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## Herbicide

For use only as an horticultural herbicide.

For professional use only.

**A pre-emergence herbicide for the control of annual broad leaved weeds and some grass weeds in potatoes, peas and beans.**

A suspension concentrate formulation containing 600 g/L aclonifen.

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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. 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).

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

Obtain special instructions before use.

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

Avoid release to the environment.

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.

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

PCS No. 06190



## 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 product, when applying the product and when handling contaminated surfaces.

**WHEN USING DO NOT EAT, DRINK OR SMOKE**

**AVOID CONTACT WITH SKIN**

**WASH HANDS AND EXPOSED SKIN** before eating and drinking and after work.

**IF YOU FEEL UNWELL,** seek medical advice.

### 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 10 metres to surface water bodies.

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.

**RINSE 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.

**READ ALL INSTRUCTIONS CAREFULLY BEFORE USE.**



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

[www.bayercropscience.ie/sds/emergers.pdf](http://www.bayercropscience.ie/sds/emergers.pdf)

or alternatively contact your supplier

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**Bayer**

Crop	Max. single dose (L/ha)	Max. no. of applications	Max. total dose (L/ha)	Latest time of application
Potatoes (ware crops) Potatoes (seed crops)	3.0	1 per crop	3.0	After furrow formation, no later than one week pre-appearance of potato sprout
Peas (combining) Peas (vining) Beans (French) Beans (navy) Beans (runner) Beans (broad) Field beans	3.0	1 per crop	3.0	After sowing and before germination†

† If Emerger is used more than one week after germination of the crop, and environmental conditions are unfavourable (high humidity, low temperature), crop damage may occur.

## 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 and some grass weeds in potatoes, peas and beans.

Emerger is used pre-emergence of the crops. The surface of the soil should be evenly covered with the product, where its active substance (aclonifen) forms an even film. Clumps on the surface of the soil significantly reduce the effectiveness of the product. To achieve the greatest effect the soil and furrows must be well prepared and sprayed with the herbicide appropriately. Emerger gets into weeds through the cotyledons or the coleoptile (seedlings). Emerger does not stop the germination of weeds, but it affects sprouting weeds to a certain extent, which depends on the internal resources of the seeds, speed of growth of the weeds and volume of absorbed active substance. Typical symptoms of the Emerger effect are as follows: intensive colours and chlorosis appear on the tissues of young, emerging sprouts and shoots. Later, weeds stop growing and perish. Emerger does not get into plants through their roots, so it is not absolutely dependent on soil moisture and temperature at the time of its use. Emerger remains active for 2-3 months.

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.

Follow normal drilling / planting and ensure the seed is well covered.

## RESTRICTIONS

DO NOT disrupt the soil surface after application as this will reduce the level weed control provided. To prevent damage, extreme care must be taken to avoid spray drift onto neighbouring crops.

## 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 Teagasc, 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.

	Susceptibility at 2 L/ha	Susceptibility at 3 L/ha
Annual meadow-grass	S	-
Barnyard grass	-	MS
Black bindweed	-	MS
Black nightshade	-	MS
Cleavers	MS	S
Common chickweed	S	-
Fat-hen	S	-
Field pansy	S	-
Shaggy soldier	-	S
Henbit dead-nettle	S	-
Knotgrass	-	S
Pale persicaria	S	-
Red dead-nettle	S	-
Redshank	-	S
Scented mayweed	S	-

	Susceptibility at 2 L/ha	Susceptibility at 3 L/ha
Shepherd's purse	S	-
Volunteer oilseed rape	S	-

MS - Moderately susceptible

S- Susceptible

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**

Apply via a horizontal boom sprayer, in 200 to 300 litres of water per hectare as a **MEDIUM** spray (BCPC category).

#### **Potatoes**

Emerger may be used on all commercial varieties of potatoes

Apply Emerger at a rate of 2.0–3.0 litres of product per hectare. Application must be pre-emergence of the crop and weeds.

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.

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

#### **Peas and beans**

Apply Emerger at a rate of 2.0–3.0 litres of product per hectare. Application should be made immediately after sowing and before germination of the peas or beans. Only one application of Emerger should be made to the crop. If Emerger is used more than one week after germination of the crop, and environmental conditions are unfavourable (high humidity, low temperature), crop damage may occur.

### **FOLLOWING CROPS and CROP FAILURE**

There are no restrictions on following crops in the normal rotation, provided the soil is cultivated to a depth of 10 cm before sowing.

In the event of crop failure for any reason, spring and winter oilseed rape, spring and winter barley, spring and winter wheat, spring and winter triticale, rye, sugar beet, white mustard, sunflower, maize, peas, beans or soya beans may be sown 3 weeks after using Emerger, provided the soil is cultivated to a depth of 10 cm before sowing.

## **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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