

 OPEN HERE
**RISK AND SAFETY INFORMATION****PENNANT®****Herbicide**

containing 40 g/kg  
metsulfuron-methyl  
and 400 g/kg  
thifensulfuron-methyl

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

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.

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

**WARNING****FMC**

# PENNANT®

## Cereal herbicide

GROUP 2 HERBICIDE

**MAPP 21662**

A non-segregating blend of water soluble  
granules containing 40 g/kg metsulfuron-  
methyl and 400 g/kg thifensulfuron-methyl for  
spring control of broad-leaved weeds in winter  
wheat, spring wheat and spring barley.

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

**FOR USE ONLY AS A PROFESSIONAL  
HERBICIDE**

\* is a trademark of FMC Corporation or an affiliate

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Technical Helpline: 01423 205011

**Emergency No.s - Medical Incidents Involving**

**Crop Protection Products:** England & Wales:  
111, Scotland: 08454 24 24 24, Northern Ireland:  
Local GP or Pharmacist, Republic of Ireland: 01 837  
9964. **Healthcare professionals seeking poisons  
information:** www.toxbase.org.

**Emergency No.s - Transportation, Warehousing &  
After Sale Incidents:** CHEMTREC help centre Dialling  
from the UK and NI: 0870 820 0418, Dialling from  
Ireland: 01 901 4670

**The Voluntary Initiative**

This label is compliant  
with the CropLife UK  
Voluntary Initiative  
Guidance



To access the Safety Data  
Sheet for this product scan  
the code

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET**

Batch N°:



# Contents: 250 g



|                             | FILL IN                   |                           | DIMENSION (WxH)              |
|-----------------------------|---------------------------|---------------------------|------------------------------|
| Country                     | GREAT BRITAIN             | Single label              |                              |
| Product SKU                 | 11005920                  | Base for Booklet          |                              |
| Product SKU Description     | PENNANT_250G_GB           | Booklet                   | BKL 230x95 mm<br>(190x95 mm) |
| Label SKU                   | 22066647                  | Number of pages (Booklet) | 8 pages                      |
| Label SKU Description       | LBL_ML-F_250G_PENANT_GB_1 | Carton label              |                              |
| Label SKU (earlier version) |                           | Preprinted Material       | No                           |

## 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

- PENNANT® must 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 PENNANT® 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.
- Do not apply within 7 days of rolling the crop.
- Contract agents should be consulted before using on crops grown for seed.
- Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
- Refer to 'Compatibility' for details on use of PENNANT® with other 'ALS inhibiting' herbicides.

### Weed Control

PENNANT® contains two highly active herbicidal ingredients with activity against a wide range of broad-leaved weeds. Metsulfuron-methyl and thifensulfuron-methyl are sulfonylurea herbicides. PENNANT® is most effective when applied to small, actively growing weeds. As larger weeds usually become less susceptible, it is important to note the size of each weed species at the time of application. Susceptible plants cease growth almost immediately after post-emergence application and symptoms can be seen about two weeks after application. Good spray cover of the weeds must be obtained. Weed control may be reduced when soil conditions are very dry.

### Weed Resistance

This product contains metsulfuron-methyl and thifensulfuron-methyl which are ALS inhibitors, classified by the Herbicide Resistance Action Committee as Group 2 (previously Group B).

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 using cultural methods of control; using herbicides with non-ALS modes of action within the cropping season and/or throughout the cropping rotation and sequencing or tankmixing with suitable products having a different mode of action where two or more components are active against the target weeds. A strategy for preventing and managing resistance should be adopted. Avoid using herbicides with a single mode of action, such as ALS herbicides, in the same fields over a number of years. Do not apply to

weeds where target site resistance to ALS inhibiting herbicides is confirmed. Always follow the recommendations of the Weed Resistance Action Group (WRAG) with respect to the integration of chemical and cultural control measures. To reduce the risk of developing resistance applications should be made to young, actively growing weeds. Always monitor effectiveness of weed control and investigate any patches of poor control. If unexplained, contact your agronomist, who may consider a resistance test appropriate. The Weed Resistance Action Groups have produced guidelines and copies are available from the HGCA, CropLife UK, your distributor, crop adviser or product manufacturer.

