

**■ BASF**

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# Highgate®



## MAPP 15251

A suspension concentrate containing 133 g/l (12% w/w) boscalid and 60 g/l (5.4% w/w) metconazole.

Highgate is a protectant and systemic fungicide for use against late-season diseases in oilseed rape.

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

### SAFETY PRECAUTIONS

#### Operator protection

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the product.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

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

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

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 aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements. DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre from 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 1m of the top of the bank of a static or flowing waterbody.

Aim spray away from water.

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 CRD'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.

#### Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

STORE 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 rinsing three times.

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

Store in a suitable pesticide store. Keep dry and protect from frost.

This label is compliant with the CPA Voluntary Initiative Guidance



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Supplied by: BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport SK1 3GG,  
Telephone: 0161 475 3000

Emergency Information (24 hours freephone): 0049 180 227 3112  
Technical Enquiries: 0845 602 2553 (office hours)

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## Warning

**May cause an allergic skin reaction.  
Suspected of damaging the unborn child.  
Harmful to aquatic life with long lasting effects.**

Wear protective gloves/clothing/eye protection.  
If medical advice is needed, have product container or label at hand.  
Avoid breathing mist/vapours/spray.  
IF ON SKIN: Gently wash with plenty of soap and water.

Store locked up.

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.

Contains: 1,2-benzisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

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



## IMPORTANT INFORMATION

**FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE, as directed below:**

<b>CROPS:</b>	<b>Oilseed rape</b>
<b>MAXIMUM INDIVIDUAL DOSE:</b>	1.0 litre/ha
<b>MAXIMUM TOTAL DOSE PER CROP:</b>	2.0 litres/ha/crop
<b>LATEST TIMING:</b>	50% of pods have reached final size (GS 75)

### Other specific restriction:

A minimum interval of 14 days must be observed between applications

**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.**

## 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.

Highgate is a protectant and systemic fungicide for use in oilseed rape for the control of *Sclerotinia* stem rot.

## Restrictions/Warnings

Avoid spray drift on to neighbouring crops.

Highgate represents minimal hazard to bees when used as directed. Consideration should be given to informing bee-keepers when you intend spraying crops in flower. Highgate should not be applied with pyrethroids to oilseed rape at flowering.

A reduction in *Sclerotinia* control may be observed in oilseed rape when high-risk infection conditions occur after flowering, leading to secondary spread of the disease through plant-to-plant contact, which may be more severe in lodged crops.

After spraying, wash out sprayer thoroughly according to manufacturer's guideline and dispose of washings and clean container according to DEFRA Code of Practice and local authority guidelines.

## Disease control

Highgate is a protectant and systemic fungicide for use in oilseed rape for the control of *Sclerotinia* stem rot.

## Resistance Management

Highgate contains boscalid, which belongs to the SDHI (carboxamide) group of fungicides, and metconazole, which belongs to the DMI group of fungicides.

Currently there is no evidence of field strains of *Sclerotinia sclerotiorum*, *Alternaria brassicae* or *Phoma lingam* that are resistant to SDHI or DMI fungicides in oilseed rape.

Currently there is evidence of cross resistance between boscalid and other fungicides in the SDHI group, but no cross resistance has been observed with fungicides with other modes of action.

The FRAC SBI Working Group recommends that all DMIs are considered as one product group in which general cross-resistance exists. Within the SBI-group, there is no cross-resistance between morpholines and DMI fungicides. There is no cross-resistance or a correlation in the sensitivity of triazoles to other modes of action.

The key of resistance management strategies is the reduction of selection pressure. This can be achieved by good agricultural practice which leads to less infection pressure (e.g. crop & stubble hygiene, use of less susceptible varieties, crop rotation, use of healthy seeds, etc).

Risk assessments for the target diseases on oilseed rape indicate a low or medium risk of resistance development. To minimise any possible risk of resistance occurring, the number of applications of Highgate should be restricted to two per crop. Highgate should be applied in a preventive manner, following the recommendations on the label, and as an integral part of a spray programme including fungicides with different modes of action.

For further advice on resistance management in oilseed rape contact your agronomist or specialist advisor, and visit the Fungicide Resistance Action Committee (FRAC) and UK Fungicide Resistance Action Group (FRAG) websites.

## Crop Specific Information

### Oilseed rape

Highgate can be used on all varieties of oilseed rape.

### Time of Application

Apply Highgate as a protectant spray.

Applications against *Sclerotinia* should be made in high disease risk situations at early to full flower (GS 63-65 BBCH), to coincide with or just before first petal fall, and before disease symptoms are visible.

Two applications can be made up to and including when 50% of pods are at final size (BBCH GS 75), allowing a minimum interval of 14 days between applications. Applications made after the end of flowering (GS 69) may result in reduced levels of *Sclerotinia* control.

## Mixing and Application

### Mixing

Never prepare more spray solution than is required.

Three quarters fill the tank with clean water and start the agitation.

To ensure thorough mixing of the product, invert the container several times before opening.

Add the required quantity of Highgate to the spray tank while re-circulating.

Add the remainder of the water and continue agitation until spraying is complete.

When tank mixes are to be used, take due note of any instructions given as to the order of mixing.

Each product should be added separately to the spray tank and fully dispersed before the addition of any further product(s).

Rinse empty containers thoroughly, using an integrated pressure rinsing device or by manually rinsing three times.

Add washings to tank at time of filling and dispose of container safely.

### **Application**

Apply 1.0 l/ha Highgate in a recommended water volume of 200-300 litres of water per hectare as a MEDIUM spray, as defined by the BCPC. In dense crops, using the increased water volume will help achieve adequate penetration and good coverage of the crop.

Where possible use narrow-wheeled high clearance application equipment. To ensure optimum spray coverage and minimize spray drift, adjust the spray boom to the appropriate height above the crop, according to guidance provided by the sprayer and/or nozzle manufacture.

### **Following Crops**

#### **Following crops after normally harvested oilseed rape**

Any crop can follow normally harvested oilseed rape treated with Highgate.

#### **Re-drilling due to crop failure**

In the event of crop failure, any crop can be re-drilled after an interval of 5 weeks following of an application of Highgate.

### **Compatibility**

For information on compatibility contact the BASF Technical Services Hotline: 0845 602 2553

### **The following does not form part of the authorised label text.**

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other

products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, 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 for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.

## **Section 6 of the Health and Safety at Work Act**

### **Additional Product Safety Information**

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 Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results.

### **Safety Data Sheet**

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



[agricentre.basf.co.uk/Highgate/MSDS](http://agricentre.basf.co.uk/Highgate/MSDS)

Alternatively, contact your supplier.

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