A suspension concentrate formulation containing 600 g/L aclonifen.

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

Safety information. UFI : WOKY-T1.IG-KOD. OF9R A suspension concentrate formulation containing 600 g/L aclonifen. Warning Suspected of causing can' ... Contains aclonifen and 1, ber sothiazolin-3-one. May produce an allero, 31, activ Very toxic to a tic life with long-lasting effects. Obtain special . struct ins before use. Do not nanule until 11 salety precautions hav peen. read and understood. Use, prisonal projective equipment as required. IF exposed or concerned: Get medicanastice/attention. S\*, re locked up. Avoid r lease to the environ int. Coll of spillage. Dispose of contension stainer to a licensed hazardouswaste disposal ontrac or or collection site, except for triple rinschimpty con aine 5 which can be disposed of as no 1-haza dous v 2 e. To avoid risks to human health ...... the environment, comply with the instructions for use. PCS 06798

Crop	Max single dose (L/ha	Max no of .pplications	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 (nuner) Beans (broad) Field beans	3.0	1 per crop	3.0	After sowing and before germination†

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

For use only as a horticultural herbicide



For Professional Use Only

## SAFETY PRECAUTIONS

#### **Operator protection**

Engine ing control of operator exposure must be used where eaconably practicable in addition to the following per analic otective equipment: VEAH SUITABLE PROTECTIVE GLOVES when handling the oduct, 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. In the event of an emergency, call the National Poisons Information Centre, Beaumont Hospital: 01-8092166 or 01 8379964 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 spraver 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

## PROTECT FROM FROST SHAKE THOROUGHLY BEFORE POURING

#### UN3082

Batch number

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## **DIRECTIONS FOR USE OF CLAYTON CLONARD**

# 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.

Clayton Clonard is a diphenylether pre-emergence herbicide for the control of annual broad-leaved weeds and some grass weeds in polatoes, peas and beans. Clayton Clonard 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.

**Clayton Clonard** gets into weeds through the cotyledons or the coleoptile (seedlings).

Clayton Clonard 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 **Clayton Clonard** effect are as follows: intensive colours and chlorosis appear on the tissues of young, emerging sprouts and shoots. Later, weeds stop growing and perish.

Clayton Clonard 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. Clayton Clonard 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 to swill reduce the level weed control provided. To prevent dam, or extreme care must be taken to avoid spray drift onto neighbouring crops.

### HERBICIDE RESISTANCE MANAGEMENT

When herbicides with the same mode of action at our of 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

Clayton Clonard 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 preemergence application of **Clayton Clonard**.

		Susceptibility at 2 L/ha	Susceptibility at 3 L/ha
	Annual meadow-grass	S	-
	Barnyard grass	-	MS
	Black bindweed	-	MS
	Black nightshade	-	-110
	Cleavers	MS	
	Common chickweed	S	-
	Fat-hen		
	Field pansy	S	-
	Shaggy soldier	-	S
	Henbit dead-new	S	-
	Knotgras	-	S
	Pale po sicaria	S	-
	Fud deal nettle	S	•
4	Redrilank		•
	Lented r ayweed	S	
	Shu, ' erd's purse	S	-
	Volunteer oilseed ape	S	-

MS - Moder .ey, sceptil e - Susceptible

Established road-aved v.seds growing from rootstocks will n.c. control d h **Clayton Clonard**. As for other resi ral her, ide , pplication to a fine, firm seedbed will ortin, ne effica / Efficacy will be reduced where application is a de dro dy seedbeds or where there is disruption of the joil surface after application.

### CI P' SPECIFIC INFORMATION

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

#### Potatoes

Clayton Clonard may be used on all commercial varieties of potatoes.

Apply **Clayton Clonard** at a rate of 2.0-3.0 litres of product per hectare.

Application must be preemergence 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 **Clayton Clonard**. On mineral soils with a high organic matter content and on peaty or organic soils the residual activity of **Clayton Clonard** may be reduced.

Ensure **Clayton Clonard** 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 Clayton Clonard should be made to the crop.

#### Peas and beans

Apply **Clayton Clonard** 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 **Clayton Clonard** should be made to the crop.

If **Clayton Clonard** is used more than one week after germ in of the crop, and environmental conditions are unit rour allo (high humidity, low temperature), crop damage may cure.

#### N. XING

Shake the container well before use. Half fill the spray tank who clean water, begin agitation and add the required amount of Clayton Clonard.

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.

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

#### **CONDITIONS OF SUPPLY**

All goods supplied by us are of high quality and we believe them to be correct but, as we cannot exercise control over their storage, handling, mixing or use, or weather conditions before, during and 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, and no responsibility will be accepted by us or resellers 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.