



TECHNICAL NOTES FOR USE OF SWITCH[®] ON ORNAMENALS

These notes are designed to give growers additional information on the use of Switch (MAPP 13185) on ornamental crops.

SWITCH APPROVAL BACKGROUND

SWITCH gained on-label approval for use on protected and outdoor ornamental plant production in spring 2008 and has approval for use on a wide range of fruit and vegetable crops (refer to label for details).

PRODUCT SUMMARY

SWITCH is a mixture of two active ingredients, cyprodinil and fludioxonil, both of which have different modes of action. SWITCH provides excellent control of *Botrytis* and has additional activity against a range of other diseases.

SWITCH has long lasting protectant and systemic activity and the two active ingredients provide a built-in resistance management mechanism.

DISEASE CONTROL SPECTRUM

SWITCH is approved in ornamental plant production for the control of *Botrytis*. SWITCH also has activity on a range of other diseases including *Alternaria*, *Ascochyta*, *Colletotrichum*, *Fusarium*, *Gloeosporium*, *Monilinia*, *Mycosphaerella*, *Nectria*, *Penicillium*, *Sclerotinia*, *Stemphylium* and *Venturia*.

These fungi can cause leaf and stem spotting, powdery mildew, scab and sclerotinia diseases,

however use against these diseases on ornamentals is not a label recommendation.

RATE OF USE FOR ORNAMENALS

SWITCH should be used at 1 kg of product per hectare on outdoor ornamental plant production and at 0.8 kg of product per hectare on protected ornamental plant production.

A maximum concentration of 80 g / 100 litres should be used.

Rates vary with other crops, see label (or main product manual insert) for more information.

TIMING AND FREQUENCY OF APPLICATION

SWITCH should be applied as a protectant spray. No more than 3 applications may be made with a minimum interval of 7 days. The timing and frequency vary with other crops, see label (or main product manual insert) for more information.

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.

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ALWAYS READ THE LABEL: USE PESTICIDES SAFELY

Alternating or mixing fungicides with different modes of actions is a recognised disease resistance management strategy.

secutively but should be used in alternation with fungicides with different modes of action, with satisfactory efficacy against the target pathogen.

Applications of SWITCH should not be made con-

For more details see label (or main product manual insert).

ORNAMENTALS CROP SAFETY

SWITCH has been successfully used at the recommended doses on a range of species and cultivars without crop damage.

Ornamental crops treated include the following:

<i>Ageratum</i>	Fuchsia	Lobelia	Poinsettia
<i>Antirrhinum</i>	<i>Gaultheria</i>	<i>Lonicera</i>	<i>Portulaca oleracea</i>
<i>Arctotis</i> (daisy)	Gazania	Lupin	Primrose
<i>Begonia tubereux</i>	Gerbera	Marigold	Rose
Cabbage (ornamental)	<i>Gypsophila</i>	<i>Matthiola</i>	<i>Senecio</i>
Carnation	Hydrangea (Hortensia)	<i>Nemesia</i>	<i>Statice</i>
Chrysanthemum	<i>Irsine</i>	Paeony	<i>Thuja</i>
Cineraria	Ivy (<i>Hedera</i>)	Pansy	<i>Ulex</i>
Cyclamen	<i>Kalanchoe</i>	<i>Passiflora ligularis</i>	<i>Viburnum</i>
<i>Diosma</i>	<i>Lamium</i>	Petunia	<i>Vinca</i>
<i>Ficus</i>	<i>Lisianthus</i>	Phlox	

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 with SWITCH in the first instance.

Multiple applications of SWITCH to Anemone, Begonia and Kalanchoë have shown some phytotoxicity symptoms, therefore it is advisable to limit the number of applications to two with an extended application interval of 10 days.

Use only a single application to Saintpaulia.

Application to *Exacum affine*, geranium (*Pelargonium* spp), and *Impatiens* spp. is not advised.

Do not apply to open flowers or during periods of high temperature and high humidity (in excess of 80% RH).

SWITCH may leave a spray residue on some crops with waxy leaves following multiple applications. A suitable approved non-ionic wetter may reduce this affect when making applications to such crops.

SWITCH is available from Fargro and its distributors throughout the UK.

SWITCH contains contains 37.5% w/w cyprodinil and 25% w/w fludioxonil

Approval Holder:

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

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