

Quotient®



MAPP 19969

A suspension concentrate containing 500 g/l of diflufenican.

A selective contact and residual herbicide for the pre- and post-emergence treatment for the control of a wide range of broad-leaved weeds in winter wheat and winter barley, post-emergence treatment in spring barley and as a pre-crop emergence treatment in winter rye and triticale.

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

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.

Environmental protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

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 the distance specified for the crop to the top of the bank of a static or flowing waterbody, or within 1m of the top of a ditch which is dry at the time of application.

Aim spray away from water.

ALL CROPS WITH A BUFFER ZONE GREATER THAN 5M ARE 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.

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 as appropriate to the crop must be maintained.

NOTE ALL BUFFER ZONES OF MORE THAN 5M ARE NOT REDUCIBLE.

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.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

PROTECT FROM FROST
For professional use only.

This label is compliant with the CPA Voluntary Initiative Guidance

Supplied by:
BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport SK1 3GG,
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A suspension concentrate containing 500 g/l of diflufenican.



Warning

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.

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

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

Crops	Maximum individual dose (L product/ha)	Maximum total dose (L product/ha/crop)	Latest timing of application
Barley (winter), Wheat (winter)	0.25 OR 0.2	0.25 OR 0.2	Before the end of February in the year of harvest
Rye (winter), triticale	0.2	0.2	Before second node detectable stage
Barley (spring)	0.125	0.125	Pre-emergence Before second node detectable stage

Crops/situations:	Aquatic buffer zone distance (metres):	Comment:
Barley (spring)	7	See Environmental Protection
Barley (winter), rye (winter), triticale, wheat (winter)	8	
Other specific restrictions: This product must not be applied via hand-held equipment.		

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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07/06/2022

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ml
800

700

600

500

400

300

200
ml



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/Warnings

DO NOT treat oats, spring wheat, undersown cereals or those to be undersown.

Avoid spray drift onto neighbouring crops.

DO NOT direct drill autumn sown broad leaved crops, following the use of QUOTIENT in the previous crop.

DO NOT treat broadcast crops as uncovered seed may be damaged. DO NOT roll autumn treated crops until spring. DO NOT harrow the crop at any time following application. DO NOT apply to soils with greater than 10 % organic matter.

It is possible that on soils with a high Kd factor (greater than 6) the efficacy of QUOTIENT will be reduced.

Do not use on sands (soil texture [85] System) or very stony or gravelly soils due to risk of crop damage.

Do NOT treat shortly after predominantly cold frosty conditions prior to application as they render the crop more susceptible to phytotoxic damage (chlorotic blotching). These effects are transient and do not have any influence on yield.

TREAT ONLY NAMED VARIETIES OF RYE OR TRITICALE.

Weed control

QUOTIENT controls a wide range of broad-leaved weeds as indicated in the table below. Useful control of cleavers can be achieved from pre-emergence up to the 4 true-leaf whorl stage. However where cleavers are a particular problem, application of a specific cleaver control herbicide may be required.

The following weeds are resistant to QUOTIENT: mouse-eared chickweed, toad rush, scarlet pimpernel and grass-weeds.

The following weeds are controlled, pre-weed emergence only, by QUOTIENT at a dose of 0.25 L/ha. Weeds marked * are also controlled pre-weed emergence at 0.2 L/ha.

Corn spurrey*	Common poppy	Treacle mustard
Field forget-me-not*	Flixweed	Volunteer oilseed rape
Field mouse ear*	Red dead-nettle	Wild radish

The following weeds are controlled by QUOTIENT:

Weed	Susceptibility at 0.25 L/ha, pre-emergence up to 4 leave stage	Susceptibility at 0.125 L/ha (spring barley), post emergence to listed stage
Wild radish/Runch	S	MS up to 4 leaves
Common chickweed	S	MS up to 4 leaves

Ivy-leaved speedwell	S	MS up to 4 leaves
Common field speedwell	S	S up to 4 leaves
Shepherds purse	S	-
Thyme leaf sandwort	S	* to 1 leaf
Field pansy	S	-

* When applied to control other weeds QUOTIENT may give useful control of this weed.

