



Blutron[®]

with TransCel[®] Technology

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Packed in Cartons
of 4 x 5 Litre

A liquid suspension formulation containing 250 g/litre isoproturon and 50 g/litre diflufenican.
For the control of annual meadow-grass and annual broad-leaved weeds in winter wheat and winter barley
Product Registration No. MAPP 16712

Blutron – contains 250 g/litre isoproturon and 50 g/litre diflufenican.

WARNING:

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

Use personal protective equipment as required
If exposed or concerned: Get medical advice/attention
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.

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



PEEL BACK FOR DIRECTIONS FOR USE LEAFLET

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

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE:

Crops	Maximum Individual Dose	Maximum Number of Treatments	Latest Time of Application
Winter wheat and winter barley	1 litre product/ha	One per crop	Before second node detectable stage (BBCH 32)

Other specific restrictions:

The maximum concentration must not exceed 1 litre of product in 300 litres of water.

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.

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 GLOVES when handling the concentrate or handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH PRODUCT from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

Environmental Protection

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 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 12 metres of the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. **THIS CROP IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME.**

This product qualifies for inclusion within the Local

Environment Risk Assessment for Pesticides (LERAP) scheme.

The statutory buffer zone must be maintained and the distance recorded in the LERAP record form. The results of the LERAP record form must be kept available for three years. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place under lock and key.

EMPTY CONTAINER COMPLETELY 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

- Only treat healthy crops that are unaffected by frost, disease, pests or nutrient deficiency.
- Crops should be drilled at least 25mm deep and be well covered by soil.
- Certain soil conditions can adversely affect herbicidal performance.
- Frost within four weeks of treatment may lead to crop damage.
- Crops sown in early autumn (e.g. September) may be damaged if treatment immediately precedes a period of rapid growth in the autumn.
- Spray when crops are actively growing in moist soil. Prolonged dry weather after spraying will reduce weed control, especially grass weeds germinating below the surface layer.
- DO NOT roll or harrow within seven days prior to treatment or at any time afterwards.
- DO NOT apply to spring wheat, durum wheat, spring barley, oats, undersown cereals or those to be undersown.
- Do not treat broadcast crops as uncovered seed may be damaged.
- Do not roll autumn treated crops until the spring.
- Ensure that spray swaths do not overlap.
- Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area

WEEDS CONTROLLED

Susceptible under good growing conditions when application made pre-weed emergence.

Annual meadow grass ¹	Common chickweed	Common groundsel
Common poppy	Ivy-leaved speedwell	Scentless mayweed

¹ Annual meadow grass is susceptible from pre-emergence up to post-emergence at the one leaf stage. At the 1-2 leaf stage it is moderately susceptible and moderately resistant at later growth stages

Susceptible under good growing conditions when application made post-weed emergence (up to 2 true leaves)

Annual meadow grass ¹	Common chickweed	Common field speedwell
Common poppy		

¹ Annual meadow grass is susceptible from pre-emergence up to post-emergence at the one leaf stage. At the 1-2 leaf stage it is moderately susceptible and moderately resistant at later growth stages

Moderately Susceptible under good growing conditions when application made post-weed emergence (up to 2 true leaves)

Field pansy Ivy-leaved speedwell

RESISTANCE MANAGEMENT

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 such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group (WRAG) and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

Use a long-term strategy for the prevention and management of herbicide resistant weeds and follow the published WRAG guidelines. Suitable components of an effective strategy will include the following measures and practices:

Make maximum use of complementary weed control practices and cultural methods of control including crop rotation, ploughing, the use of stale seedbed techniques and delayed drilling wherever possible.

Do not use Blutron as the only means of weed control on crops in two consecutive seasons. Use grass and broad-leaved weed control products with alternative modes of action throughout the rotation.

Check weed populations regularly, monitor any incidence of poor control, confirm which herbicides the weeds are resistant to and take appropriate action. Report any unexpected results to Agform Ltd.

Use the correct spray nozzles to maximize coverage and implement good spraying practices.

CROP SPECIFIC INFORMATION

Winter wheat and winter barley

Apply pre-emergence or early post-emergence of the crop in the autumn or spring. Earlier spraying is desirable as more variable results are seen from spring applications.

Apply Blutron at 1.0 litres of product in 300 - 400 litres of water per ha as an autumn or spring treatment. Apply post-emergence of the crop. The latest time of application is before second node detectable stage (GS32). Best results will be obtained from applications made preemergence or early post-emergence of the weeds.

Do not make more than one treatment per crop.

All commercially available varieties of winter wheat and winter barley may be treated post-emergence.

SOILS

Blutron may be used on all soil types except those containing more than 10% organic matter. Crop safety and weed control can be affected by certain factors.

