

Herbicide

Mateno[®] DUO

A pre-emergence and early post-emergence herbicide for use against annual meadow-grass, loose silky bent, and a range of annual broad-leaved weeds in winter wheat, winter barley, winter triticale, and winter rye.

A suspension concentrate formulation containing 500 g/L aclonifen and 100 g/L diflufenican.

For use only as an agricultural herbicide.

For 24 hour emergency information contact Bayer CropScience Limited

+44 330 678 3382 (24 hr)
(charged as a standard international call to the UK)

**National Poisons Information Centre
Dublin: 01 809 2166**

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Safety information

MATENO[®] DUO

UFI: FAQ0-S078-800P-TNK5
Contains 500 g/L aclonifen and
100 g/L diflufenican.



Warning

Suspected of causing cancer.

Very toxic to aquatic life with long lasting effects.

Obtain special instructions before use.

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

IF exposed or concerned: call a POISON CENTRE/doctor.

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple-rinsed empty containers which can be disposed of as non-hazardous waste.

Contains aclonifen, 1,2-benzisothiazole-3(2H)-one, and mixture of 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone at the ratio of 3:1. May produce an allergic reaction.

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

PCS No. 07588

GROUP 12 | 32 HERBICIDES



Mateno[®] DUO

IE91245285a rA1b

SAFETY PRECAUTIONS

Operator 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. 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 of 5 metres to surface
water bodies. Do not allow direct
overspray of static or flowing
surface waters.

Extreme care must be taken to
avoid spray drift onto non-crop
plants outside of the target area.

Storage and Disposal

KEEP AWAY FROM FOOD,
DRINK AND ANIMAL FEEDING
STUFFS.

KEEP OUT OF REACH OF
CHILDREN.

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

WASH OUT CONTAINER
THOROUGHLY by using an
integrated pressure rinsing device
or manually rinsing three times.
Add washings to sprayer at time
of filling and dispose of safely.

This material and its container
must be disposed of in a safe
way.



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

www.bayercropscience.ie/sds/matenoduo.pdf

or alternatively contact your supplier

Authorisation holder: Bayer CropScience Ltd., PO Box 1582,
Cambridge, CB1 0FE, UK

Marketing company: Bayer CropScience Ltd, Bayer Ltd,
1st Floor, The Grange Offices, The Grange, Brewery Road,
Stillorgan, Co. Dublin A94 H2K7 Freephone: 1800 818534

Bayer

READ ALL INSTRUCTIONS CAREFULLY BEFORE USE

Crop	Max. single dose	Max. no. of applications	Max. total dose	Latest time of application
Winter wheat, winter triticale	0.7 L/ha Or 0.35 L/ha	1 per crop	0.7 L/ha Or 0.35 L/ha	Pre-emergence of the crop BBCH 13
Winter barley, winter rye	0.35 L/ha	1 per crop	0.35 L/ha	BBCH 13

Other specific restrictions:

To protect aquatic organisms, do not apply this product to land parcels where an intersecting watercourse* is present.

*** An 'intersecting watercourse' means where a land parcel is sloped towards a watercourse and any surface water run-off would drain into that watercourse.**

Application may be made pre- or post-emergence of the crop. The higher application rate of 0.7 L/ha may only be applied to winter wheat and winter triticale, and only pre-emergence of the crop. Application at 0.35 L/ha may be made to any of the crops up to and including the three leaves unfolded stage of the crop.

Method of application: tractor mounted/trailed horizontal boom sprayer.

For professional use only.

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 treat undersown cereals or those due to be undersown.

Avoid treating crops suffering from stress as a result of drought, waterlogging, grazing, pests or disease attack, nutrient deficiency, soil compaction or other factors reducing crop growth.

Adverse crop effect (paling, chlorosis, reduction in vigour and biomass reduction) may occur when there is very wet weather before and after application, particularly on crops grown on light, free-draining soils or where soils become waterlogged. These effects are typically transient in nature and will normally have no adverse effect on crop yield.

Avoid use on waterlogged soils or on crops subject to temporary waterlogging by heavy rainfall, as there is a risk of transitory chlorosis and biomass reduction.

DO NOT use on sands or very light soils (ADAS 85 classification) or very stony or gravelly soils as there is a risk of crop damage.

Shallow drilled crops should only be treated post-emergence.

DO NOT treat broadcast crops as uncovered seed may be damaged.

DO NOT soil incorporate.

Avoid spraying during periods of prolonged or severe frosts as sharp or severe frosts following application may cause transitory discoloration or scorch from which the crop will normally recover.

DO NOT use on soils containing more than 10% organic matter.

DO NOT disturb the soil after application (e.g. by harrowing or rolling).

HERBICIDE RESISTANCE MANAGEMENT

This product contains aclonifen and diflufenican, classified by the Herbicide Resistance Action Committee as 'Group 32' and 'Group 12.' 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 to be resistant to a herbicide if it survives a correctly-applied treatment at the recommended dose. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from Teagasc, your distributor, crop adviser or product manufacturer.

