

MICROTHIOL SPECIAL[®]

FUNGICIDE

MAPP 19419

A water dispersible granule containing 80% w/w sulphur for use against Powdery Mildew on sugar beet, vines, strawberries, swedes, turnips, winter and spring wheat, barley and oats, and for control of Gall Mite ("Big Bud") in blackcurrants, and for control of American Gooseberry Mildew in Gooseberries.

MICROTHIOL SPECIAL can also be used as a foliar feed on oilseed rape and grassland.

Keep out of reach of children.
Do not eat, drink or smoke when using this product.
Keep only in original container.
Avoid release to the environment.

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

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

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL AGRICULTURAL AND HORTICULTURAL FUNGICIDE AND AS A HORTICULTURAL ACARICIDE

Crops/situations:	Maximum individual dose: (kg product / ha)	Maximum number of treatments:	Latest time of application:
Barley (spring), barley (winter), Oats (spring), oats (winter), wheat (spring), wheat (winter)	10	2 per crop	Before beginning of flowering: first anthers visible [before BBCH 61]
Table grapes (outdoor), wine grapes (outdoor)	See 'Other Specific Restriction 1'	8 per annum	Before berries developing [at BBCH 81]
Gooseberry (outdoor)	See 'Other Specific Restriction 1'	3 per annum	Before fruit ripe for picking, most berries ripe [at BBCH 85]
Blackcurrant and redcurrant (outdoor)	See 'Other specific restriction 2'	3 per annum	Before fruit ripe for picking, most berries ripe [at BBCH 85]
Sugar beet	10	2 per crop	Before the end of September in the year of harvest
Swede (outdoor), turnip (outdoor)	10	2 per crop	Before the end of September in the year of harvest.
Strawberry (outdoor)	See 'Other Specific Restriction 2'	4 per annum	Before beginning of ripening: most fruits white in colour [before BBCH 81].

OTHER SPECIFIC RESTRICTIONS:

- When used on gooseberry and grapevine the maximum concentration must not exceed 250 g of product per 100 litre water.
- When used on blackcurrant/redcurrant and strawberry the maximum concentration must not exceed 200 g of product per 100 litre water.

To protect non target insects/arthropods respect an unsprayed buffer zone of 5 m to non-crop land

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

Operator protection

DO NOT BREATHE DUST.
WHEN USING, DO NOT EAT, DRINK OR SMOKE.
WASH HANDS before meals and after work.

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.

To protect non-target insects/arthropods respect an untreated buffer zone of 5 metres to non-crop land

Storage and disposal

KEEP OUT OF REACH OF CHILDREN.
KEEP AWAY FROM FOOD, DRINKS AND ANIMAL FEEDING STUFFS.
KEEP ONLY IN THE ORIGINAL CONTAINER, tightly closed in a safe place.
Keep dry and lock in a suitable pesticide store.

25 KG
NET CONTENT



For Batch Number and Manufacturing Date see container.

UPL Europe Ltd.

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DIRECTIONS OF USE

IMPORTANT: This information is authorised 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.

As MICROTHIOL SPECIAL is a preventive fungicide, spraying should be carried out before the disease has become established in the crop. Certain varieties of bushes and vines may be damaged by sulphur sprays. The form of the spray, district, soil and weather conditions and type of stock all affect the degree of sulphur shyness. If in doubt, treat a small area with the product first.

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

CROP SPECIFIC INFORMATION

Sugar Beet

Powdery mildew appears in most seasons on sugar beet in the eastern half of the country, south of the River Humber. Yields can be significantly affected due to a reduction in photosynthetic leaf area.

Rate of application: Apply MICROTHIOL SPECIAL at 10 kg per hectare in a water volume between 200-600 litres.

Timing: Apply MICROTHIOL SPECIAL as soon as disease is seen in the crop (BBCH 39-49). A second application may be necessary 2-3 weeks later.

Grapevines

For control of Powdery Mildew under medium pressure. Under high pressure alternative control measures may be required.

Rate of application: Apply at a maximum concentration of 2.5 kg of product per 1000 litres of water per hectare. The maximum concentration must not exceed 250 g product in 100 litres of water.

Timing and minimum interval between applications: Apply on appearance of the disease between BBCH 16-81 and at 10-day intervals thereafter.

Maximum number of applications: 8.

NOTE: DO NOT apply MICROTHIOL SPECIAL near to harvest on grapes intended for wine.

Blackcurrants and Redcurrants

For control of Blackcurrants Gall Mite ("Big Bud").

Rate of application: Apply at a maximum concentration of 2 kg per 1000 litres water high volume. The maximum concentration must not exceed 200 g product in 100 litres of water.

Volume of application between 500-1000 litres per hectare.

Maximum number of applications: 3 at 14-day intervals

Timing and minimum interval between applications: BBCH 57-85. Apply three times from first open blossom with a 14-day interval. An authorised non-ionic wetter should be added to the sprayer tank.

