



A fungicide with protectant and systemic activity against soil borne *Phytophthora* and *Pythium* infections of strawberries and ornamentals.

A water dispersible granule formulation containing 60 g/kg fenamidone and 600 g/kg fosetyl-aluminium.

For Professional use only.

Authorisation Holder:
Bayer CropScience Ltd
230 Cambridge Science Park
Milton Road
Cambridge
CB4 0WB
United Kingdom

Marketing Company:
Bayer CropScience Ltd
Bayer Ltd
The Atrium
Blackthorn Road, Sandyford
Dublin 18
Freephone 1800 818534

For 24 hour emergency information contact Bayer CropScience Ltd

Telephone: 1800 409399

SAFETY PRECAUTIONS

Operator Protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

Wear rubber boots when applying as a dip.

When using do not eat, drink or smoke

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wash hands and exposed skin before meals and after work.

If swallowed, seek medical advice immediately and show this container or label.

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.

Use appropriate containment to avoid environmental contamination.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

Risk to non-target insects or other arthropods. See directions for use.

Storage and Disposal

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 safely. Triple rinsed containers should be punctured to prevent re-use and may be disposed of as non-hazardous waste.

Keep away from food, drink and animal feeding stuffs.

Keep out of reach of children

Keep in original container tightly closed in a safe place.

Empty container completely and dispose of safely.

Do not re-use container for any purpose

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

<p>Safety Information FENOMENAL Contains 60 g/kg fenamidone and 600 g/kg fosetyl-aluminium</p>		<p>Warning Causes serious eye irritation Very toxic to aquatic life with long lasting effects Wear protective gloves/protective clothing/eye protection/face protection If eye irritation persists: Get medical advice/attention Dispose of contents/container to a licenced hazardous-waste disposal contractor or collection site except for empty clean/triple-rinsed 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</p>
		<p>PCS Number: 04956</p>

RATES OF USE. FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.				
Crops/situations:	Maximum individual dose:	Maximum total dose:	Maximum number of treatments: (per year)	Latest time of application:
Ornamental plant production (container grown)	150 g product / 100 L water (drench treatment)	-	3	-
Ornamental plant production	30 kg product / ha (drench treatment)	30 kg product / ha / crop	-	-
	OR 3 kg product/ha (drip treatment on artificial substrate)	3 kg product/ha/year	-	-
Ornamental plant production (propagating material)	100 g product / m ² (soil/compost admixture)	-	-	-
Strawberry (outdoor and protected)	150 g product / 100 L water (dip treatment - 50 ml diluent per plant equivalent to 3 kg product/ha)	See Other Specific Restrictions	-	35 days before harvest
	AND/OR	-	-	-
	75 g product / 100 L water (drench treatment - 100 ml diluent per plant equivalent to 3 kg product/ha)	See Other Specific Restrictions	-	35 days before harvest
	AND/OR	-	-	-
	75 g product / 100 l water (via drip irrigation system) - 100 ml diluent per plant equivalent to 3 kg product/ha)	See Other Specific Restrictions	-	35 days before harvest
AND/OR	-	-	-	-
	4.5 kg product / ha (foliar spray)	See Other Specific Restrictions	-	35 days before harvest
<p>Other Specific Restriction: (1) A maximum of 2 applications are allowed per year to strawberry, 1 dip + 1 drench or 1 dip + 1 drip irrigation or 1 dip + 1 spray or 1 drench + 1 drip irrigation or 1 drench + 1 spray or 1 drip irrigation + 1 spray or 2 drench or 2 drip irrigation.</p>				

DIRECTIONS FOR USE

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

Fenomenal is recommended for control of a range of *Pythium* and *Phytophthora* species that can either kill or greatly reduce the vigour, quality and productivity of strawberry and ornamental plants. Early treatment with a fungicide is essential in high risk situations as treatments are most effective in a preventative regime. Good cultural practice, particularly with respect to soil moisture management can offset the need for fungicide or be used as part of an integrated approach to keep these diseases at bay; plants in regularly saturated soils are at highest risk of infection.

RESTRICTIONS

Avoid spraying within 5 m of the field boundary to reduce effects on non-target insects or other arthropods.

DISEASES CONTROLLED

Outdoor and protected Strawberries	<i>Phytophthora cactorum</i> * – crown/collar rot
Ornamentals	<i>Phytophthora</i> spp. Including: <i>P. cinnamomi</i> , <i>P. nicotianae</i> , <i>P. capsici</i> and <i>P. cryptogea</i> <i>Pythium</i> spp.
Flower Bulbs	<i>Pythium ultimum</i>

*moderate control with spray application

The possible development of disease strains resistant to Fenomenal cannot be excluded or predicted. Where such resistant strains occur, Fenomenal is unlikely to give satisfactory control.

