties of wheat and barley between the growth stages given below. Crop damage may occur under certain conditions. This may lead to reductions in yield.

## **Dose**

Apply PROVALIA LQM at up to 1 L/ha

## **Timing**

PROVALIA LQM must be applied in the spring from 15<sup>th</sup> March from the beginning of tillering (GS 21) on winter cereals up to the flag leaf fully emerged growth stage (GS 39).

## **Following crops**

Cereals, oilseed rape, field beans or grass may be sown in the same calendar year as harvest of a cereal crop treated with PROVALIA LQM. In case of crop failure for any reason, sow only wheat within three months of application of PROVALIA LQM. Before sowing, soil should be ploughed and cultivated to a depth of at least 15-cm.

## **Volume and application**

BEFORE USING PROVALIA LQM, SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES.

As the product is a skin sensitiser a minimum water volume of 150litre water per 1litre product must be used.

Application should be made in a minimum of 150 litres of water per hectare, using suitable ground equipment to give good spray cover of the weeds. Use a conventional field crop sprayer at a pressure of 2-3 bars and apply as a MEDIUM spray (as defined by BCPC). When crops are thick or weed growth is dense, use up to 400 litres of water per hectare. Care should be taken not to overlap spray swaths.

## **Mixing**

Quarter fill the spray tank with clean water, start the agitation and add the required quantity of PROVALIA LQM directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying.

## **Compatibility**

PROVALIA LQM may be applied with other products, provided each product can be applied within the label recommendations for its use. Always add PROVALIA LQM to the spray tank first when using in tank-mix and ensure it is fully dispersed before adding the partner product.

PROVALIA LQM may be applied to the same crop with one of the following 'ALS inhibiting' products. Requirements and restrictions on other product labels must be adhered to.

Flupyr-sulfuron containing products	Mesosulfuron containing products	Pyroxulam containing products
Bullion	Atlantis WG	Broadway Star
Ductis SX	Hatra	Broadway Sunrise
Exceed SX	Horus	GF-2070#
Staka SX	Othello	Unite#
Excalibur	Pacifica	
Lexus Class		
Absolute		
Lexus SX		

# Use in Sequence only

PROVALIA LQM may be applied to a winter wheat crop which has previously been treated with an authorised sequence of flupyr-sulfuron and mesosulfuron containing products used for the control of black-grass provided adequate control of chickweed, mayweed and poppy has already been achieved. In order to avoid potential increased selection for herbicide resistant individuals, do not use PROVALIA LQM if any of these weeds remain following the use of this sequence recommendation. Unexplained patches of poor weed control should always be monitored and, in consultation with an agronomist, a resistance test may be appropriate.

Additional recommendations may be approved since label printing. Please consult your DuPont distributor for latest details on compatibilities.

### **SPRAY TANK CLEAN-OUT**

POOR CLEANOUT PRACTICES AND INSUFFICIENT WATER VOLUMES USED FOR THE RINSE PROCEDURE MAY RESULT IN INADEQUATE REMOVAL OF PRODUCT DEPOSITS. SUBSEQUENT USE OF APPLICATION EQUIPMENT IN THESE CIRCUMSTANCES MAY RESULT IN DAMAGE TO NON-CEREAL CROPS.

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING PROVALIA LQM THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

Always start with a clean tank and spray system. Clean spray equipment thoroughly immediately after use. Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

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 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 DuPont ALL CLEAR EXTRA at the recommended rate. 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 an 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 the Code of Practice for Using Plant Protection Products (DEFRA Publications 2006). 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 on to step 4.

### **WARNING**

EXTREME CARE SHOULD BE TAKEN TO AVOID SPRAY DRIFT ONTO NON-CROP PLANTS OUTSIDE THE TARGET AREA OR ONTO PONDS, WATERWAYS OR DITCHES. SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN CEREALS.

### **NOTICE TO BUYER**

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, 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 for any damage or injury whatsoever arising from their storage, handling, application or use.

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All manufacturers trademarks are duly acknowledged.

### **Safety Data Sheet**

[ insert QR code and wording]

To access the Safety Data Sheet for this product scan the code, visit [www.cropprotection.dupont.co.uk](http://www.cropprotection.dupont.co.uk) or alternatively contact your supplier