Key aspects of the MATENO DUO Resistance Management Strategy are:

- ALWAYS follow WRAG guidelines for preventing and managing herbicide resistant weeds.
- DO NOT use MATENO DUO as a stand-alone treatment for grass weed control. Use other effective herbicides with alternative modes of action in the same crop and/or in the rotation.
- DO NOT use MATENO DUO as the sole means of grass weed or broad-leaved weed control in successive crops.
- ALWAYS use grass and broad-leaved weed herbicides with alternative 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.

WEEDS CONTROLLED

MATENO DUO is absorbed through both the shoot and the roots of emerging seedlings as they grow through the layer of herbicide applied to the soil surface. Susceptible weeds can emerge, but these will become chlorotic, their growth will be retarded leading ultimately to death. After application do not disrupt the herbicide layer. Any form of mechanical cultivation or disruption of the soil surface by any other method will reduce the level of weed control provided.

WEED SUSCEPTIBILITY TO MATENO DUO

Weed:	Pre-emergence at 0.35 L/ha	Pre-emergence at 0.7 L/ha	Post-emergence at 0.35 L/ha
Grass Weeds:			
Annual meadow grass	—	—	Moderately resistant
Loose silky bent	—	—	Moderately susceptible
Broad-leaved weeds:			
Cleavers	—	Susceptible	Susceptible
Common chickweed	Susceptible	Susceptible	Susceptible
Common field speedwell	Susceptible	Susceptible	Susceptible
Common poppy	Susceptible	Susceptible	Susceptible
Cranesbill	—	Susceptible	Susceptible
Field forget-me-not	Susceptible	Susceptible	Susceptible
Field pansy	Susceptible	Susceptible	Susceptible

Weed:	Pre-emergence at 0.35 L/ha	Pre-emergence at 0.7 L/ha	Post-emergence at 0.35 L/ha
Groundsel	—	—	Susceptible
Red dead-nettle	—	Susceptible	Susceptible
Scented mayweed	Susceptible	Susceptible	—
Scentless mayweed	—	Susceptible	Susceptible
Shepherd's purse	Susceptible	Susceptible	—
Volunteer oilseed rape	Susceptible	Susceptible	—

Established perennial grasses and broad leaved weeds growing from rootstocks will not be controlled by MATENO DUO. Speed of activity can be slow and is dependent on temperature and growing conditions. Activity can be slow under cool conditions and the final level of weed control may take some time to appear. Some soil moisture is required for MATENO DUO to be activated. Moist soil at and after application is required to give the best results. Best results will be obtained if rain falls within 7 days of application. Residual control may be reduced under prolonged dry conditions.

CROP SPECIFIC INFORMATION

Good weed control depends on burying any trash or straw before or during seedbed preparation.

Seed beds must have a firm, fine tilth. Loose or cloddy seed beds must be consolidated otherwise crop damage may result due to inadequate seed cover. For pre-emergence treatments, seed should be covered with a minimum of 32 mm of settled soil.

Cultivation after spraying will encourage weed germination and reduce the residual activity of MATENO DUO. On mineral soils with a high organic matter content and on peaty or organic soils the residual activity of MATENO DUO may be reduced.

Use at a rate of 0.35 or 0.7 litres of product/ha according to the crop, weeds present and growth stage. Apply via a horizontal boom sprayer in 200 400 litres of water per hectare as a **MEDIUM** spray (BCPC category). Use the higher volume where weed foliage is dense. A spray pressure of at least 2 bars is advised. Good, even spray

coverage of soil and weeds is essential. To minimise any potential yield loss, ensure that spray swaths do not overlap. To prevent damage, extreme care must be taken to avoid drift onto neighbouring crops.

Winter wheat, winter triticale: A single, pre-emergence application of up to 0.7 L/ha, or a single, post-emergence application of 0.35 L/ha may be made. Post-emergence applications may be made up to and including the third true leaf stage of the crop (BBCH 13).

Winter barley, winter rye: A single application of 0.35 L/ha may be made pre- or post-emergence, up to and including the third true leaf stage of the crop (BBCH 13).

FOLLOWING CROPS and CROP FAILURE

In the event of crop failure, for any reason, spring wheat or spring barley can be established after ploughing. Corn or sunflower can be established after deep ploughing. An interval of 12 weeks should elapse between an application of MATENO DUO and replacement crop establishment.

Where MATENO DUO and other products containing diflufenican are applied to successive cereal crops, levels of diflufenican (DFF®) will build up in the soil. Ploughing or cultivation, with complete inversion of the furrow, must take place before planting any following non-cereal crop, except potatoes. Even where ploughing or cultivation is carried out there may still be a risk of damage to following crops of onions, leek and related species, or clover. As a precaution, users who rent out their land to growers of these crops should not use DFF-containing products in successive years before renting out the land.

MIXING

Half fill the spray tank with clean water and add the required amount of MATENO DUO. Wash out the container and add the washings to the spray solution, before topping up with clean water. Maintain continuous agitation of spray solution during mixing and loading and until spraying is complete. 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 with two rinses.