CROP SPECIFIC INFORMATION

Fenomenal has no phytotoxic effects on succeeding crops therefore there is no limitation in the choice of succeeding crops.

STRAWBERRY:

Fenomenal may be applied to strawberries as a pre-transplantation dip or post-transplantation drench or spray. A maximum of 2 applications are allowed to strawberry per year by any application technique: 1 dip + 1 drench or 1 dip + 1 drip irrigation or 1 dip + 1 spray or 1 drench + 1 drip irrigation or 1 drench + 1 spray or 1 drip irrigation + 1 spray or 2 drench or 2 drip irrigation.

Pre-Transplantation Dip Treatment:

Fenomenal may be applied as a pre transplantation dip treatment for traditional and refrigerated 'Frigo' transplants.

Prepare a dip solution containing 150 g of Fenomenal per 100 L of water (in a suitable vessel allowing 50 ml of diluent per plant) and dip all roots of the runners for 15 to 20 minutes.

If necessary top up the dip solution with the same concentration of diluent (150 g Fenomenal per 100 L water). Prepare a fresh suspension every 2 days (or earlier if it becomes too dirty). 100 litres will treat approximately 2,000 runners, depending on cleanliness of the plants.

Hose down dirty plants before dipping. After dipping, allow to dry, before planting immediately.

The maximum rate of product per crop for pre-transplantation dip treatment must not exceed 3 kg product/ha per year (which is equivalent to 40,000 plants/ha treated at the above rate). The maximum number of applications by any technique must follow the "Other Specific Restriction" stated in the Rates of Use box.

Post-transplantation Drench Treatment:

Fenomenal may be applied as a post-transplantation drench treatment for traditional or refrigerated 'Frigo' transplants.

For refrigerated 'Frigo' plants, for cropping in year of planting. Prepare a drench solution of 75 g of Fenomenal per 100L of water, drench each plant with 100ml of drench solution 2 weeks after planting.

For Traditional plantings, planted in the previous year to the year of cropping. Prepare a drench solution of 75 g of Fenomenal per 100L of water, drench each plant with 100ml of drench solution 2 weeks after planting. A second application may be made in the following spring at re-growth.

The maximum individual application rate of product for post-transplantation drench treatment must not exceed 3kg product/ha. Two drench applications are permitted per year. The maximum number of applications by any technique must follow the "Other Specific Restriction" stated in the Rates of Use box.

Post-Transplantation Drip Treatment:

Fenomenal may be applied as a post-transplantation drip treatment for traditional or refrigerated 'Frigo' transplants.

For refrigerated 'Frigo' plants, for cropping in year of planting. Run through the irrigation system at a rate not exceeding 3 kg/ha at a water volume of 100 ml diluent per plant, 2 weeks after planting.

For Traditional plantings, planted in the previous year to the year of cropping. Run through the irrigation system at a rate not exceeding 3 kg/ha at a water volume of 100 ml diluent per plant, 2 weeks after planting. A second application may be made in the following spring at re-growth.

The maximum individual application rate of product for post-transplantation drip irrigation treatment must not exceed 3 kg product/ha. Two drip irrigation applications are permitted per year. The maximum number of applications by any technique must follow the "Other Specific Restriction" stated in the Rates of Use box.

Post-Transplantation Spray Treatment:

Fenomenal may be applied as a post-transplantation spray treatment for traditional or refrigerated 'Frigo' transplants.

For refrigerated 'Frigo' plants, for cropping in year of planting. Fenomenal may be applied as a foliar spray 2 weeks after planting at a maximum individual dose of 4.5 kg product/ha. Use a high water volume (1,000-2000 L/ha) to ensure thorough penetration to the crown of the strawberry plant

For Traditional plantings, planted in the previous year to the year of cropping. Fenomenal may be applied as a foliar spray 2 weeks after planting at a maximum individual dose of 4.5 kg product/ha. Use a high water volume (1,000-2000 L/ha) to ensure thorough penetration to the crown of the strawberry plant. A second application may be made in the following spring at re-growth.

The maximum rate of product per crop as a post transplantation spray treatment must not exceed 4.5 kg product/ha per year. The maximum number of applications by any technique must follow the "Other Specific Restriction" stated in the Rates of Use box.

For all methods of application at least 35 days must be allowed between the final application to strawberry and harvest.

If the strawberry crop is intended for processing consult the processor before use of Fenomenal.

ORNAMENTAL PLANT PRODUCTION

Ornamental plant production (container grown)

Tree Nursery:

Fenomenal may be applied as a drench treatment shortly after planting in a container. Prepare a drench solution of 50 g of Fenomenal per 100 L of water, drench each plant at a rate of 100 ml of drench solution per litre of potting compost/soil. A maximum of 3 applications per year are allowed with a 30 day interval between each application.

