



envidor®

1L e

Insecticide

A ketoenol insecticide for the control of mite and insect pests on apples and pears.

MAPP 17518

A suspension concentrate formulation containing 240 g/L spirodiclofen.

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

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road, Cambridge CB4 0WB
Telephone: 01223 226500

For 24 hour emergency information contact Bayer CropScience Ltd.
Telephone: 00800 1020 3333.



Safety Information

ENVIDOR

Contains 240 g/L spirodiclofen



Danger

May cause cancer.
Suspected of damaging fertility.
May cause damage to organs through prolonged and repeated exposure.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.
Wear protective gloves/protective clothing/eye protection/face protection.

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.

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

IMPORTANT INFORMATION FOR USE ONLY AS AN HORTICULTURAL INSECTICIDE

Crops:	Apples and pears
Maximum individual dose (litres product/ha):	0.6 litres product/ha
Maximum number of applications:	One per crop
Latest time of application:	14 days before harvest.

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.



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

www.cropscience.bayer.co.uk/envidorsds
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**PROTECT FROM FROST
SHAKE WELL BEFORE USE**

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SAFETY PRECAUTIONS

Operator Protection

Spray equipment must only be used where the operator's normal working position is within a closed cab on a tractor or on a self propelled sprayer when making broadcast air-assisted applications to apples and pears.

Other engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES

when handling contaminated surfaces.

However engineering control 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 ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 15 m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 m of the top of a ditch which is dry at the time of application. Aim spray away from water.



This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme for BROADCAST AIR-ASSISTED SPRAYERS ONLY. Before each spraying operation from a broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with HSE's published guidance or the statutory buffer zone must be maintained. The result of the LERAP must be recorded and kept available for three years.

DANGEROUS TO BEES. To protect bees and pollinating insects do not apply to crop plants in flower. Do not use when bees are actively foraging. Do not apply when flowering weeds are present.

RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS. See directions for use.

Do not contaminate water with the product or its container, do not clean application equipment near the surface water. Avoid contamination via drains from farmyards and roads.

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.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

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 container safely.

DIRECTIONS FOR USE

IMPORTANT: This leaflet is approved as part of the Product 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 AND WARNINGS

This product is dangerous to honeybees and bumblebees. It must not be applied to plants in flower or plants that are being actively visited by honeybees or bumblebees.

The best available application technique, which minimises off-target drift should be used to reduce effects on non-target insects or other arthropods.

Consult processor before use on crops grown for processing, or for use in cider production.

PESTS CONTROLLED

Envidor is a ketoenol insecticide with a mode of action as a lipid synthesis inhibitor.

Fruit tree red spider mite (*Panonychus ulmi*)

Two-spotted spider mite (*Tetranychus urticae*)

Apple and pear rust mites (*Aculus schlechtendali*, *Epitrimerus pyri*)[†]

Pear sucker (*Cacopsylla pyricola*)

Mussel scale (*Lepidosaphes ulmi*)^{††}

For optimum efficacy application early in the pest development cycle is necessary. Young larval stages are most susceptible.

[†]Limited data indicates that Envidor can provide good control of rust mites. Applications should be timed to coincide with the beginning of conditions that favour the pest (typically shortly after flowering) to ensure that eggs and young larval stages are the principal targets. Alternatively, application in summer against a mixed population of eggs, larvae and adult mites can be carried out but efficacy may be reduced.

^{††}Limited data indicates that Envidor is effective against mussel scales when applied during the mobile 'crawler' phase of the pest in late spring/early summer (typically late May). Field experience has indicated that about 1-2 weeks after blossom is the optimal application timing on apples.

CROP SPECIFIC INFORMATION

Rate: Apply Envidor at 0.6 litres per hectare where trees are large (3 metres or greater foliar canopy height).

Where tree height and or canopy density is reduced, the dose (and water volume) should be adjusted in accordance with an appropriate dose adjustment scheme, for example PACE. Consult your specialist advisor for further information. Further information on the PACE scheme is available from AHDB, or see the AHDB leaflet available also at HSE's website.

It is important, particularly when spraying post-blossom, to achieve full penetration of the leaf canopy and uniform coverage of the foliage and blossoms or fruitlets.

Apples and pears, to control fruit tree red spider mite (*Panonychus ulmi*). In orchards where populations of fruit tree red spider mite winter eggs are above threshold numbers and where populations of predatory mites are inadequate apply the product in spring when 10% of the mite larvae have emerged from their winter eggs, or apply immediately after flowering should this coincide with the flowering period. Alternatively, application in summer against a mixed population of summer eggs, larvae and adult mites can be carried out but efficacy may be reduced (see statement regarding optimal efficacy in PESTS CONTROLLED section).

Apples and pears, to control rust mites (*Aculus schlechtendali*, *Epitrimerus pyri*). Applications should be timed to coincide with the beginning of conditions that favour the pest (typically shortly after flowering) to ensure that eggs and young larval stages are the principal targets. Alternatively, application in summer against a mixed population of eggs, larvae and adult mites can be carried out but efficacy may be reduced (see statement regarding optimal efficacy in PESTS CONTROLLED section)

Apples and pears, to control two-spotted spider mite (*Tetranychus urticae*). Apply the product as soon as infestation is observed.

Pears, to control pear sucker (*Cacopsylla pyricola*).

Apply the product when the eggs are about to hatch (when they are yellow-orange in colour). Envidor is effective on early larval stages but not on the adult form. High water volumes are recommended for this pest to ensure thorough coverage.

Apples and pears, to control Mussel scales (*Lepidosaphes ulmi*).

Limited data indicates that Envidor is effective against mussel scales when applied during the mobile 'crawler' phase of the pest in late spring/early summer (typically late May). Field experience has indicated that about 1-2 weeks after blossom is the optimal application timing.

PESTICIDE 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. The compatibility of Envidor with Integrated Pest Management programmes has not been established and safety cannot be assumed. Hazardous to non-target arthropods (predatory mites) if applied repeatedly. Avoid unnecessary exposure.

Alternating insecticides with different modes of action is a recognised anti-resistance strategy. To further minimise the likelihood of less susceptible pest strains arising, Envidor should always be applied at the full 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.

No more than 1 application of a lipid synthesis inhibitor (e.g. spiroticlofen, spiromesifen) should be made on apples and pears.

Monitoring should be conducted to detect early signs of resistance. If signs of reduced efficacy become evident, follow-up treatments should not be carried out with an active ingredient of the same chemical class.

Mixing and Spraying

Thoroughly shake the pack before use.

Add the required quantity of Envidor to the half-filled spray tank with the agitation system in operation, and fill to the required level. Continue agitation at all times during spraying and stoppages until tank is completely empty. Spray immediately after mixing. On emptying the container, 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 container safely.

Water volumes:

500 litres/ha up to 1,500 litres/ha. Water volume can be adjusted to suit height of crop. It is important to ensure full coverage of the crop and pest for optimum control. For control of Pear sucker water volumes of at least 800 litres/ha are recommended.

Spray Quality: MEDIUM/FINE (as defined by BCPC).

After application, completely drain spray equipment. Thoroughly rinse sprayer and flush the hoses, boom and nozzles with clean water. Dispose of waste rinse water safely.

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