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BAYER

decis®

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Insecticide

A broad spectrum pyrethroid insecticide for the control of aphids, caterpillars and a range of other pests in a wide range of agricultural and horticultural crops.

An emulsifiable concentrate formulation containing 25 g/L (2.8% w/w) deltamethrin.

For Professional use only.

Authorisation Holder:
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Milton Road, Cambridge, CB4 0WB

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Bayer CropScience Ltd
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The Atrium, Blackthorn Road, Sandyford, Dublin 18

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SAFETY PRECAUTIONS

Operator Protection
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handing the concentrate.

TAKE OFF IMMEDIATELY all contaminated clothing.
WHEN USING, DO NOT EAT, DRINK OR SMOKE.
WASH CONCENTRATE from skin or eyes immediately.
DO NOT BREATHE SPRAY.
WASH HANDS AND EXPOSED SKIN before meals and after work.
IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

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.

When applying by tractor mounted trailed sprayer:
To protect aquatic organisms respect an unsprayed buffer zone of 7m to surface water bodies
When applying by air-assisted sprayer to outdoor raspberries:
To protect aquatic organisms respect an unsprayed buffer zone of 30m to surface water bodies
When applying by air-assisted sprayer to apple and pear:
To protect aquatic organisms respect an unsprayed buffer zone of 50m to surface water bodies
When applying by knapsack sprayer:
To protect aquatic organisms respect an unsprayed buffer zone of 1m to surface water bodies

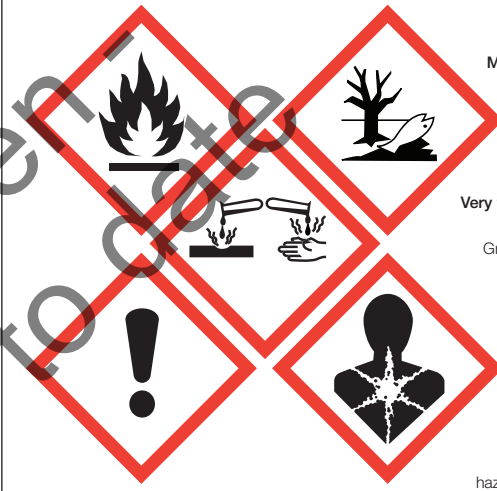
Direct spray away from water.

Storage and Disposal
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
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 3 times.
Add washings to the sprayer at the time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

Safety Information
DECIS
Contains 25 g/L (2.8% w/w) deltamethrin and solvent naptha (petroleum), light aromatic.



Danger
Flammable liquid and vapour
Harmful if swallowed
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye damage
Harmful if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
Very toxic to aquatic life with long lasting effects

Ground/bond container and receiving equipment
Wear protective gloves/protective clothing/eye protection
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned:
Call a POISON CENTER or doctor/physician
Dispose of contents/container to a licenced 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 02693

IE80513119f rA5f

PROTECT FROM FROST STORE IN A SAFE DRY PLACE designated as an agrochemical store.

decisiesds

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

www.bayercropscience.ie/sds/decis.pdf

or alternatively contact your supplier

Bayer

DIRECTIONS FOR USE

IMPORTANT: This leaflet is approved as part of the label. All instructions on this leaflet and on the label should be read carefully in order to obtain successful results from the use of this product.

RESTRICTIONS

For Professional Use Only

DO NOT spray crops suffering from drought or other physical or chemical stress.

DO NOT spray wet crops liable to run-off. Some varieties of ornamentals are particularly sensitive to chemical sprays, so treat a small number of plants first to determine the reaction.

Do not apply this product in tank mixture with a triazole-containing fungicide when bees are likely to be actively foraging in the crop. Consult manufacturer.

PROTECT FROM FROST

STORE IN A SAFE DRY PLACE designated as an agrochemical store

Decis is rainfast 1 hour after spraying. It can be applied in frosty weather provided foliage is not covered with ice.

