

FUNGICIDE



SWITCH[®]

A water dispersible granule formulation containing 37.5% w/w cyprodinil and 25% w/w fludioxonil

A broad spectrum fungicide for use on fresh beans (green, runner, broad), dried beans (dwarf French bean, navy bean [phaseolus], kidney beans, haricot beans, dried broad beans), vining pea and edible podded pea, dried peas (combining peas including marrowfat), protected and outdoor strawberry, protected and outdoor raspberry and blackberry, outdoor crops of blueberry, bilberry, cranberry, redcurrant, blackcurrant, whitecurrant, gooseberry, top fruit (apple, pear, quince, crab apple) and ornamental plant production and forestry nursery.

Product registration number: **MAPP 13185**

Outstanding *Botrytis* (grey mould) control with activity against a range of other fungal diseases including *Alternaria*, *Ascochyta*, *Colletotrichum*, *Fusarium*, *Gloeosporium*, *Monilinia*, *Mycosphaerella*, *Nectria*, *Penicillium*, *Sclerotinia*, *Stemphylium* and *Venturia*.

Two complementary active ingredients with new chemistry giving built-in resistance management by combining two different modes of action.

New May 2008:

Approvals extended to a number of additional crops.

fargro[®]

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ALWAYS READ THE LABEL. USE PESTICIDES SAFELY

SWITCH

Two complementary active ingredients:-

Fludioxonil is a potent protectant which largely remains on the leaf surface protecting from fungal penetration.

Cyprodinil is translaminar and systemic entering the leaf inhibiting fungal mycelial growth and plant penetration.

Two ingredients from different chemical groups with different modes of action reduce the likelihood of resistance for some diseases, however for others only one component will have activity. Fludioxonil is the only phenylpyrrole fungicide active ingredient at present. Cyprodinil is from the anilinopyrimidine fungicide group; alternation for fungicide resistance management purposes with other products from this group (for example mepanipyrim and pyrimethanil) is not advised.

The following text is taken from the approved product label:

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

PROPERTIES OF SWITCH

SWITCH is a fungicide containing cyprodinil and fludioxonil and is best used as a protectant treatment or in the earliest stages of disease development.

SWITCH may be used as part of a programme of sprays. To maintain a high level of protection, and to prevent or limit the development of *Botrytis* strains less sensitive to the product, applications of SWITCH should not be made consecutively but should be used in alternation with fungicides with different modes of action, with satisfactory efficacy against the pathogen.

DISEASES CONTROLLED

Fresh and Dried Beans

Botrytis (grey mould) [Moderate control],
Sclerotinia sclerotiorum.

Fresh and Dried Peas

Mycosphaerella pinodes, *Ascochyta pisi*
(both giving a useful level of control),
Botrytis (grey mould) [Moderate control],
Sclerotinia sclerotiorum.

Strawberries

Botrytis (grey mould)

*Black spot (*Colletotrichum acutatum*)

* QUALIFIED MINOR USE RECOMMENDATION. The evidence of effectiveness against black spot is limited.

Protected and Outdoor Raspberry, Blackberry

Botrytis

Outdoor crops Ribes Spp.(Redcurrant, Blackcurrant, Whitecurrant, Gooseberry) and Other berries (Blueberry, Bilberry, Cranberry)

*Botrytis**

* QUALIFIED MINOR USE RECOMMENDATION. The evidence of effectiveness against botrytis on these crops is limited.

Apples, Crab Apples, Quince and Pears

When SWITCH is applied in a pre-harvest spray programme a reduction in the following orchard and storage rots may be achieved:

Botrytis cinerea (*Botryotinia fuckeliana*)

Monilinia spp.

Nectria spp.

Penicillium spp.
Colletotrichum spp.
Fusarium spp.
Gloeosporium spp.
Alternaria spp.
Venturia spp.

Pears

Stemphylium vesicarium (brown spot)
[Moderate control]

Ornamental plant production and forestry nursery

Botrytis.

CROP SPECIFIC INFORMATION

Best results will be achieved from applications of SWITCH made in the earliest stage of disease development or as a protective treatment following a disease risk assessment or the use of appropriate support systems.

FRESH BEANS (Dwarf French, green, runner, broad beans) and DRIED BEANS (Dwarf french, navy [phaseolus], kidney, haricot, dried broad beans)

RATE OF USE

1 kg product per hectare.

TIMING

SWITCH should be applied at the first signs of disease infection, from early flowering onwards.

A second application may be required if disease pressure remains high. Allow a minimum of 10 days between applications for all crops.