S: Susceptible (> 85 % effect)

MS: Moderately susceptible (75-85 % effect)

Resistance Management

GROUP	12	HERBICIDE
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Crop Specific Information

Good weed control depends on burying any trash or straw before or during seedbed preparation. Loose and fluffy seedbeds should be rolled before application. The final seed bed should be fine and firm and should not contain clods greater than fist size.

The crop should be drilled to the normal depth of 2.5 cm. It is important to ensure that the seed is well covered.

Apply via a horizontal boom sprayer. Apply in 200-250 L/ha as MEDIUM spray (BCPC Category). Use the higher volume where the crop or weed foliage is dense. A spray pressure of at least 2 bar is advised. Good, even spray coverage of soil is essential. Ensure that spray swaths do not overlap. Only one application of QUOTIENT should be made to the crop.

Winter wheat and winter barley

Apply 0.25 L/ha of QUOTIENT pre- or post-crop emergence (from the 1st expanded leaf stage, GS 11) to winter wheat and winter barley before the end of February in the year of harvest or alternatively apply 0.2 L/ha of QUOTIENT pre or post-crop emergence (from the 1st expanded leaf stage, GS 11) to winter wheat and winter barley before the second node detectable stage.

Winter rye and triticale

Apply 0.2 L/ha of QUOTIENT pre-crop emergence only. Treat only named varieties of winter rye (Amino, Ashill Pearl, Dominant, Lovaszpatonai, Rheidol, Tetragorzow) and triticale (Aquarius, Bokolo, Clercal, Lasco, Newton, Salvo, Torrs).

Spring barley

Apply 0.125 L/ha of QUOTIENT post-crop emergence, from the start of tillering to before the second node detectable stage (BBCH 21 – 31). It is recommended to make applications on small weeds.

Following Crops

FOLLOWING CROPS AND CROP FAILURE

Plough to 150 mm and thoroughly mix the soil before drilling or planting any following crops (either after crop failure or normal harvest).

CROP FAILURE: In the event of crop failure, for any reason, only re-drill soil treated with QUOTIENT with winter wheat or winter barley after ploughing. A period of 12 weeks must lapse after ploughing before spring crops of wheat, barley, oilseed rape, peas, field beans, sugar beet, potatoes, carrots, edible brassicas or onions may be drilled.

NORMAL HARVEST: In the autumn following normal harvest, only drill winter cereals, oilseed rape, field beans, leaf brassicas, sugar beet seed crops and winter onions. In the spring following normal harvest, only the crops listed above (CROP FAILURE) can be drilled.

Subsequent cropping in the normal rotation

Where QUOTIENT is applied to successive cereal crops, levels of diflufenican will build up in soil. Ploughing to 150 mm with **complete inversion of the furrow must** take place before planting any following non-cereal crop. Even where ploughing is carried out, there may still be a risk of damage to following crops of onions, leek, other allium crops or clover. As a precaution, users who rent out their land to growers of these crops should not use diflufenican containing products in successive years before renting out the land.

Subsequent autumn cropping in the normal rotation

After harvest, soils previously treated with QUOTIENT should be ploughed (ensure complete inversion of the furrow slice) or cultivated to a depth of 15 cm. Thorough mixing of the soil must take place before drilling field beans, leaf brassicae or winter oilseed rape. For sugar beet seed crops and winter onions, the soil must be ploughed ensuring complete inversion of the furrow slice. Avoid excessive compaction. Autumn sown cereals can be drilled as normal. Only drill crops listed. Occasionally in brassica crops some seedlings may show slight discoloration on the cotyledons. These effects are quickly outgrown and should not affect subsequent growth.

Subsequent spring cropping in the normal rotation

Ploughing must take place before planting any spring crop and only the spring crops listed above (under FOLLOWING CROPS AND CROP FAILURE) can be drilled.

Mixing and Application

Mixing

Shake the container well before use. Half fill the spray tank with clean water and add the required amount of QUOTIENT. Wash out the container and add the washings to the spray solution, before topping up with clean water. Do not leave the sprayer filled with the spray solution standing for long periods. Wash out the sprayer thoroughly after use using a wetting agent or proprietary tank cleaner.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after 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. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

The following does not form part of the authorised label text.

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, 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; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.

Section 6 of the Health and Safety at Work Act

Additional Product Safety Information

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

Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



agricentre.basf.co.uk/Quotient/MSDS

Alternatively, contact your supplier.

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