Very high temperatures, greater than 35°C (greater than 95°F) may reduce efficacy or persistence.

PESTS CONTROLLED

Please refer to Crop Specific Information section.

The possible development of pests resistant to Decis cannot be excluded or predicted. Where such resistant strains occur, Decis is unlikely to give satisfactory control. When certain insects may develop resistance to Bayer products and since such circumstances are beyond our control, Bayer will be under no liability for any loss or damage whatsoever.

CROP SPECIFIC INFORMATION (See below)

APPLICATION

Sprayers should be THOROUGHLY CLEANED before use and filters and jets checked for damage and blockages.

200-1500 litres of water per hectare depending on crop and pest

A pressure of 2-8 bar (30-40 psi) is recommended.

Apply as a **MEDIUM** quality spray (as defined by BCPC). Decis is not systemic and it is, therefore, important that the amount of water is sufficient to permit good spray coverage of the foliage, particularly in beans, peas, glasshouse crops and ornamentals. Use only nozzles designed and recommended for the volume to be applied.

For use in tractor mounted/trailed sprayer, orchard blast sprayer and knapsack sprayer.

CROP SPECIFIC INFORMATION. Rate of Use

Crops:	Maximum individual dose	Maximum total dose	Latest time of application
Broad bean, field bean, combining pea, vining pea	300 ml/ha	600 ml/ha/crop	7 days before harvest
Cauliflower	300 ml/ha	900 ml/ha/crop	7 days before harvest
Brussels sprout, cabbage	300 ml/ha	600 ml/ha/crop	7 days before harvest
Lettuce (outdoor)	250 ml/ha	750 ml/ha/crop	7 days before harvest
Mustard (spring), oilseed rape (spring)	300 ml/ha	900 ml/ha/crop	Before end of flowering (GS 69) (not less than 45 days before harvest)
Mustard (winter), oilseed rape (winter)	300 ml/ha	1200 ml/ha/crop	Before end of flowering (GS 69) (not less than 45 days before harvest)
Sugar beet, swede, turnip	300 ml/ha	300 ml/ha/crop	30 days before harvest
Wheat (winter), barley (winter) and oats (winter)	250 ml/ha	750 ml/ha/crop	Before soft dough stage (GS 85) (not less than 30 days before harvest)
Barley (spring), oats (spring) and wheat (spring)	250 ml/ha	500 ml/ha/crop	Before soft dough stage (GS 85) (not less than 30 days before harvest)
Apples and pears	350 ml/ha	1050 ml/ha/crop	7 days before harvest
Raspberries	500 ml/ha	1500 ml/ha/crop	7 days before harvest
Cucumber (protected), tomato (protected)	70 ml/100 litres water	Maximum number of treatments 3 per crop	7 days before harvest
Pepper (protected)	50 ml/100 litres water	Maximum number of treatments 3 per crop	7 days before harvest
Flower/foliage and woody ornamental plant production (outdoor & protected)	70 ml/100 litres water	Maximum number of treatments 3 per crop	-

Wheat and Barley
For the control of Barley Yellow Dwarf Virus (and some control of *Opomyza*).
Where BYDV has been a problem: For crops drilled before mid-September, spray when aphids are first found in the crop or in mid-October. If the crop is sprayed before early October, a second spray in early November may be beneficial. For crops drilled mid-September to early October, spray any time from mid-October to early November.
Where BYDV has not been a problem or if drilled after early October: Spray any time from late October to early November if aphids found or on specialist advice.
In mild winters further sprays may be needed
Dose: 200 ml/ha in 200 litres of water

For the control of *Opomyza* (yellow cereal fly). Apply at start of egg hatch (normally late January to February) or according to specialist advice. Crops most at risk are those drilled before mid-October in fields with a history of *Opomyza.*
Dose: 250 ml/ha in at least 200 litres of water.

