



# Dedalus™

An emulsifiable concentrate containing 120 g/l clethodim. Contains Solvesso 150ND  
A post-emergence herbicide for the control of annual grass weeds in winter oilseed rape, sugar beet and fodder beet.

GROUP 1 HERBICIDE

IMPORTANT INFORMATION  
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE. PROFESSIONAL USE ONLY.

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.

**DANGER/WARNING**

May be fatal if swallowed and enters airways

May cause drowsiness or dizziness

Toxic to aquatic life with long lasting effects

Contains Clethodim. May produce an allergic reaction

Avoid breathing dust/fume/ gas/mist/vapours/spray

Use only outdoors in a well-ventilated area.

Keep container tightly closed

Avoid release to the environment

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTRE or doctor if you feel unwell

Do not eat, drink or smoke when using this product

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

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/ physician

Do NOT induce vomiting

Store in a well-ventilated place. Keep container tightly closed. Store locked up

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

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

In case of emergency contact the Poisons Information Centre Tel: +353 1 8092566 or +353 1 8379964



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**PCS 07399**

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**SHAKE WELL BEFORE USE PROTECT FROM FROST**

Batch No. and manufacturing date: see packing

**5L e**

**IMPORTANT INFORMATION  
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE. PROFESSIONAL USE ONLY.**

Crops	Maximum individual dose of product (litres product/ha)	Max. no. of applications	Maximum total dose	Latest time of application
Oliseed rape (winter)	1.0 L/ha	-	1.0 L/ha	Before the beginning of stem elongation and 120 days before harvest
Sugar beet and fodder beet	1.0 L/ha	-	One per crop	Before row closure and 56 days before harvest

**Other Specific Restrictions**

To avoid the build-up of resistance, do not apply products containing an ACCase inhibitor more than twice in any crop. In addition, do not use this product in mixture or sequence with any other product containing clethodim.  
This product must be used by the use-by date printed on the container or the affixed label. Product remaining after this date must be disposed of via a licensed hazardous waste disposal contractor or collection site.

**SAFETY PRECAUTIONS**

**Operator Protection**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

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

TAKE OFF IMMEDIATELY all contaminated clothing.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

DO NOT BREATHE SPRAY.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

**Environmental Protection**

Do not contaminate surface waters or ditches with chemical or used container. Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards and roads.

**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 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.

### INTRODUCTION

**Dedalus** is a systemic, selective, non-residual herbicide for the post-emergence control of annual and grass weeds in oilseed rape and sugar beet and fodder beet. After application the compound is rapidly absorbed by the treated plant parts and is readily translocated to the root system and to the aerial growing parts of the plant. Typical symptoms on susceptible grass weeds visible 1-2 weeks after application are stunting of growth and yellowing of leaves of the treated plants, followed by plant death.

### WHEN TO SPRAY

Only weeds which have emerged at the time of application will be controlled. The optimum timing of application is:

- From 3 leaves to beginning of tillering for annual grass weeds.

For annual grass weeds, sufficient foliage should have emerged to absorb the spray. It is important also to apply when the weeds have not yet begun to compete with the crop.

**Dedalus** can be used on all soil types.

### WEATHER CONDITIONS

- After application, Dedalus requires at least 12 hours without rain for uptake to be complete.
- Weeds suffering stress because of drought, frost, waterlogging, natural dieback or other environmental conditions will not be growing actively and so will not be well controlled, as such conditions could interfere with uptake and translocation of Dedalus.
- Do not spray in very windy conditions and ensure that spray does not drift onto neighbouring vegetation, especially susceptible types such as cereals (maize particularly) and grasses. The use of drift-reducing nozzle types should be taken as a matter of course to avoid spray drift on adjacent areas, particularly if the product is used on fields adjacent to young cereal crops.
- Do not spray when temperatures or air moisture are very high or very low; the optimal range of temperatures for spraying is 8-25°C, and the optimal air moisture is above 65%.

### WEED CONTROL

SPECIES	RATE OF APPLICATION	TIMING OF APPLICATION (weed stage)
Black-grass	1.0 litre per hectare	3 fully-expanded leaves until the weeds have five tillers. On Annual meadowgrass, the optimal stage of application is 3 fully expanded leaves and beginning of tillering.
Volunteer wheat		
Volunteer barley		
Annual meadow grass		

Do not cultivate for at least two weeks after application to allow time for translocation to occur. Leave a longer interval (up to 3 weeks) if growing conditions are poor.

