

IPU 500

A suspension concentrate containing 500 g/L (44.6% w/w) isoproturon.

For the control of annual meadow-grass and broad-leaved weeds in winter wheat, spring wheat, winter barley, spring barley, rye and triticale.



WARNING



Safety Information

Suspected of causing cancer

Very toxic to aquatic life with long lasting effects

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Avoid release to the environment

Use personal protective equipment as required

If exposed or concerned: Get medical advice/attention

Collect spillage

Store locked up

Dispose of contents/container to a licensed waste disposal contractor or collection site except for empty triple rinsed 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

PCS No. 04510

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Maximum Individual and total Dose	Latest Timing of application
Winter and spring wheat, winter and spring barley, rye and triticale	3.0 L product/ha	Before second node detectable (GS 32)
Method of application:	Tractor mounted/ trailed sprayer	

**SHAKE WELL BEFORE USE
PROTECT FROM FROST
FOR PROFESSIONAL USE ONLY**

Net Contents:
10 litres

Batch No: see bottle

Registered by:

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DIRECTIONS FOR USE

RESTRICTIONS

- Do not apply to durum wheats, undersown cereals or those due to be undersown.
- Do not allow direct spray from ground crop sprayers to fall within 5 m of the top of the bank of a static or flowing water body. Direct spray away from water.
- Avoid spray drift onto neighbouring crops
- Avoid overlapping spray swaths
- Thoroughly wash all spraying and measuring equipment immediately after use.

WEEDS CONTROLLED

IPU 500 can be applied before or after weed emergence. Weed control is by root uptake and foliar action.

Latest growth stages controlled

Litres/hectare	Weed growth stage	Susceptibility
Annual grass weeds		
Bent, Loose silky	3 leaves (BBCH 13)	S
Black-grass*	3 leaves (BBCH 13)	MS
Annual meadow-grass	One tiller †	S
Broad-leaved weeds		
Chickweed, common	6 true leaves (BBCH 16)	S
Corn marigold	2 true leaves (BBCH 12)	S
Hemp-nettle, common	2 true leaves (BBCH 12)	S
Mayweed spp.	6 true leaves (BBCH 16)	S
Poppy, common	2 true leaves (BBCH 12)	S

† Useful control post-emergence only

* Strains of black-grass have developed resistance to isoproturon and this may lead to poor control.

Weeds not controlled

Cleavers	Geranium spp.	Perennial grass weeds
Deadnettle sp.	Oilseed rape, Volunteer	Speedwell spp.
Forget-me-not	Pansy, field	
Gromwell, field	Perennial broad-leaved weeds	

Where these weeds are present IPU 500 can be tank-mixed with a suitable herbicide. Please consult DHM Limited or your distributor.

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 alternating, sequencing or tank mixing with suitable products having a different mode of action. Some populations of black-grass have been identified as being susceptible to Enhanced Metabolism Resistance (EMR)

and control with IPU 500 could therefore be reduced. In these situations additional control measures may need to be considered (e.g. sequences or mixtures with products that have a different mode of action).

When using isoproturon to control black-grass consider the following guidance:

- ALWAYS follow available guidelines for preventing and managing herbicide resistant grass and broad-leaved weeds.
- DO NOT use IPU 500 as the sole means of grass weed or broad-leaved weed control in successive crops.
- 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.

Consult your agronomist for up to date guidance on chemical and integrated control measures that may be appropriate on a local basis.

A strategy for preventing and managing resistance should be adopted. The Herbicide Resistance Action Committee (HRAC) produces guidelines that may be consulted for additional information.

CROP SPECIFIC INFORMATION

All commercially available varieties of winter wheat (excluding durum), winter barley, spring barley, spring wheat, rye and triticale can be treated with IPU 500.

Application rate: 3.0 L/product/ha

Apply in the autumn post-emergence of crop until before second node detectable stage of crop growth (GS32). Autumn drilled spring wheat can be treated in the spring.

The residual action of IPU 500 will be reduced on soils with more than 10% organic matter and application on these soils should only be made in the spring.

One treatment per crop.

All commercially available varieties of winter wheat (excluding durum), winter barley, spring wheat, rye and triticale. Early sown crops e.g. September drilled, may be prone to damage if spraying should precede or coincide with a period of rapid growth in the autumn.

Apply in 200 to 400 L/water/ha.

MIXING AND SPRAYING

Pressure: 2-3 bar
Spray quality: MEDIUM

SUCCEEDING CROPS

If crop failure occurs for whatever reason following application of IPU 500, an interval of 90 days after autumn application or 30 days after spring application should occur before planting any broad-leaved crop. Deep ploughing should be carried out prior to planting any succeeding crop.

COMPATIBILITY

All the requirements or restrictions on other product labels must be adhered to when tank mixing with IPU 500, which should be added to the tank first when mixing with other products. Continuous agitation must be maintained.

COMPANY ADVISORY INFORMATION

ACKNOWLEDGEMENTS

TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

All goods supplied by DHM Ltd. are high grade and we believe them to be suitable for the purpose for which we expressly supply them: but as we cannot exercise any control over their mixing, use or 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 for any damage or injury whatsoever arising from their storage, handling, re-application or use. These conditions cannot be varied by our staff, our agents or the re-sellers of the product whether or not they supervise or assist in the use of such goods.