



# PACIFICA<sup>®</sup> PLUS



2.5 kg e

## Herbicide

A highly active herbicide (a combination of three sulfonylurea herbicides) with foliar and some root activity against black-grass, wild-oats, rye-grasses, bromes, meadow-grass, cleavers, common chickweed, mayweeds, charlock and volunteer oilseed rape in winter wheat.

### MAPP 17272

A water dispersible granule formulation containing  
30 g/kg mesosulfuron-methyl,  
10 g/kg iodosulfuron-methyl-sodium and  
50 g/kg amidosulfuron

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

Bayer CropScience Limited  
230 Cambridge Science Park  
Milton Road, Cambridge CB4 0WB  
Telephone: 01223 226500

**For 24 hour emergency information  
contact Bayer CropScience Limited**  
Telephone: 00800 1020 3333



## Safety Information

### PACIFICA PLUS

A water dispersible granule formulation containing 30 g/kg mesosulfuron-methyl, 10 g/kg iodosulfuron-methyl-sodium and 50 g/kg amidosulfuron. Also contains mefenpyr-diethyl.



## Danger

**May cause an allergic skin reaction.**

**Causes serious eye damage.**

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

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

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

If skin irritation or rash occurs: Get medical advice/attention.

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.

## IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <b>Crops:</b>                        | Winter wheat                                      |
| <b>Maximum individual dose:</b>      | 0.5 kg product/ha                                 |
| <b>Maximum total dose:</b>           | 0.5 kg product/ha/crop                            |
| <b>Maximum number of treatments:</b> | One per crop                                      |
| <b>Latest time of application:</b>   | Flag leaf ligule just visible (GS 39) of the crop |

### Other specific restrictions:

To avoid the build-up of resistance do not apply this or any other product containing an ALS inhibitor herbicide with claims for control of grass-weeds more than once to any crop.

This product must only be applied between 1 February in the year of harvest and the specified latest time of application. Doses above 0.4 kg/ha must only be applied between 1 March in the year of harvest and the specified latest time of application.

This product must not be applied via hand-held equipment.

Pacifica Plus is not recommended for use in joint application with products containing the active substance florasulam.

**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.**



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To access the **Safety Data Sheet** for this product scan the code or use the link below:

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**or alternatively contact your supplier**

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**Bayer**

# **SAFETY PRECAUTIONS**

## **Operator Protection**

Engineering control of operator exposure must be used where reasonably practical in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) 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

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

## **Environmental Protection**

Do not contaminate water with the product or its container.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

This product must only be applied between 1 February in the year of harvest and the specified latest time of application.

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 waterbody, unless a Local Environmental 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 inspection for three years.

## **Storage and Disposal**

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

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

## 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

DO NOT use Pacifica Plus on crops undersown with grasses, clover or other legumes or any other broad-leaved crop.

Only one "ALS inhibiting" herbicide can be applied to the same crop in sequence or tank mixture with Pacifica Plus. Refer to the table under **SEQUENCES & TANK MIXTURES** for details.

Pacifica Plus must not be applied to any crop suffering from stress as a result of drought, water-logging, pest or disease attack, nutrient deficiency, soil compaction or other factors reducing crop growth.

Because some non-target crops are sensitive to Pacifica Plus, extreme care is required to avoid drift onto plants outside the target area, or onto ponds, waterways or ditches.

Do not apply Pacifica Plus when rain is imminent.

Do not apply during periods of frosty weather.

Do not overlap spray swaths.

Store in a safe dry place designated as an agrochemical store.

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### WEEDS CONTROLLED

This product contains mesosulfuron-methyl, iodosulfuron-methyl-sodium and amidosulfuron which are ALS inhibitors, also classified by the Herbicide Resistance Action Committee as 'Group B'. Use only as a part of a resistance management strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of grass-weed control. Strains of some annual grasses (e.g. black-grass, wild-oats and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

Pacifica Plus is readily translocated within the target weed, inhibiting growth within hours of application. The actual time taken for herbicidal symptoms to appear and death varies between weed species, timing of application and weather conditions. In some cases symptoms may not be apparent for up to 4 weeks. As Pacifica Plus is active primarily via foliar uptake good spray coverage of the target weed is essential for optimal efficacy. Weeds germinating after application will not be controlled. Due to the potential for yield loss without prior signs of crop phytotoxicity, avoid use of Pacifica Plus to control light infestations of grass weeds.