Wheat, Barley and oats
For the control of aphids on ears. Apply when two-thirds or more of heads are infested and numbers increasing (equivalent to 5 aphids per head).
Dose: 250 ml/ha in at least 200 litres of water.

Brussels sprouts, cabbage and cauliflower
For the control of caterpillars (and some control of aphids †† and whitefly).
For **Non-routine treatment**; apply at the first stage of attack or as a preventative spray.
Dose: 300 ml/ha in at least 400 litres of water.

For **pre-harvest clean-up,** a reduced dose may be used when only short persistence of the product is required and applied 7 days prior to harvest.
Dose: 150 ml/ha in at least 400 litres of water.

For the control of brassica flea beetle *(Phyllotreta spp.)*, apply when damage is first seen. Repeat at 14-day intervals if necessary.
Dose: 300 ml/ha in 200-400 litres of water.

Peas and Bean (broad, and field)
For the control of pea and bean weevil, apply at first signs of adult damage (leaf notching). Repeat after 2-3 weeks if prolonged and heavy attack.
Dose: 300 ml/ha in 200-400 litres of water.
Pea midge; Apply sprays when local warnings indicate for control of pea midge and improvement in pod numbers. A second application may be necessary if the risk remains high.
Dose: 250 m/ha in 200 - 400 litres of water.

Peas
For the control of pea moth (and some control of pea aphids). Apply according to the pea moth pheromone trapping system in conjunction with specialist advice.
Dose: 250 ml/ha in at least 400 litres of water.

Sugar Beet, swedes, turnips
For the control of flea beetle, apply at the first signs of damage.
Dose: 300 ml/ha in 200-400 litres of water.

Spring Oilseed Rape and Mustard
For the control of pollen beetle. Apply at green bud stage: If pollen beetle numbers are at threshold levels. A second application may be necessary if pest attack is prolonged.
Dose: 300 ml/ha in at least 200 litres of water.
For the control of cabbage seed weevil, brassica pod midge, apply at green to yellow bud stage if cabbage seed weevil numbers are at threshold levels. Repeat during flowering if pest attack is prolonged. Applications during flowering will also give control of brassica pod midge.
Dose: 300 ml/ha in at least 200 litres of water when applied during flowering.

Winter Oilseed Rape
For some control of Beet Western Yellows Virus (BWYV), best results will be obtained by spraying at the 2-4 leaf stage, but spraying at 5-10 leaves can give good control.

Dose: 250 ml/ha in 200 litres of water.

For control of cabbage stem flea beetle and useful control, of rape winter stem weevil, Apply when adults are seen to be causing leaf damage, usually late August to October. Spray for flea beetle larvae once they can be found in leaf stalks, usually late October/ early November. A second spray may be necessary to control later hatches

Dose: 250 ml/ha in 200 litres of water

For control of pollen beetle, apply at green bud stage: If pollen beetle numbers are at threshold levels. A second application may be necessary if pest attack is prolonged.

Dose: 300 ml/ha in at least 200 litres of water.

For control of cabbage seed weevil, brassica pod midge, Decis can be applied at any time during the flowering period if cabbage seed weevil numbers are at threshold levels, but best results will be obtained from applications made at the end of flowering on the main raceme (GS 49), usually 75% petal fall. Later applications may not prove effective as Decis is primarily a contact insecticide. There is no spray threshold for brassica pod midge. Treatment decision should be based on previous local experience. Applications for seed weevil will also control brassica pod midge.

Dose: 300 ml/ha in at least 200 litres of water

Lettuce (outdoor):
For the control of cutworms. Apply when pest first seen. Use a second spray if necessary. Dose: 250 ml/ha in at least 1000 litres of water.

