



Wolverine®

Fungicide

GROUP

3 + 7

FUNGICIDE

MAPP No. 19374

An emulsifiable concentrate containing 45 g/litre (4.4% w/w) metconazole and 62.5 g/litre (6.1% w/w) flupyrroxad.
A systemic fungicide for use in winter wheat, spring wheat, durum wheat, winter barley, spring barley, triticale and rye.

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

Contains propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)-. May produce allergic reaction



UFI: UA83-E07H-U005-DP03

READ THE LABEL BEFORE USE. USING THE PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS

WARNING

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

Suspected of damaging the unborn child.

May cause harm to breast-fed children

Very toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Call a POISON CENTRE or doctor/physician.

Use only outdoors or in a well-ventilated area

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.

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

Authorisation holder: BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport, SK1 3GG, United Kingdom Tel: 0161 475 3000

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fmc.com Website: www.fmc-agro.co.uk. Technical Helpline: 01423 205011 **Emergency No.s - Medical Incidents Involving Crop Protection Products:** England & Wales: 111, Scotland: 08454 24 24 24, Northern Ireland: Local GP or Pharmacist, Republic of Ireland: 01 837 9964. **Healthcare professionals seeking poisons information:** www.toxbase.org **Emergency No.s - Transportation, Warehousing & After Sale Incidents:** CHEMTREC help centre: Dialling from the UK and NI: 0870 820 0418, Dialling from Ireland: 01 901 4670

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This label is compliant with the CPA Voluntary Initiative Guidance

Batch number: see elsewhere on the bottle

Contents:

10 litres



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www.fmc-agro.co.uk



To access the Safety Data Sheet for this product, scan the QR code or use the weblink below: <https://data.fmc-agro.co.uk/wp-content/uploads/Wolverine-SDS.pdf>
Alternatively, contact your supplier.

IMPORTANT INFORMATION: FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops	Maximum Individual Dose	Max No. of Treatments	Latest time of Application
Wheat (winter), Wheat (spring), Durum wheat, Rye, Triticale, Barley (winter) and Barley (spring)	2.0 l/ha	2 per crop	Up to and including flowering (anthesis) just complete (GS 69)

Other Specific Restrictions:

To protect birds, only one application is allowed on cereals before GS 29 (end of tillering).

A minimum interval of 21 days must be observed between applications.

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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.

Wolverine® is a systemic fungicide with protectant and curative properties for the control of a range of diseases in winter and spring wheat, durum wheat, winter and spring barley, triticale and rye.

Restrictions/Warnings

Avoid spray drift on to neighbouring crops and field margins.

When applied to barley intended for malting, refer to the latest timing restrictions for flupyroxad given by the British Beer and Pub Association.

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

Wolverine® is a systemic fungicide with protectant and curative properties for the control of a range of diseases in winter wheat, spring wheat, durum wheat, winter barley, spring barley, triticale and rye as summarised below.

In addition, when applied for disease control this product may increase green leaf area retention of wheat, barley, rye and triticale

	Winter wheat	Spring wheat	Winter barley	Spring barley	Durum wheat	Rye	Triticale
Powdery mildew	MC	MC	MC	MC	MC	MC	MC
<i>Septoria tritici</i>	C	C	-	-	C	-	C
Yellow rust	C	C	C	C	C	C	C
Brown rust	C	C	C	C	C	C	C
Net blotch	-	-	C	C	-	-	-
<i>Rhynchosporium</i>	-	-	C	C	-	C	-
Tan spot	GR	GR	-	-	GR	-	-
<i>Ramularia</i>	-	-	C	C	-	-	-
Eyespot	GR	-	-	-	GR	GR	GR
<i>Fusarium</i> ear blight	GR	GR	-	-	GR	-	-
<i>Cladosporium</i>	MC	MC	-	-	MC	-	-

C = Control; MC = Moderate Control; GR = Good Reduction

Resistance Management

Wolverine® should be used in accordance with the instructions for use for the target diseases at the specific growth stages indicated.

Use Wolverine® as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control.

You must not apply more than two foliar applications of products containing complex II inhibitors to any cereal crop.

Strains of certain cereal diseases with decreased sensitivity to triazole fungicides are known to exist in the UK. Where these occur or develop Wolverine® may not give satisfactory control.

Wolverine® contains metconazole, a DMI fungicide. Resistance to some DMI fungicides has been identified in Septoria leaf blotch (*Mycosphaerella graminicola*) which may seriously affect the performance of some products. For further advice on resistance management in DMIs contact your agronomist or specialist advisor and visit the FRAG-UK website.

CROP SPECIFIC INFORMATION

Wolverine® is a systemic fungicide with protectant and curative properties for use in winter wheat, spring wheat, durum wheat, winter barley, spring barley, triticale and rye.

Time of Application

Apply Wolverine® at the start of disease attack following a disease risk assessment or the use of appropriate decision support systems. A maximum of two applications can be made up to and including flowering just complete.

Rate of Application

Apply 2 litres Wolverine® per hectare in 100 to 300 litres of water per hectare.

Qualified recommendation

Wolverine® may be applied at 2 litres per hectare in 100 litres of water per hectare although efficacy against stem-based diseases at this reduced volume has not been evaluated. Therefore, application at 100 litres water per hectare is at user's risk with regards to biological efficacy.

Following Crops

After treating a cereal crop with Wolverine® the following crops can be sown: barley, cabbages, carrots, clover, dwarf French beans, field beans, lettuce, maize, oats, oilseed rape, onions, peas, potatoes, ryegrass, sunflowers, sugar beet and wheat.

The effects of Wolverine® on other crops has not been assessed.

MIXING AND APPLICATION

Mixing

Half fill the spray tank with clean water and start the agitation.

SHAKE THE CONTAINER WELL before use and pour in the required amount of product.

Rinse any empty containers thoroughly and add rinsings to the spray tank. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be used, each product should be added separately to the spray tank, taking due note of any instructions given as to the order of mixing.

Application

Apply as a MEDIUM spray, as defined by BCP.

Compatibility

For details of compatibilities contact your distributor, local FMC representative or the FMC Technical Helpline on: 01423 205011 or visit our website on: www.fmc-agro.co.uk.

Notice to Buyer

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, 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.

SAFETY PRECAUTIONS

Operator protection:

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

Operators must wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.

Operators must wear suitable protective clothing (coveralls) and 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.

Environmental protection:

Since there is a risk to aquatic life from use, users not applying the statutory buffer zone must either themselves carry out or ensure that someone else

has carried out a Local Environment Risk Assessment for Pesticides (LERAP) on their behalf before each spraying operation from a horizontal boom sprayer. Users must not allow direct spray from such sprayers to fall within 5m of the top of the bank of any static or flowing waterbody or within 1m of a ditch which is dry at the time of application (these distances to be measured as set out in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers' and any amendments that are made to it) unless:

- (a) The LERAP indicates that a narrower buffer zone will be sufficient; and
- (b) Any measures indicated by the LERAP as justifying the narrower buffer zone are complied with in full and in accordance with any conditions applicable to them.

Spray must be aimed away from water.



The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products

(Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).

Detailed guidance on LERAPs and how to conduct a LERAP are contained in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers', available from HSE Chemicals Regulation Division's website. All LERAPs must be carried out in accordance with this Guidance and any amendments that are made to it.

Other specific restrictions:

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 the 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

To protect birds, only one application is allowed on cereals before GS 29 (end of tillering).

A minimum interval of 21 days must be observed between applications.

Non-returnable containers must not be re-used for any purpose.

Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

DO NOT RE-USE CONTAINER for any purpose.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

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 container safely.

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