

 OPEN HERE

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

B

HERBICIDE

MAPP 18779

 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 PROFESSIONAL USE ONLY
Manufactured in the E.U.

 Contents: **250 g e**

F-05271/31909 - UK

 FMC Agro Limited, Rectors Lane, Pentre, Flintshire, CH5 2DH.
 Tel: 01244 537370. Email: Flintshire.enquiry@fmc.com
 Website: www.fmc-agro.co.uk. 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 CPA Voluntary
 Initiative Guidance**

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

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET

® is a trademark of FMC Corporation or an affiliate

Batch N°:



3 576960 037112



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F-05271/31909 - UK



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.
- 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 sulfonyleurea 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

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 within a weed species can be avoided or delayed by sequencing 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 Groups have produced guidelines and copies are available from the HGCA, CPA, 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
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

* Harmony M SX 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

PENNANT® must only be applied in the spring after 1 February from the three-leaf stage up to and including the flag-leaf fully emerged stage of crop growth.

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.

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.

All manufacturers' trademarks are duly acknowledged.

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

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



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.

**Section 6 of the Health and Safety at Work Act
Additional Product Safety Information
(This section does not form part of the product label under the Control
of Pesticide Regulations 1986)**

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted under the Control of Pesticides Regulations.

The information on this label is based on the best available information including data from test results

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IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops: Winter and spring wheat, spring barley.

Maximum individual dose: Winter wheat: 125 g product/ha
Spring wheat: 100 g product/ha
Spring barley: 100 g product/ha

Maximum number of treatments: One per crop

Latest time of application: Before flag leaf sheath extending stage

Other specific restrictions:

This product must only be applied from 1 February in the year of harvest until the specified latest 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 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.

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.