If present at the time of application, the following weeds will be controlled:

|                                 | <b>Post-emergence control at<br/>0.4 kg/ha<sup>#</sup></b> | <b>Post-emergence control at<br/>0.5 kg/ha<sup>##</sup></b> |
|---------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
| Black-grass (Sensitive)         | to GS 39                                                   | -                                                           |
| Black-grass (Resistant* – EMR)  | to GS 29                                                   | -                                                           |
| Wild oats                       | to GS 39                                                   | -                                                           |
| Annual meadow-grass             | to GS 31                                                   | -                                                           |
| Rough-stalked meadow-grass      | to GS 31                                                   | -                                                           |
| Perennial rye-grass (from seed) | to GS 32                                                   | -                                                           |
| Italian rye-grass               | to GS 32                                                   | -                                                           |
| Sterile brome                   | Moderately Resistant to GS 33                              | Moderately Susceptible to GS 33                             |
| Great brome                     | Moderately Resistant to GS 33                              | Moderately Susceptible to GS 33                             |
| Rye brome                       | Moderately Resistant to GS 30                              | Moderately Susceptible to GS 30                             |
| Cleavers                        | to 20 cm high                                              |                                                             |
| Common chickweed                | to branching stage<br>(10 cm across/high)                  | -                                                           |
| Mayweeds                        | to branching stage<br>(10 cm across/high)                  | -                                                           |
| Charlock                        | to GS 16<br>(6 expanded true leaves)                       | -                                                           |
| Volunteer oilseed rape          | to GS 16<br>(6 expanded true leaves)                       | -                                                           |

<sup>#</sup> Applications of 0.4 kg/ha can be made between 1st February in the year of harvest and the specified latest time of application

<sup>##</sup> Applications of 0.5 kg/ha can be made between 1st March in the year of harvest and the specified latest time of application

\* Situations where Enhanced Metabolism Resistance has been confirmed as RR or RRR by a resistance test or where a significant reduction in performance of other herbicides has been noted previously.

Where mixed populations of black-grass and brome-grass occur, use the 0.4 kg/ha dose of Pacifica Plus. Only use 0.5 kg/ha where brome-grass is the overwhelming constituent of the mixture.

To reduce the risk of developing resistance or where resistance to sulfonylurea herbicides is suspected applications should be made to young actively growing grass weeds.

Key aspects of the Pacifica Plus resistance management strategy are:

- ALWAYS follow WRAG guidelines for preventing and managing herbicide resistant grass and broad-leaved weeds.
- IDEALLY adopt an integrated weed control programme incorporating cultural control measures to reduce reliance on Pacifica Plus and the risk of resistance developing (see WRAG guidelines for options).
- DO NOT use Pacifica Plus as a stand-alone spring treatment for black-grass, rye-grass or common chickweed. Use only in sequence with a robust autumn herbicide programme based on products with non-ALS modes of action. This programme should also be integrated with a programme of cultural control measures.
- IDEALLY apply Pacifica Plus as early as possible in the spring and before stem extension of grass weeds.
- DO NOT use Pacifica Plus as the sole means of grass weed or broad-leaved weed control in successive crops.
- ALWAYS use grass and broad-leaved weed herbicides with non-ALS modes of action throughout the cropping rotation.
- ALWAYS monitor weed control effectiveness and investigate any odd patches of poor grass or broad-leaved weed control. If unexplained contact your agronomist who may consider a resistance test appropriate.

## **CROP SPECIFIC INFORMATION**

### **Winter Wheat**

Apply via a horizontal boom sprayer at a rate of 0.4 or 0.5 kg/ha. Apply in 100-300 L/ha as a **FINE to MEDIUM** spray (BCPC category). Use application techniques which ensure good weed coverage and crop penetration, using flat fan nozzles. Ensure that spray swaths do not overlap. Always use Pacifica Plus in mixture with authorised adjuvant Biopower (ADJ No. 0617) at a rate of 1.0 L/ha.