BEANS FOR PROCESSING

Where a crop of beans is destined for processing, consult your processor before treating with SWITCH.

VINING PEAS, EDIBLE PODDED PEAS AND DRIED PEAS (combining peas including marrowfat)

RATE OF USE

1 kg product per hectare.

TIMING

SWITCH should be applied at the first sign of disease infection, from early flowering onwards.

A second application may be required if disease pressure remains high. Allow a minimum of 10 days between applications for all crops.

CROP SAFETY

SWITCH shows good crop safety on vining peas. Before applying ensure the crop is free from any stress caused by environment or agronomic effects. Check wax level if necessary using the Crystal Violet test.

PEAS FOR PROCESSING

Where a crop of peas is destined for processing, consult your processor before treating with SWITCH.

PROTECTED AND OUTDOOR STRAWBERRIES

RATE OF USE

1 kg product per hectare.

TIMING

For optimum results apply SWITCH as a protectant spray at the beginning of blossom (white bud). A second application of SWITCH can be made if disease pressure remains high. Application should be made in sequence with other products as part of a fungicide programme during flowering at a minimum interval of 10 days.

STRAWBERRIES FOR PROCESSING

Where a crop of strawberries is destined for processing, consult your processor before treating with SWITCH.

RASPBERRY AND BLACKBERRY

RATE OF USE

1 kg product per hectare

TIMING

SWITCH should be applied as a protectant spray from early flower (white bud).

A further two applications may be required if disease pressure remains high. Allow a minimum of 10 days between applications for all crops.

PROCESSING

Where a crop of fruit is destined for processing, consult your processor before treating with SWITCH.

OUTDOOR CROPS OF BLUEBERRY, BILBERRY, CRANBERRY, REDCURRANT, BLACKCURRANT, WHITECURRANT AND GOOSEBERRY

RATE OF USE

1 kg product per hectare

TIMING

SWITCH should be applied as a protectant spray from late grape stage of currants and first open flower for gooseberry and other berries.

A further two applications may be required if disease pressure remains high. Allow a minimum of 10 days between the first and second application and 28 days between the second and third application.

PROCESSING

Where a crop of fruit is destined for processing, consult your processor before treating with SWITCH.

APPLE, CRAB APPLE, QUINCE AND PEAR

RATE OF USE

0.8 kg product per hectare

TIMING

For optimum results apply SWITCH as a protectant spray from the beginning of flowering. Two further applications of SWITCH can be made if disease pressure remains high up to 3 days prior to harvest. Application should be made in sequence with other products as part of a fungicide programme. Allow a minimum of 7 days between applications.

For best control of *Stemphylium* in pears three applications should be made shortly after fruit set in late May and early June.

ORNAMENTAL PLANT PRODUCTION AND FORESTRY NURSERY (outdoor and protected)

RATE OF USE

1 kg product per hectare (OUTDOOR)

0.8 kg product per hectare (PROTECTED)

TIMING

SWITCH should be applied as a protectant spray.

A further two applications may be required if disease pressure remains high. Allow a minimum of 7 days between applications.

CROP TOLERANCE

SWITCH has been successfully used at the recommended doses on a range of species and cultivars without crop damage. However because of the large number of species and cultivars of ornamentals, the cultivar susceptibility should always be checked by treating a small number of plants in the first instance.

Multiple applications of SWITCH to Anemone, Begonia, Kalanchoë have shown some phytotoxicity symptoms there-

fore it is advised to limit the number of applications to two with an extended application interval of 10 days.

Use only a single application on Saint Paulia.

Application to *Exacum affine* and *Impatiens spp.* is advised against.

RECOMMENDATIONS

MIXING AND SPRAYING

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of clean water and start agitation. Add the required amount of SWITCH to the spray tank. Agitate the mixture thoroughly before use and continue agitation during spraying. Thoroughly wash all spray equipment with water immediately after use.

Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling. Complete filling to the required volume and continue to agitate throughout the spraying operation.

Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight).

VOLUME OF WATER AND SPRAYING

Apply SWITCH through conventional crop spraying equipment using a medium quality spray (BCPC) at a pressure of at least 2 bar.

Fresh beans, fresh peas and dried peas

Apply in at least 200 litres of water per hectare.

Protected and outdoor strawberry

Protected strawberries - Apply in at least 600 litres of water per hectare.

Outdoor strawberries - Apply in at least 500 litres of water per hectare.

Redcurrant, blackcurrant, whitecurrant, gooseberry, blueberry, bilberry, cranberry, raspberry and blackberry.

