

Mandarin

2.5 L C



of stem-base, foliar and ear



Safety information

MANDARIN Xpro

UFI: EFG0-900G-\$003-WAY0 Contains 60 g/L (6.2% w/w) bixafen, 200 g/L (20.2% w/w) prothioconazole and N,N,-Dimethyl decanamide.



Harm al it swallowed

May cause an allergic skin reaction Ma cause respiratory irritation.

Causes serious eve irritation

Very toxic to aquatic life with long lasting effects.

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

IF exposed or if you feel unwell: Call a POISON CENTER / doctor/physician.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty 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.

PCS No. 05258

For Professional use only













SAFETY PRECAUTIONS

Operator Protection

WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH ANY CONTAMINATION from eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after work.

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

Do not apply by hand held equipment.

Environmental Protection

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

Do not contaminate water with the product of its container. (Do not clean application, quiprinent near surface water. Avoid contamination via arains from farmyards and roads).

Collect spillages.

Storage and Disposal

KEEP IN OP'GINAL CONTAINER tightly closed in a safe, lace.

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.
RIN'SE CONTAIL F'X THOROUGHLY by using an

three times. As washings to sprayer at time of filling and dis not of safely.

DO NOT IKE-USE CONTAINER for any purpose.

PROTECT FROM FROST



To access the **Safet v Data Ineet** for this product scan the cold or use the link below:

www.bayercropsciel e.ie/sds/mandarinxpro.pdf

or alternatively contact your supplier

Authorisation holder: Bayer CropScience Limited 230 Cambridge Science Park, Milton Road, Cambridge, CB4 0WB, United Kingdom Marketing Company: Bayer CropScience Ltd, Bayer Ltd, 1st Floor, The Grange Offices, The Grange, Brewery Road, Stillorgan, Co. Dublin A94 H2K7 Freephone: 1800 818534

For 24 hour emergency information contact Bayer CropScience Ltd. Telephone: 00800 1020 3333

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.

 $\label{eq:mandarin_xpro} \text{Mandarin}_{\text{Xpro}} \text{ is a mixture of a carboxamide and triazolinthions fungicide recommended for control of a wide range of diseases on winter and spring barley and onto$

RATE OF USE

Crop	Maximum individual dose	Naximum numicer of pplications	Latest time of application
Winter and spring barley, winter and spring oats	1.0 litres product per hectare	2 per crco	Up to beginning of flowering, (GS 61)

Method of application: Tractor mounted spraye

A spray pressure of 2-3 bar \sim recommended. Apply Mandarin, $_{\rm Xpro}$ in 100-300 litres water per hectare.

Apply as a medium spray quality.

CROPS

Mandarin, may be used on all commercial varieties of winter and spring barley and oats

APPLICATION

Water Volume

Apply Mandarin_{xoro} in 100-300 litres of water per hectare. The higher spray volumes are recommended where the crop is dense or disease pressure / risk is high to ensure good penetration to the lower leaves and stem bases. Disease control maybe compromised by reducing water volumes, where good spray coverage is difficult to achieve.

Latest Permitted Timing

In barley and oats Mandarin, may be applied at the trace up to the beginning of flowering.

Mixina

Thoroughly shake the pack before use.

Add the required quantity of Mandarin, to the half-filled splay lank with the agitation system in operation and then fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely simply. Spray more dately after mixing.

General

Sprayers should be thoroughly cleaned with water and detergent after use, and filters and jets checked for damage and blocked as

Boom height should be adjusted to ensure even coverage of the crop, particularly at later growth stages. The correct height is one at which the spray from alternate nozzles meets just above the crop, In dense crops, at later growth stages, higher water volumes should be used.

DISEASES CONTROLLED

		Barley	Oats		
Eyespot		R	R		
Powdery Mildew		С	С		
Yellow rust		С			
Brown rust		9//	(V)		
Fusarium ear blight		ViC			
Sooty moulds		R			
Rhychosporium		C			
Net blotch	<	C			
Ramularia	C	0 0			
Crown rust		CV	С		
C = Control 11C - Moderate control R= Reduction					

Other specific restrictions

A maximum of 2 foliar applications of product(s) containing SDHIs can be applied to any cereal crop.

APPLICATION TIMING

CEREALS

Eyespot (Oculimacula spp.)

Spray in the spring at the first sign of disease, from when the leaf sheaths begin to become erect until the 2nd node is detectable (GS 30-32).

Powdery Mildew (Blumeria graminis)

Apply Mandarin $_{\rm \chi pro}$ at the first signs of disease. Where disease pressure remains high application may be repeated.

Yellow Rust (Puccinia striiformis)

Apply Mandarin_{Xpro} at the first signs on isease. A second application may be made 2-3 weeks later if re-infection occurs. Applications make to established injections are likely to be less effective.

Brown Rust (Puccinia horc ei)

Apply Mandarin_{xpro} at the first sions of discase A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

Crown Rust (Puccinia coronata)

Apply Mandarin_{Xpro} at the first signs of cisease. Mandarin_{Xpro} controls crown rust in winter and spring oats. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.

Ear Disease Complex

Apply Mandarin_{xpro} soon after ear emergence until the beginning of flowering (GS 61) for moderate control of *Fusarium* ear blight and reduction of sooty moulds in barley. Control of ear diseases can result in cleaner, brighter ears.

Leaf Blotch (Rhynchosporium secalis)

Apply $Mandarin_{\chi_{pro}}$ in spring at the first signs of disease. For some infections a second application may be necessary 2-3 weeks later.

Net Blotch (Pyrenophora teres)

Apply Mandarin_{xpro} at the first signs of disease it conng/early sum, et. For severe infections, a second application 2-3 weeks later will give most effective control when conditions remain favourable for disease development.

Ramularia (Ramularia collo-cygni)

Apply $Mandarin_{\chi_{pro}}$ at the first signs of sise se. Applications made to established infections are likely to be less effective.

RESISTANCE STRATEG

No more than two applications of SDH in hibrars must be applied to the same crop.

Isolates of certain cereal diseases with decreased sensitivity to DMI fungicides are known to exist. Where these occur or develop Mandarii and may not give satisfactory control.

Mixtures of two or more SDHI fungicides do not provide an anti-resistance strategy. Each application of such a mixture counts as one SDHI application.

Tank mixtures or alternation with fungicides having a different mode of action against the diseases present have been shown to protect against the development of resistant forms of disease.

Do not tank mix Mandarin_{xnm} with other SDHI containing fungicide formulations.

Mandarin $_{\chi_{pro}}$ should be used in accordance with the instructions for use for the target diseases at the specific growth stages indicated.

Use Mandarin _{xpro} as part of an Integrated Crop Manage ner. (ICM) strategy incorporating other methods of control.

For further advice on resistance management contact your agronomist or specialist advisor and visit the FRAG-UK website.

CAUTION: The possible development of accesse strains a sistant to Mandarin_{xpo} cannot be excluded or predicted. Where such resistant such a secur, Mandarin_{xpo} is unlikely to give satisfactory control.

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