Only one application of Pacifica Plus should be made to the crop.

For use on all varieties of winter wheat. Apply post-emergence of the crop and no earlier than 1st February in the year of harvest up to flag leaf ligule just visible (GS 39). Rates above 0.4 kg/ha must not be applied before 1st March.

## SEQUENCES & TANK MIXTURES

Only one “ALS inhibiting” herbicide can be applied to the same crop in sequence or in tank mixture with Pacifica Plus.

Pacifica Plus may be applied to the same crop in sequence or in tank mixture with one of the following “ALS inhibiting” herbicides:

|                                |                           |                            |
|--------------------------------|---------------------------|----------------------------|
| Alias <sup>†</sup>             | DP 911 SX <sup>†</sup>    | Pennant <sup>†</sup>       |
| Alias SX <sup>†</sup>          | Finish SX <sup>†</sup>    | Presite SX <sup>†</sup>    |
| Ally Express <sup>†</sup>      | Gropper SX <sup>†</sup>   | Quantum <sup>†</sup>       |
| Ally Max SX <sup>†</sup>       | Harmony M SX <sup>†</sup> | Quantum SX <sup>†</sup>    |
| Ally SX <sup>†</sup>           | Harmony SX                | Ratio SX <sup>†</sup>      |
| Answer SX <sup>†</sup>         | Hussar*                   | Refine Max SX <sup>†</sup> |
| Avro SX <sup>†</sup>           | Inka SX <sup>†</sup>      | Seduce <sup>†</sup>        |
| Biplay SX <sup>†</sup>         | Jubilee SX <sup>†</sup>   | Simba SX <sup>†</sup>      |
| Calibre SX <sup>†</sup>        | Lorate <sup>†</sup>       | Taxi <sup>†</sup>          |
| Chimera SX <sup>†</sup>        | Mozaic SX <sup>†</sup>    | Thor                       |
| Cleancrop Mondial <sup>†</sup> | Omnera® LQM <sup>®†</sup> | Traton SX <sup>†</sup>     |
| Concert SX <sup>†</sup>        | Parana <sup>†</sup>       | Triad <sup>†</sup>         |

\* Up to 50 g/ha Hussar may be applied with a maximum of 0.4 kg/ha Pacifica Plus.

† Only wheat or barley as following crops

These sequences and tank mixtures must only be applied in accordance with label recommendations for every product in the sequence or tank mixture and only if used in conjunction with a robust non-ALS inhibitor autumn herbicide programme. This is particularly important where both components are applied in the spring. Aside from those listed above, do not use in sequence or tank mixture with any other ALS inhibitors, such as, sulfonylureas, unless specifically permitted on the label for either product.

## FOLLOWING CROPS and CROP FAILURE

Winter wheat and winter barley may be sown in the year of harvest following a winter wheat crop treated with 0.5 kg/ha Pacifica Plus. Winter oilseed rape may be sown after ploughing in the year of harvest following a winter wheat crop treated with 0.4 kg/ha Pacifica Plus. Spring wheat, spring barley and sugar beet may be drilled in the spring following harvest of a winter wheat crop treated with 0.5 kg/ha Pacifica Plus. In the event of crop failure for any reason, sow only winter or spring wheat in the same cropping season as an application of Pacifica Plus. Where Pacifica Plus is applied in sequence or tank mixture with other permitted “ALS inhibiting” herbicides, always follow the most restrictive label with regard to following crops.

## MIXING

Add the recommended quantity of Pacifica Plus to the spray tank half-filled with the required quantity of clean water. Add the remainder of the water with the sprayer agitation system in operation. Maintain agitation during mixing and loading and until spraying is complete. Do not leave the sprayer standing with chemical in it.

To avoid subsequent damage to crops other than winter wheat it is important that the spray tank, boom, hoses, filters and nozzles are thoroughly washed out to remove all traces of Pacifica Plus immediately after spraying using a proprietary sprayer cleaner (e.g. All Clear Extra®) according to the label instructions for that product. Do not mix any bleach or chlorinating agent with any ammonia-based cleaning agent as toxic gases may be liberated.

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