HORTICULTURAL CROPS

Apples:

For the control of caterpillars, apple sucker, apple grass aphid. Apply at green cluster. For the control of codling and tortrix moth, sawfly, late capsid. Apply at about mid-June or 10-14 days after light or pheromone traps first record a steady emergence of moths. A further application may be applied three weeks later. A third spray may be necessary in late July or early August if tortrix moths are a problem.
Dose: 350 ml/ha in at least 200 litres of water or High Volume: 20 ml per 100 litres of water.

Pears:
For the control of pear sucker# (overwintered adults, eggs and nymphs). Apply Pre-blossom - At any stage between bud burst and white bud or Post-blossom - At first signs of pest build-up, any time from petal fall onwards. Do not apply during blossom period.
Dose: 350 ml/ha in at least 200 litres of water or High Volume: 20 ml per 100 litres of water.

Raspberries (outdoor):
For the control of raspberry beetle. Apply when about 80% of the blossom is over (usually mid June). (One spray when pink fruit is seen is usually adequate although for high quality dessert fruit two sprays may be applied). A further application may be made when the first fruit is colouring, (usually about 2 weeks later).
Dose: Conventional volume only: 500 ml/ha in 1000 litres of water.

Glasshouse crops :-cucumbers, tomatoes, and ornamental plant production (ornamentals and pot plants):
For the control of whitefly‡, scale insects, aphids, caterpillars, mealy bugs. Apply when pest first seen. For whitefly, thoroughly wet plants, especially leaf under-surface. Repeat application as required:
Dose: High volume only 70 ml per 100 litres of water.

Glasshouse crops :- peppers
For the reduction of caterpillars: apply when pest first seen. Repeat application as required:
Some effect on whitefly‡, scale insects, aphids and mealy bugs may also be seen.
Dose: High volume only 50 ml per 100 litres of water.

Ornamentals plant production (outdoor ornamentals, trees, shrubs and nursery stock) and amenity vegetation (outdoor ornamentals, trees and shrubs)
For the control of whitefly‡, scale insects, caterpillars, capsids, thrips, aphids, mealy bugs. Apply when pest first seen. For whitefly, thoroughly wet plants, especially leaf under-surface. Repeat as required.
Dose: High volume only 70 ml per 100 litres of water*.

†† Strains of some aphid species are resistant to many aphicides. Where aphids resistant to products containing pyrethroid insecticides occur, Decis is unlikely to give satisfactory control.

‡ Glasshouse whitefly strains resistant to one or more groups of insecticides are widespread. Where strains resistant to products containing pyrethroid insecticides occur, Decis is unlikely to give satisfactory control.
Note: resistant strains of the tobacco whitefly are also known to occur.

Pear suckers resistant to one or more groups of insecticides are widespread. Where strains resistant to products containing pyrethroid insecticides occur, Decis is unlikely to give satisfactory control. Where repeat treatments are necessary use different active ingredients.

RESISTANCE MANAGEMENT STRATEGY

Total reliance on one pesticide will hasten the development of resistance; pesticides of different chemical types or alternative control measures should be included in a planned programme.

Alternating insecticides with different modes of action is a recognised anti-resistance strategy and Decis should always be used in alternation with other insecticides of a different mode of action where available. Decis should always be applied at the recommended rate of use and in sufficient water volume to achieve the required spray penetration into the crop and uniform coverage necessary for optimal pest control.

MIXING AND APPLICATION

Prior to mixing EC formulations, such as Decis, it is particularly important to thoroughly wash out the sprayer using a recommended detergent. Solvents in EC formulations can remove pesticides adhering to the tank and other parts of the sprayer.

Shake well before use. Add the required quantity immediately at the beginning of filling the spray tank with water. Keep the spray agitation in action and add the required quantity of water. Continue agitation until spraying is completed. After spraying, thoroughly wash out the spray tank.

Pro-Rata rates for use in knapsack sprayer (glasshouse crops and ornamental uses).

Dose rate of 70 ml per 100 litres of water use 7ml 10L water in a knapsack
Dose rate of 50 ml per 100 litres of water use 5ml 10L water in a knapsack