



**CONTAINS** An emulsifiable concentrate formulation containing 160 g/L prothioconazole and 300 g/L spiroxamine.

**CONTROLS** A fungicide for the control of stem-base, foliar and ear diseases in winter and spring wheat, durum wheat, winter rye, triticale, and winter and spring barley and oats.

PCS 03789

## 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.

Helix is a mixture of a triazolinthione and spiroketoalamine fungicide recommended for control of a wide range of diseases on winter and spring barley, winter and spring oats, winter and spring wheat, durum wheat, triticale and winter rye.

## RATE OF USE

CROP	MAXIMUM INDIVIDUAL DOSE	MAXIMUM NUMBER OF APPLICATIONS	LATEST TIME OF APPLICATION
Winter and spring wheat, durum wheat, triticale and winter rye	1.25 litres product per hectare	2 per season*	At any stage before caryopsis watery ripe (GS 71)
Winter and spring barley and oats	1.25 litres product per hectare	2 per season*	At any stage before beginning of flowering (GS 61)

\* There must be a 14 day interval between treatments

fungicide

**Method of application:** Tractor mounted / trailed sprayer.

A spray pressure of 2-3 bar is recommended.  
Apply Helix in 100-300 litres per hectare water.

Apply as a **MEDIUM** spray quality.

Apply Helix in 100 to 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.

## DISEASES CONTROLLED

DISEASE	WHEAT	BARLEY	OATS	TRITICALE	RYE
Eyespot ( <i>Oculimacula</i> spp )	R	R	R	R	R
Septoria Leaf Blotch ( <i>Mycosphaerella graminicola</i> )	C			C	C
Glume Blotch ( <i>Stagonospora nodorum</i> )	C				C
Powdery Mildew ( <i>Blumeria graminis</i> )	C	C	C	C	C
Yellow Rust	C	C		C	
Brown Rust	MC	C		C	C
Crown Rust			C		
Tan Spot	MC				
Net blotch		C			
Fusarium Ear blight	MC	MC		MC	MC
Sooty Moulds	R	R		R	R
Rhynchosporium Leaf Blotch		C		C	C

C = Control. MC = Moderately controlled. R = Reduction

### 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).

### Septoria Leaf Spot and Glume Blotch (*Mycosphaerella graminicola* and *Stagonospora nodorum*)

Apply before disease is established in the crop. To protect the upper leaves and ear apply Helix at full flag leaf emergence (GS 37) up to mid-flowering (GS 65). Where disease pressure remains high application may be repeated.

Applications to upper leaves where *S. tritici* symptoms are present are likely to be less effective.

Take all precautionary measures to reduce the selection pressure for insensitive *Septoria tritici* strains (e.g. tank-mix with product having a different mode of action which is active against *Septoria*). Consult your adviser for up to date guidance regarding current resistance status and a strategy for preventing and managing resistance in the cereal pathogens listed on the label.

The Fungicide Resistance Action Committee (FRAC) produces recommendations that may be consulted for additional information

**Powdery Mildew (*Blumeria, graminis*)**

Apply Helix at the first signs of disease. Where disease pressure remains high application may be repeated.

**Yellow Rust (*Puccinia striiformis*)**

Apply Helix at the first signs of disease. 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.

**Brown Rust (*Puccinia hordei* and *P. recondita*)**

Apply Helix at the first signs of disease. 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 Helix at the first signs of disease. 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.

**Tan Spot (*Pyrenophora tritici-repensis*)**

Apply Helix at the first signs of disease in spring or early summer.  
Where disease pressure remains high application may be repeated.

**Ear Disease Complex**

Apply Helix soon after ear emergence until the end of flowering (GS 59-69).  
Control of ear diseases can result in cleaner, brighter ears.

**Leaf Blotch (*Rhynchosporium secalis*)**

Apply Helix in spring at the first signs of disease. For severe infections a second application may be necessary 2-3 weeks later.

**Net Blotch (*Pyrenophora teres*)**

Apply Helix at the first signs of disease in spring/early summer. For severe infections, a second application 2-3 weeks later will give most effective control when conditions remain favourable for disease development.

## RESISTANCE STRATEGY

Repeated application of Helix alone should not be used on the same crop against a high risk pathogen such as cereal powdery mildew. Tank-mixtures or alternation with fungicides having a different mode of action have been shown to protect against the development of resistant forms of disease.

Take all precautionary measures to reduce the selection pressure for insensitive *Septoria tritici* strains (e.g. tank-mix with product having a different mode of action which is active against *Septoria*). Consult your adviser for up to date guidance regarding current resistance status and a strategy for preventing and managing resistance in the cereal pathogens listed on the label.

The Fungicide Resistance Action Committee (FRAC) produces recommendations that may be consulted for additional information.

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

## CROP SPECIFIC INFORMATION

Helix may be used on all commercial varieties of winter and spring barley, winter and spring oats, winter and spring wheat, durum wheat, triticale and winter rye.

## MIXING

### THOROUGHLY SHAKE THE PACK BEFORE USE

Add the required quantity of Helix to the half-filled spray tank 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 empty. Spray immediately after mixing.

### General

Sprayers should be thoroughly cleaned before use, and filters and jets checked for damage and blockages.

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.

Spray equipment should be thoroughly cleaned with detergent after use.

## SAFETY PRECAUTIONS

### Operator Protection

**AVOID CONTACT WITH SKIN.**

Keep unprotected workers out of treated areas for at least 5 days after treatment.

### Environmental Protection

**DO NOT CONTAMINATE PONDS, WATERWAYS OR DITCHES** with chemical or used container.

Users must not allow direct spray from horizontal boom 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.

Spray must be aimed away from water.

### Storage and Disposal

**DO NOT RE-USE CONTAINER** for any other purpose and dispose of safely.

**PROTECT FROM FROST.**

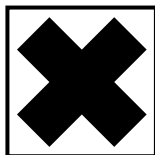
**STORE IN A COOL DRY PLACE.**

**READ ALL INSTRUCTIONS CAREFULLY BEFORE USE.**

## RISK AND SAFETY INFORMATION

### HELIX

Contains 160 g/L prothioconazole and 300 g/L spiroxamine.



**HARMFUL**



**DANGEROUS  
FOR THE  
ENVIRONMENT**

**HARMFUL BY INHALATION AND IF SWALLOWED.**

**IRRITATING TO EYES AND SKIN.**

**VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.**

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.

Wear suitable protective clothing and gloves.

Avoid contact with eyes.

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

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

Use appropriate containment to avoid environmental contamination.

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

Contains spiroxamine: May produce an allergic reaction.

To avoid risks to man and the environment comply with the instructions for use.

### PACK SIZE

5 L