- Best results are achieved from crops grown on a firm, fine seedbeds, with clods no greater than fist size.
- Weed control may be improved by burying and dispersing previous crop and weed residues to a depth of at least 150mm
- Crop safety and weed control may be reduced on open, free-draining or stony soils if heavy rain falls soon after treatment.
- Crops on waterlogged or poorly drained soils should not be treated.
- DO NOT USE on cracked soils or where there is any risk of run-off through drains.
- DO NOT USE on sands or very stony or gravelly soils as there is a risk of crop damage.
- It is possible that on soils with a high Kd factor (>6) that efficacy will be reduced.

FOLLOWING CROPS IN THE EVENT OF CROP FAILURE

If a crop treated with Blutron fails for any reason, observe the instructions in the table below for planting a following crop

CROP TO BE PLANTED FOLLOWING FAILURE OF THE TREATED CROP	CULTIVATION AND TIMING REQUIRED PRIOR TO PLANTING FOLLOWING CROP
Winter Wheat	Use normal cultivations as necessary, ploughing is not required. Re-drill at any time
Winter Barley	The soil must be ploughed prior to re-drilling. Re-drill at any time
Spring Wheat, Spring Barley, Spring Oilseed Rape, Peas, Spring Field Beans, Sugar Beet, Potatoes, Carrots, Edible Brassicas, Onions.	The soil must be ploughed and an interval of at least 20 weeks must elapse prior to drilling these spring-sown crops
Any other crop not listed above	Do not re-drill with any crop not listed above until the autumn after treatment.

FOLLOWING CROPS IN THE ROTATION

Where Blutron or any other product containing diflufenican has been applied to successive cereal crops, levels of diflufenican will build up in the soil. In these circumstances, ploughing with complete inversion of the furrow must take place before planting any following non-cereal crop. Even

where ploughing is carried out there is a risk of damage to following crops of onions, leek and related species, or clover. If diflufenican products are applied over several years, other crops may be affected. Users who rent out their land to growers of these crops should not use products containing diflufenican in successive years prior to renting out the land.

CROPPING IN THE NORMAL ROTATION – AUTUMN CROPS

CROP TO BE PLANTED IN THE AUTUMN FOLLOWING A CROP TREATED WITH BLUTRON	CULTIVATIONS REQUIRED
Sugar beet seed crops Winter onions	The soil must be ploughed to a depth of at least 15 cm with complete inversion of the furrow slice and avoiding excessive soil compaction
Leaf brassicae Field beans Winter oilseed rape	Plough or cultivate to a depth of at least 15 cm ensuring the soil is mixed thoroughly.
Winter Cereals	Plough or cultivate to a depth of at least 15 cm and drill normally
Any other crop not listed above	Do not plant any crop not listed

* The cotyledons of some seedlings may exhibit slight discoloration but this effect is quickly outgrown and subsequent growth should not be affected.

CROPPING IN THE NORMAL ROTATION – SPRING PLANTED CROPS

The land treated with Blutron must be ploughed prior to planting any spring crop except cereal crops, leaf brassicae, field beans or oilseed rape

MIXING AND SPRAYING

Apply through tractor mounted or trailed hydraulic sprayer fitter with flat fan nozzles. Apply as a medium spray as defined by BCPC.

Half fill the sprayer tank with clean water and begin agitation. Before use, shake the container well, then add the required quantity into the spray tank and allow to disperse fully. Rinse the container thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add the washings to the sprayer and continue agitation whilst topping up the tank with water to the required level. Continue agitation until the mix is sprayed out. Spray immediately after mixing, do not allow the mixture to stand. If tank-mixes are used, add each product to the sprayer tank separately, and follow any specific instructions on the order of mixing for the partner product(s).

If an induction bowl or suction probe filling system is to be used, consult the instructions from the manufacturers of the equipment.

Tank cleaning procedure

1. Drain tank completely then flush tank, boom and hoses with clean water. Drain again.
2. Half fill the tank with clean water and add an ammonia based solution (All Clear Extra, 1.0 litre per 200 litres water). Flush through boom and hoses and then allow to stand for 10 minutes with agitation. Drain completely.
3. To remove traces of detergent, rinse the tank with clean water and flush through booms and hoses.

COMPATIBILITY

Provided that all product recommendations are followed, Blutron is physically and chemically compatible with the following:

- Pincer

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations. It provides additional advice on product use at the discretion of the applicant.

TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

Many factors can affect or influence the activity of this product, including, but not limited to: weather and soil conditions, crop variety, treatment timing, water volume, application rates, spraying techniques, crop rotation, regional factors, and the occurrence and development of strains resistant to the active ingredient. Under certain circumstances, changes in activity or crop damage can occur. The manufacturer or supplier is unable to accept any liability in these circumstances. All goods supplied by us are of a 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, 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.