### Susceptible Weeds

The susceptibility ratings of weeds in the following table refer to good spray cover and good growing conditions.

| Weed Species      | Plants up to 2 expanded true leaves | Plants up to 6 expanded true leaves | Plants up to 15 cm across/high |
|-------------------|-------------------------------------|-------------------------------------|--------------------------------|
| Black-bindweed    | S                                   | S                                   | MS                             |
| Charlock          | S                                   | S                                   | S                              |
| Chickweed, Common | S                                   | S                                   | S                              |
| Cleavers *        | MS                                  | MS                                  | MS                             |
| Dead-nettle, Red  | S                                   | S                                   | S                              |
| Fat-hen           | S                                   | S                                   | MS                             |

| Weed Species            | Plants up to 2 expanded true leaves | Plants up to 6 expanded true leaves | Plants up to 15 cm across/high |
|-------------------------|-------------------------------------|-------------------------------------|--------------------------------|
| Field-speedwell, Common | S                                   | S                                   | MS                             |
| Forget-me-not           | S                                   | S                                   | S                              |
| Hemp-nettle, Common     | S                                   | S                                   | S                              |
| Knotgrass               | S                                   | S                                   | MS                             |
| Mayweeds                | S                                   | S                                   | S                              |
| Orache, Common          | S                                   | S                                   | -                              |
| Pansy, Field            | S                                   | MS                                  | MS                             |
| Parsley-piert           | S                                   | S                                   | S                              |
| Poppy, Common           | S                                   | S                                   | MS                             |
| Redshank                | S                                   | S                                   | S                              |
| Shepherd's-purse        | S                                   | S                                   | S                              |

S = Fully susceptible

MS = Moderately susceptible

\* PENNANT® generally controls Cleavers at all stages of growth, but regrowth can occur. Should overspraying be necessary, do not use another sulfonylurea product for this purpose.

### Soil

PENNANT® can be used on all soil types. Weed control may be reduced when conditions are very dry.

### Volume and application

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

Application should be made in 200 litres of water per hectare using suitable ground equipment to give good spray cover of the weeds. In thick crops or dense weeds use higher volumes of water (up to 400 litres of water/ ha) to ensure 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). 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 PENNANT® directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying.

### Compatibility

To widen the spectrum of activity and improve the control of some weeds, PENNANT® may be applied with other herbicides, provided each product can be applied within the label recommendations for its use. Always add PENNANT® to the spray tank first when using in tank-mix.

The following 'joint application' with other sulfonylurea and 'ALS inhibiting' herbicides may be applied to a crop. Requirements and restrictions on other product labels must be adhered to. 'Joint application' is the use of PENNANT® in tank mixture or sequence with one of the products listed below.

|                  |             |                 |            |
|------------------|-------------|-----------------|------------|
| Absolute         | Excalibur   | Lexus SX        | Starane XL |
| Atlantis WG      | Exceed SX   | Othello         | Unite\$    |
| Barton WG        | Galaxy      | Pacifica        |            |
| Boxer            | GF-184      | Pursuit*        |            |
| Broadway Star    | GF-2070\$   | Slalom          |            |
| Broadway Sunrise | Hatra       | Spitfire        |            |
| Bullion          | Hiker       | Spitfire Solo   |            |
| Dakota           | Horus       | Staka SX        |            |
| Ductis SX        | Hunter      | Starane Gold    |            |
| Eagle*           | Lexus Class | Starane Vantage |            |

\* only cereals as following crop

\$ Use only in sequence with PENNANT®

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

### Crops

PENNANT® can be used on all varieties of wheat (except Durum wheat) and spring barley between the growth stages given below.

### Dose

Winter wheat - apply PENNANT® at 125 g/ha.  
Spring wheat and barley - apply PENNANT® at 100 g/ha.