Apply in at least 800 litres of water per hectare.

Apple, pear, quince, crab apple and dried beans

Apply in at least 400 litres of water per hectare.

Ornamental plant production and forestry nursery

Apply in a maximum concentration of 80 grams product per 100 litres of water

AFTER SPRAYING

Thoroughly wash out sprayer according to manufacturer's guidelines and dispose of washings and clean containers according to DEFRA Code of Practice and local water authority guidelines.

RESISTANCE MANAGEMENT

In order to minimise the likelihood of the development of resistance, it is recommended that SWITCH should be used in a programme with products of different chemical groups. Alternating or mixing fungicides with different modes of actions is a recognised disease resistance management strategy.

SWITCH contains cyprodinil, an anilinopyrimidine chemical. Application should be made in accordance with the FRAC Anilinopyrimidine (AP) working group botrytis guidelines.

Where only 2 applications are made per season, the number of anilinopyrimidine products should be limited to 1. Where up to 6 botrytis treatments are made per crop and season, a maximum of 2 applications of anilinopyrimidine-containing products are recommended. Where more than 6 fungicide treatments are made per crop and season, a maximum of 3 applications of anilinopyrimidine-containing products

are recommended.

COMPATIBILITY

For information on the approval status for use in tank mixture consult your supplier or SYNGENTA.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with the pack.

IMPORTANT INFORMATION				
FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL FUNGICIDE.				
Crops/ situations	Maximum individual dose (kg product/ha)	Maximum number of treatments (per crop)	Latest time of application (days before harvest)	Minimum interval between applications (days)
Runner bean, broad bean and dwarf French bean (excluding harvested dry)	1	2	14	10
Broad bean harvested dry, dwarf French bean harvested dry and combining pea.	1	2	28	10
Vining pea and edible podded pea	1	2	14	10
Strawberry	1	2	3	10
Raspberry, blackberry	1	3	14	10
Outdoor crops of blueberry bilberry, cranberry, redcurrant, blackcurrant, whitecurrant, gooseberry.	1	3	10	1 st to 2 nd -10 days. 2 nd to 3 rd -28 days.
Apple, crab apple, pear, quince	0.8	3	3	7
Ornamental plant production and forestry nursery (outdoor)	1	3	-	7
Ornamental plant production and forestry nursery (protected)	0.8	3	-	7
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.				

SAFETY PRECAUTIONS

(a) 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.

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), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when handling the product.

*Minimum requirement disposable filtering facepiece respirator to EN149 FFP2 or equivalent

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

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

(b) Environmental Protection

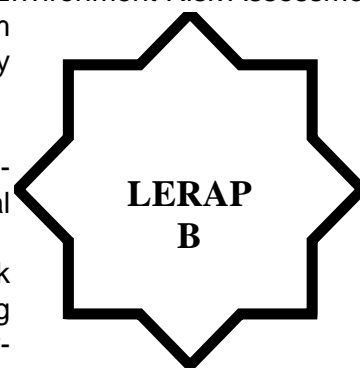
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 20 m[#] or 10 m^{##} of the top of the bank of a static or flowing waterbody, unless a Local Environment 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.

[#] for applications to apple, crab apple, pear and quince.

^{##} for applications to blackberry, raspberry, blueberry, bilberry, cranberry, redcurrant, whitecurrant, blackcurrant, gooseberry, ornamental plant production and forest nursery.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.



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.

(c) Storage and disposal

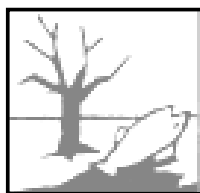
KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add the washings to the sprayer tank at the time of filling and dispose of container safely.

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

Switch

A water dispersible granule formulation containing 37.5% w/w cyprodinil and 25% w/w fludioxonil.



**DANGEROUS
FOR THE
ENVIRONMENT**

Contains cyprodinil. May produce an allergic reaction.

**VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE
LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVI-
RONMENT.**

Keep out of reach of children.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feeding stuffs.

This material and its container must be disposed of in a safe way.

Use appropriate containment to avoid environmental contamination.

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

PROTECT FROM FROST.
STORE IN A COOL, DRY PLACE.

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'off - label' approval or is otherwise permitted under the Control of Pesticides Regulations. The information on the label is based on the best available information including data from test results.

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Approval Holder:

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Pack Size: 1 kg

Outers of: 10 x 1 kg

Safety data sheet available on request.

In case of toxic or transport emergency with Switch ring 01484 538444 any time.

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