### Method of application:

Tractor mounted/ trailede horizontal sprayer

### RESISTANCE

Strains of some annual grasses (eg Black-grass, Wild Oats, and Italian Rye-grass) have developed resistance to herbicides, which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. 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.

This product contains clethodim which is an ACCase inhibitor, also classified by the Herbicide Resistance Action Committee as "Group A".

Use only as part of a resistance management strategy that includes cultural methods of control and does not use ACCase inhibitors as the sole chemical method of grass-weed control.

Applying a second product containing an ACCase inhibitor to a crop will increase the risk of resistance development; only use a second ACCase inhibitor to control different weeds at a different timing.

**Dedalus** may control some resistant populations of Black-grass to some other ACCase inhibitors. Do not use reduced doses of **Dedalus** on grassweeds where resistance is suspected. Populations of annual grasses may show resistance to **Dedalus** and will not be fully controlled.

It is recommended to adopt a long-term strategy integrating cultural and chemical measures. The following are the key elements of the resistance management strategy:

Always follow WRAG guidelines for preventing and managing herbicide resistant weeds,

Maximise the use of cultural control measures wherever possible (e.g. crop rotation, ploughing, delayed drilling etc.)

Use tank mixes or sequences of effective herbicides with different modes of action within individual crops, or successive crops (**SEE WARNINGS**)

To reduce the risk of developing resistance applications of **Dedalus** should be made to young, actively growing weeds.

Identify as much as possible the herbicides to which your grass weeds are resistant. This can help you to determine the most appropriate herbicides to use.

Monitor fields regularly and investigate the reasons for any poor control.

#### **RECOMMENDATIONS BY CROP**

Avoid overlapping spray swathes as crop damage and reduced yields could result.

Do not spray if rain or frost is expected, or if the foliage is wet.

Do not spray in very windy conditions and ensure that spray does not drift onto neighbouring vegetation, especially susceptible types such as cereals (maize particularly) and grasses. The use of drift reducing nozzle types should be taken as a matter of course to avoid spray drift on adjacent areas, particularly if the product is used on fields adjacent to young cereal crops.

#### **Oilseed rape (winter):**

It is recommended to apply **Dedalus** at 1 L/ha from the 4 true leaf stage during a period when grass weeds and crop are growing actively in the autumn. Do not apply **Dedalus** after the end of October. Avoid later applications (after mid-October) to earlier flowering or maturing varieties of oilseed rape (6 or above) and to crops drilled on or before 25th August. Avoid any other chemical application within 14 days before or after an application of **Dedalus**. Do not apply immediately after a period of frosty weather. In case of frost occurring some days after application, phytotoxic effects could be observed on the crop.

#### **Sugar beet and fodder beet:**

**Dedalus** can be applied at 1.0 L/ha when the crop has fully expanded cotyledons or first leaves until before row closure.

#### **MIXING AND SPRAYING**

Half fill the spray tank with clean water and start the agitation. Shake the container well before use and pour in the required amount of product. Rinse and empty containers thoroughly and add rinsing's to the spray tank. Add the remainder of the water and continue the agitation until spraying is completed.

Application should be made in water volumes of 200 – 400 litres per hectare.

Application should be made using a FINE or MEDIUM spray as defined by BCPC.

**Dedalus** does not require the addition of any adjuvant.

#### **FOLLOWING CROPS**

Broadleaved crops may be sown at any time following normally harvested crops or the failure of a crop treated with **Dedalus**

It is recommended to wait at least 4 weeks before sowing wheat, barley or maize after a crop treated with **Dedalus**. Soil should be thoroughly cultivated to a depth of 20 cm before sowing.

#### **WARNINGS** Consult processors before using on crops grown for processing

Prevent drift onto crops and plants outside of the target area, especially susceptible graminaceous plants.

Do not apply to crops suffering from stress such as frost, pest or disease attack, previous herbicide treatments, or if rain or frost is expected, or crops of low vigour.

Allow at least 14 days between application of **Dedalus** and other herbicides.

#### *Company terms and Conditions*

#### **SAFETY DATA SHEET**

Safety Data Sheet is available on request.