### Timing

**Winter wheat:** Apply PENNANT® in the spring from 1 February, from the onset of tillering up to before flag leaf sheath extending (early-boot stage).

**Spring wheat and barley:** Apply PENNANT® in the spring from the three leaf stage up to before flag leaf sheath extending (early-boot stage).

### Following crops

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

### WARNINGS

EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE BY DRIFT ONTO BROAD-LEAVED PLANTS OUTSIDE THE TARGET AREA OR ONTO SURFACE WATERS OR DITCHES OR LAND INTENDED FOR CROPPING. SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN CEREALS.

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.

### SPRAY TANK CLEAN-OUT

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING PENNANT® 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.

1. Thoroughly and completely rinse all interior tank surfaces (including lid) with water (use at least 10% of the tank capacity), taking care to remove any visible deposits. Flush pump, filters and boom after removing in-line strainers, nozzle tips and screens (clean these parts separately). Drain the remainder of the rinsate from the tank.

2. Repeat the rinse, flush and drain.
3. 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:**

Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

## SAFETY PRECAUTIONS

**Operator protection**

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

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

**Environmental Protection**

Do not contaminate water with the product or its chemical and used container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

- (1) Crops/situations with >5m buffer zone:

Since there is a risk to aquatic life from use, direct spray from horizontal boom sprayers must not be allowed to fall within the distance specified for the crop of the top of the bank of any static or flowing waterbody or within

1m of the top of a ditch which is dry at the time of application.

Spray must be aimed away from water.

- (2) Buffer zones must be measured in accordance with the guidance set out in the HSE Chemicals Regulation Division's website and any amendments made to it.
- (3) 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 as appropriate to the crop must be maintained. The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).
- (4) To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.
- (5) Buffer zones greater than 5m are NOT eligible for buffer zone reduction under the horizontal boom LERAP scheme.

**Other specific restrictions:**

- (1) This product must only be applied from 1 February in the year of harvest until the specified latest time of application.
- (2) This product must not be applied via hand-held equipment.

**Storage and Disposal**

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place  
THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

**COMPANY ADVISORY INFORMATION**

This section is not part of the Product Label under the Plant Protection Products Regulations 1995 and provides additional advice on product use at the discretion of FMC Agro Limited.

**NOTICE TO BUYER**

FMC as the manufacturer warrants that the composition of the product in sealed original FMC packaging complies with the information given on this label. FMC is not liable for any direct or indirect consequences resulting from improper storage, handling or use of the product contrary to or otherwise not in compliance with this label, law and regulations. Various factors, especially local conditions, such as soil condition, plant varieties and weather conditions, may either cause the product not to have the full desired effect or result in damage to the crops treated. FMC does not assume any liability for such results.

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**RISK AND SAFETY INFORMATION****PENNANT®**

**Herbicide**  
**containing 40 g/kg metsulfuron-methyl and**  
**400 g/kg thifensulfuron-methyl**



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

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

**IMPORTANT INFORMATION  
FOR USE ONLY AS A PROFESSIONAL HERBICIDE**

| Crops                              | Maximum individual dose (g product / ha) | Max number of treatments (per crop) | Latest time of application                           | Aquatic buffer zone distance (metres)         |
|------------------------------------|------------------------------------------|-------------------------------------|------------------------------------------------------|-----------------------------------------------|
| Wheat (winter)                     | 125                                      | 1                                   | Before flag leaf sheath extending (early-boot stage) | 10 m<br>see Environmental Protection Phrase 1 |
| Barley (spring),<br>wheat (spring) | 100                                      |                                     |                                                      |                                               |

**Other specific restrictions:**

- (1) This product must only be applied from 1 February in the year of harvest until the specified latest time of application.
- (2) This product must not be applied via hand-held equipment.
- (3) 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.
- (4) Buffer zones greater than 5m are NOT eligible for buffer zone reduction under the horizontal boom LERAP scheme.

**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.**