The following species of ornamentals have been tested successfully in trials: *Viburnum*, *Pieris*, *Gaultheria*, *Chamaecyparis*, *Erica*. Due to variations in growing conditions and the range of varieties for each species, it is advisable to test for crop tolerance on a small sample of plants before treating the whole crop.

Pot Plants:

Fenomenal may be applied as a drench treatment shortly after planting in a container. Prepare a drench solution of 150 g of Fenomenal per 100 L of water, drench each plant at a rate of 100 ml of drench solution per litre of potting compost/soil. A maximum of 3 applications per year are allowed with a 30 day interval between each application.

The following species of ornamentals have been tested successfully in trials: *Saintpaulia*, *Kalanchoe*, *Rosa*, *Hedera*, *Gloxinia*, *Cyclamen*, *Gerbera*, *Chrysanthemum*. Due to variations in growing conditions and the range of varieties for each species, it is advisable to test for crop tolerance on a small sample of plants before treating the whole crop.

Ornamental plant production

Ornamentals grown as cutflowers in glasshouse soil e.g. *chrysanthemum*

Fenomenal may be applied as a drench treatment shortly after planting. Prepare a drench solution of 100 g of Fenomenal per 100 L of water. The drench should be applied at an application rate of 3 L drench solution/m² (equivalent to 3 g product/m² or 30 kg product/ha).

Ornamentals in glasshouse on artificial substrate e.g. cut flowers

Fenomenal may be applied through a drip irrigation system. Run through the irrigation system at a rate not exceeding 3 kg/ha at a water volume appropriate to the crop stage. Apply as a protectant regime shortly after transplanting.

The maximum individual dose and maximum total dose for this application method is 3 kg/ha.

Ornamental plant production (Propagating material)

Flower bulbs*:

Fenomenal may be applied to compost for use in the production of 'Forced bulbs' grown in boxes. Apply as a spray solution in 20 L water to 'mixing' soil/ compost prior to boxing up bulbs. 100 g / m³ (cubic metre) of soil/compost.

*Limited crop safety data (tulips bulbs only)

Use in IPM systems'

Foliar application of Fenomenal may adversely affect Aphid parasitoids present at the time. Further advice on the use of this product in IPM systems is available from Bayer Crop Science.

MIXING:

Ensure that the sprayer, other applicator type or mixing vessel is clean and set to give the correct volume of application and an even coverage. Half fill the sprayer or container with water then add the recommended quantity of Fenomenal. Add the rest of the water and agitate/mix the mixture thoroughly. The diluted product must only be used on the day of mixing.

APPLICATION:

Fenomenal may be applied as a dip, a drench, a spray or via drip irrigation equipment. For rates, water volumes, timings and restrictions of application see Crop Specific Information. Additional advice is as follows:

Drench applications: For best results when drenching, thoroughly saturate the growing medium. The growing medium should be moist before application.

Foliar sprays: Sprayers should be THOROUGHLY CLEANED before use and filters and jets checked for damage and blockages. Apply as a **MEDIUM** quality spray (as defined by BCPC). For spray application to strawberries the spray boom and water volume should be adjusted to ensure good penetration of the crop, to ensure protection of the 'crowns' of the plants. High water volumes should be used as recommended.

Drip Irrigation: When applying by trickle irrigation systems, Fenomenal should either be diluted in a bulk tank or through an injector type diluter. Please also refer to the equipment manufacturers guidance for use of the equipment.

All application equipment should be washed/cleaned with water or dilute detergent solution and thoroughly rinsed more than once, with washings applied to the crop to be treated whilst keeping within the maximum application rates

For use in tractor mounted/trailed sprayers, knapsacks and drip irrigation systems.

RESISTANCE MANAGEMENT

MANAGEMENT STRATEGY TO MINIMISE THE LIKELIHOOD OF RESISTANCE

Apply fungicides according to manufacturer's recommendations for the target disease (or complex) at the specific crop growth stage indicated. Effective disease management is a critical parameter in delaying the build-up of resistant pathogen populations. Fenomenal is best used preventatively and should not be relied on for its curative potential.

Fenomenal is a mixture of two fungicides with different modes of action – fenamidone belongs to the imidazolinone class of chemistry and inhibits mitochondrial respiration (Qo-I type mode of action), whereas fosetyl-Al belongs to the phosphonates class of chemistry. The precise mode of action for the phosphonates is currently unknown. Fosetyl-Al penetrates the plant and acts against spore germination, mycelial development and sporulation.

Use Fenomenal as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. Use of fungicides which have different modes of action have been shown to protect against the development of resistant forms of disease.

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