NOTE: DO NOT use on fruit to be used for processing.

Gooseberries

For control of American Gooseberry Mildew.

Rate of application: Apply at a maximum concentration of 2.5 kg per 1000 litres of water high volume. The maximum concentration must not exceed 250 g product in 100 litres of water.

Timing: Apply at early flower and repeat at young fruit and fruit swelling. BBCH 57-85. Good coverage is necessary.

Maximum number of applications: 3 at 14-day intervals

Latest timing of application: Up to and including fruit swell.

NOTE: DO NOT use on the following "Sulphur-shy" varieties: Golden Drop, Leveller, Lord Derby, Careless, Early Sulphur, Roaring Lion, Yellow Rough.

DO NOT use on fruit to be used for processing.

Strawberries

For control of Powdery Mildew.

Rate of application: Apply at a maximum concentration of 2 kg per 1000 litres of water high volume in at least 1125 litres per hectare. The maximum concentration must not exceed 200 g product in 100 litres of water.

Volume per hectare: 1125-2000 litres

Maximum number of applications: 4 at 10-day intervals

Timing and minimum interval between applications: apply as soon as disease appears and repeat at 10-day intervals as necessary. BBCH 61-81.

NOTE: DO NOT use on fruit to be used for processing.

Swedes and Turnips

For moderate control of Powdery Mildew. Powdery mildew is a leaf disease of swedes and turnips which can seriously depress yields.

Rate of application: Apply 10 kg per hectare in 200-600 litres of water per hectare.

Timing and minimum interval between applications: Apply as soon as disease appears in the crop, when the crop meets across the rows (mid-July-August).

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Repeat 2-3 weeks later if weather conditions remain suitable for disease spread. A minimum interval of 7 days must be observed between applications. BBCH 13-49.
Latest timing of application: Before end of September. MICROTHIOL SPECIAL should only be applied if further growth is needed.

Winter and Spring Cereals (Wheat, Barley and Oats)

Powdery Mildew shows as white pustules, growing on the surface of leaves and leaf sheaths. Treatment can give partial control of mildew on winter and spring cereals. However, results may be variable and systemic fungicides can be more reliable, especially in showery weather. Active established mildew may not be adequately controlled by MICROTHIOL SPECIAL.

Rate of application: Apply MICROTHIOL SPECIAL at 10 kg per hectare in 200-400 litres of water.

Timing: BBCH 31 to 59. Apply MICROTHIOL SPECIAL from first node to before beginning of flowering, first anthers visible. Repeat with a second spray with a minimum interval of 10-14 between applications according to disease prevalence.

RESISTANCE MANAGEMENT

A strategy for preventing and managing such resistance should be adopted.

- Maintain the label dose rate.
- Application for preventative control and within the maximum specified number of applications per season.
- Use as part of a spray program in sequence and tank mixtures with other fungicides with different modes of action where relevant.

MIXING

Add the product to the required volume of water in the spray tank. Leave to disperse and then agitate well. Continue effective agitation until spraying is complete.

THE FOLLOWING USES DO NOT FALL WITHIN THE SCOPE OF THE PLANT PROTECTION PRODUCTS REGULATION EC NO. 1107/2009.

Oilseed Rape

An early spring spray gives useful growth promotion which often leads to an increase in the longevity of green leaf area and consequently increased yield.

Rate of application: Apply MICROTHIOL SPECIAL at 10 kg per hectare in 200-500 litres of water. Number of applications: maximum 2 at 14-day interval.

Timing: Apply MICROTHIOL SPECIAL during March at beginning of spring growth. BBCH 31-79.

Grassland

Yield promotion

Rate of application: Apply MICROTHIOL SPECIAL at 10 kg per hectare in 200-450 litres of water.

Timing: Hay or Silage: Apply MICROTHIOL SPECIAL after the first or second cut ensuring there are at least two weeks between spraying and cutting.

Grazing: Apply MICROTHIOL SPECIAL from mid-June to mid-July. Allow at least 3 weeks after re-introducing stock.

Other Crops

Please seek advice from distributor before application to any other crop.

Potatoes, vegetable brassicas, swedes, turnips, vegetables, vines, hops, turf, top fruit and soft fruit.

Rate of application: Apply MICROTHIOL SPECIAL at 10 kg per hectare in 200-450 litres of water. Timing: Apply MICROTHIOL SPECIAL when the crop is actively growing and there is sufficient leaf area to absorb the spray. Spraying should be carried out on a calm day, but not during strong sunshine. Do not spray if rain is imminent.

When sulphur deficiency is very severe, a repeat application should be made after 10-14 days.

DO NOT APPLY TO SULPHUR SHY VARIETIES OF CROPS

CONDITIONS OF SUPPLY

All goods supplied by the company are of good quality and we believe them to be fit for purpose. However, as we cannot exercise control over their storage, handling, mixing or use or the weather conditions before, during or after application, which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or resellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use.

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