Subdue®



Product registration number: MAPP 12503

Soluble Liquid containing 465.2g/l (44.7% w/w) metalaxyl-M.

A systemic fungicide for the control of *Pythium spp.* and *Phytophthora spp.* in outdoor and protected ornamental crops and flower bulbs.

Marketing Company & Approval Holder:

Syngenta UK Ltd, CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE Tel: Cambridge (01223) 883400

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

In case of toxic or transport emergency ring +44 (0)1484 538444 any time



This product label is compliant with the CPA Voluntary Initiative (VI) guidance.

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SUBDUE®

Soluble liquid containing 465.2 g/l (44.7% w/w) metalaxyl-M Warning

Harmful if swallowed.

Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection/face protection.

If eye irritation persists: 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.



MAPP 12503

IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

Crops/ situations: Ornamental plant production.

Maximum number of treatments: }
Maximum total dose:

Full details are given in Important Information on attached leaflet.
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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

equipment.

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 FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle-mounted

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

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves. TAKE OFF IMMEDIATELY all contaminated clothing.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

AFTER CONTACT WITH SKIN OR EYES, WASH IMMEDIATELY with plenty of water.

WASH HANDS AND EXPOSED SKIN before meals and after work

(b) 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.

(c) Storage and disposal

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 rinsingthree times. Add washings to sprayer at time of filling and dispose of safely.

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IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

Crops/ situations	Maximum individual dose	Maximum total dose	Maximum number of treatments
Ornamental plant production (outdoor)	Media treatment: 12.5 ml product/m³	-	1
	Drench application: 1.25 L product/ha	-	1
Ornamental plant production	Media treatment: 18.75 ml product/m³	-	1
(protected)	Drench application: 18.75 ml product/ 100 m ²	28.15 ml product/ 100 m ²	-

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.

This leaflet is part of 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.

RESTRICTIONS

Strains of Pythium spp and Phytophthora spp may exist which are resistant to phenylamides. Where resistance is confirmed, disease control may be significantly reduced. Apply SUBDUE under good growing conditions with adequate potting media moisture. Avoid poor growing conditions which may give less reliable results. SUBDUE should be used in an integrated pesticide management strategy, and where appropriate, alternated with products from different chemical groups.

Disinfect pots thoroughly prior to re-use.

Potting media from treated plants should not be re-used for subsequent crops.

Unnecessary exposure of non-target arthropods should be avoided.

Crop tolerance

SUBDUE 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.

Application to Viburnum and Prunus species is advised against.

RESISTANCE MANAGEMENT

Metalaxyl-M belongs to the phenylamide group. In order to minimise the risk of resistance to phenylamide compounds, application of SUBDUE should be made with due regard to the FRAG-UK quidelines.

The number of phenylamide applications should be limited to 1-2 consecutive applications depending on the crop.

Ideally SUBDUE should be used as a preventative treatment.

DISEASES CONTROLLED

SUBDUE is a systemic fungicide for the control of *Pythium* spp. and *Phytophthora* spp. in ornamentals.

CROP SPECIFIC INFORMATION

Protected containerised ornamental crops

Potted plants, for the control of root rot caused by Pythium and Phytophthora.

Pre-potting, media treatment

Shortly before use of the potting media, spray the required amount of SUBDUE over the media and mix through as evenly as possible.

<u>Dose:</u> 12.5-18.75 ml per m3 potting media, to be sprayed in 5-10 litres water. The dose

depends on the organic matter content of the potting media. Use the highest dose for potting media containing >10% organic matter.

**Drenching treatment after sticking cuttings, planting out or potting

Treatment can be carried out preventatively or curatively. Preferably apply the SUBDUE solution onto moist media. Irrigate overhead immediately after application so that the product can penetrate into the rooting zone and any residues of SUBDUE are washed from the leaves.

Preventative drench application

<u>Dose:</u> 6.25 - 9.4 ml in 100 litres water. Drench volume should correspond to 10% of the pot volume. Use the highest dose for rot-sensitive crops.

Curative drench application

<u>Dose:</u> 9.4 - 12.5 ml in 100 litres water. Drench volume should correspond to 10% of the pot volume. Use the highest dose if infection is severe.

Protected soil-grown ornamental crops

Chrysanthemum - in the culture of chrysanthemums, SUBDUE can be applied preventatively as well as

curatively for the control of root rot caused by Pythium.

Preventative application - pre-planting

Spray SUBDUE over the soil shortly before planting and incorporate to a depth of 10 cm by means of a rotary cultivator.

Dose: 18.75 ml per 100 m2 to be sprayed in 6 to 10 litres water.

Curative drench application

SUBDUE can be applied as a high volume spray, followed by overhead irrigation with sufficient water to allow the product to penetrate and contact the root systems.

<u>Dose</u>: 4 - 6.25 ml per 100 m2. Use at least 30 litres water per 100 m2 to wash the product into the root zone. If necessary, repeat application after 2 to 3 weeks using the same rate.

Carnation, for the control of root rot (*Phytophthora* spp.)

Apply SUBDUE as soon as the first symptoms of infection become visible. SUBDUE can be applied as a high volume spray followed by overhead irrigation with sufficient water to allow the product to penetrate and contact the root systems.

Bose: 18.75 ml per 100 m2. Irrigate with 6 - 10 litres water per 100 m2 to wash the product into the root zone. If necessary, repeat treatment after 3 weeks with 9.4 ml per 100 m2

Outdoor containerised ornamental crops

For the control of root rot (Phytophthora cinnamom)

Preventative application - pre-potting media treatment

Shortly before use of the potting media the required amount of SUBDUE should be sprayed over the media and mixed through as evenly as possible.

Dose: 12.5 ml per m3 potting media in 5 - 10 litres water.

Preventative application - post-potting drench

If necessary, SUBDUE can be applied as a preventative drench during crop production. The potting media must be moist at the time of application.

<u>Dose:</u> 6.25 ml per 100 litres water. Drench volume should correspond to 10% of the pot volume.

Bulb culture

Outdoor flower bulb crops of crocus, hyacinth and iris, for the control of root rot (Pvthium).

Preventative application - pre-planting

Carry out furrow treatment during planting.

<u>Dose:</u> Crocus: 0.75 l/ha. Hyacinth, iris: 1.0 l/ha. If a heavy Pythium infection is expected, the dose levels should be increased by 0.25 litres per hectare. Apply in a water volume of 3000 litres of water per hectare.

Indoor flower bulb crops of tulip, iris and lily for the control of root rot (*Pythium*). Preventative application - pre-potting

Dose: 2.5 ml per m3 potting media in 5-10 litres water.

BIOLOGICAL COMPATIBILITY

Limited evidence suggests that metalaxyI-M is not harmful to soil dwelling predatory mites, entomopathogenic nematodes (Steinernema feltiae) and microbial amendments (Bacillus subtilis and Trichoderma son.)

For further information, please contact Fargro Ltd.

MIXING AND SPRAYING

Application indoors should be made through a hydraulic nozzle applicator e.g. motorised sprayer with hand lance or boom lance. For outdoor applications, suitable hydraulic nozzle sprayers should be used.

Mixing

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 SUBDUE and continue agitation whilst adding the rest of the water. Agitate the mixture thoroughly before use and continue agitation during spraying.

Thoroughly wash all spraying equipment immediately after use.

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