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Herbicide

A pre-emergence herbicide for the control of annual broad leaved weeds in potatoes.

MAPP 19056

A suspension concentrate formulation containing 600 g/L aclonifen.

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

Bayer CropScience Limited
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Safety Information

EMERGER

A suspension concentrate formulation containing 600 g/L aclonifen.

**Warning**

Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

Wear protective gloves.

IF exposed or concerned: 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.

Contains aclonifen and 1,2-benzisothiazolin-3-one.
May produce an allergic reaction.

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

IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop:	Potato
Maximum individual dose:	1.75 L product/ha
Maximum number of treatments:	One per crop
Latest time of application:	Before crop emergence (not less than 42 days before harvest)
Aquatic buffer zone distance:	6 metres
Other specific restrictions:	This product must not be applied via hand-held equipment. Buffer zones greater than 5 m are NOT eligible for buffer zone reduction under the LERAP scheme. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Division's website. These operating conditions must be maintained until the operator is 30 m from the top of the bank of any surface water bodies.

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.

PROTECT FROM FROST

SHAKE WELL BEFORE USE



emergersds

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

www.cropscience.bayer.co.uk/emergersds
or alternatively contact your supplier

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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.

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. 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.

To protect aquatic organisms, respect an unsprayed buffer zone to surface water bodies as specified for the crop. HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Division's website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.

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 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.

NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. 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.

Collect spillage.

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, empty washings into spray tank and dispose of container 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.

Emerger is a diphenylether pre-emergence herbicide for the control of annual broad-leaved weeds in potatoes.

RESTRICTIONS

DO NOT disrupt the soil surface after application as this will reduce the level weed control provided.

PROTECT FROM FROST.

HERBICIDE RESISTANCE MANAGEMENT

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 the HGCA, CPA, your distributor, crop adviser or product manufacturer.

WEEDS CONTROLLED

Emerger is absorbed primarily through the shoot of emerging seedlings as they grow through the layer of herbicide applied pre-emergence to the soil surface. Susceptible weeds can emerge, but these will become chlorotic, their growth will be retarded leading ultimately to death. After pre-emergence 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.

The following annual weeds will be controlled by a pre-emergence application of Emerger at 1.75 L/ha:

Cleavers*	Moderately resistant
Pansy, field	Moderately susceptible
Bindweed, black	Moderately resistant
Fat-hen	Susceptible
Mayweeds	Susceptible
Redshank	Moderately susceptible

*Control of cleavers is reduced in organic soils

Established broad-leaved weeds growing from rootstocks will not be controlled by Emerger. As for other residual herbicides application to a fine, firm seedbed will optimise efficacy. Efficacy will be reduced where application is made to cloddy seedbeds or where there is disruption of the soil surface after application.

CROP SPECIFIC INFORMATION

Emerger may be used on all commercial varieties of potatoes

Apply Emerger at a maximum rate of 1.75 litres of product per hectare. Application must be pre-emergence of the crop and weeds. Apply via a horizontal boom sprayer, in 200 to 400 litres of water per hectare as a **MEDIUM** spray (BCPC category).

Ridges should be well rounded with few clods. Cultivations should produce a soil tilth that requires no further improvement after planting. Cultivation after spraying will encourage weed germination and reduce the residual activity of Emerger. On mineral soils with a high organic matter content and on peaty or organic soils the residual activity of Emerger may be reduced.

Ensure Emerger is applied evenly overall to both sides of potato ridges. Care must be taken to ensure that application takes place before crop emergence.

To prevent damage, extreme care must be taken to avoid drift onto neighbouring crops.

Only one application of Emerger should be made to the crop.

FOLLOWING CROPS and CROP FAILURE

After a potato crop treated with Emerger, oilseed rape, field pea, dwarf french bean, wheat, barley, oat, winter triticale, winter rye, sugar beet, maize, and sunflower can be established in the normal rotation or in the event of failure of the treated crop, provided that cultivation (using cultivator, disc harrow or similar) and thorough mixing of treated soil has been conducted to at least 10 cm depth.

Radish and *phacelia* require a period of at least 120 days after application, or plough to at least 20 cm before drilling.

MIXING

Shake the container well before use. Half fill the spray tank with clean water, begin agitation and add the required amount of Emerger. Wash out the container and add the washings to the spray solution, before topping up with clean water. Continue agitation until spraying is completed. 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.

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