

HELSINKI™



GROUP 3 FUNGICIDE

MAPP 19653 PROTHIOCONAZOLE 250 G/L

For use only as an agricultural fungicide for the control of stem-base, foliar and ear disease in winter and spring wheat (also reduction of the mycotoxin deoxynivalenol), durum wheat, winter rye, winter and spring barley, winter and spring oats and for disease control in winter oilseed rape.

An emulsifiable concentrate formulation containing 250 g/L (25% w/w) prothioconazole.

Safety Data Sheet for this product scan the QR code or use the weblink
<https://bit.ly/3trpqcO>
Alternatively, contact your supplier.



HELSINKI

Contains 250 g/L prothioconazole and N,N-Dimethyl decanamide.



FOR PROFESSIONAL USE ONLY

Warning

Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.

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 eye irritation persists: Get medical advice/attention. If exposed or

concerned, please call POISON CENTRE or doctor/physician. 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

2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-phenylpropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione. May produce an allergic reaction.

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

**PROTECT FROM FROST
SHAKE WELL BEFORE USE**

Transport Information
UN 3082 ADR/RID Class: 9 Packaging Group: III

net contents
5LE

Marketing Company Authorisation Holder
Crophthetics Ltd JT Agro Ltd
126-134, Baker Street, London W1U 6UE
Telephone: 01628 421890
www.jtagro-crophthetics.com
Email: jaitej@jtagro-crophthetics.com


crophthetics

08/21

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This leaflet is part of the approved label

For advice on medical emergencies, fires or major spills telephone the
National Chemical Emergency Centre on 01865 407333

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crops/situations	Maximum individual dose (Litres product/ha)	Maximum total dose (Litres product/season)	Maximum number of treatments	Latest time of application
Durum wheat, rye (winter), wheat	0.8	2.4	–	Before grain milky ripe stage (GS 71)
Barley, oats	0.8	1.6	–	Before beginning of flowering (GS 61)
Oilseed rape (winter)	0.7	1.4	–	Up to a pre-harvest interval of 56 days

Crops/situations	Aquatic buffer zone distance (metres)	Comment
Barley, durum wheat, oats, oilseed rape (winter), rye (winter), wheat	5	see Environmental Protection Phrase 1

Other specific restrictions:

This product must not be applied via hand-held equipment.

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.

THE (COSHH) CONTROL OF SUBSTANCE 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 AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

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 they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT DRINK OR SMOKE.

WASH ANY CONTAMINATION from eyes immediately.

IF SWALLOWED, seek medical advice immediately and show this container or label.

IN CASE OF AN ACCIDENT, or if you feel unwell seek medical advice immediately and show this container or label.

WASH HANDS AND EXPOSED SKIN before eating and drinking 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 M 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 M of the top of a ditch which is dry at the time of application.

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 FEEDINGSTUFFS.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose. PROTECT FROM FROST.

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.

HELSINKI is a triazolothione fungicide recommended for control of a wide range of diseases on winter and spring barley, winter and spring wheat, durum wheat, winter rye, winter and spring oats and for disease control in winter oilseed rape.

CEREALS

	Wheat	Barley	Oats	Rye
Eyespot (<i>Oculimacula</i> spp.)	R	R	R	R
Septoria leaf blotch (<i>Mycosphaerella Graminicola</i>)	MC	-	-	MC
Glume blotch (<i>Stagonospora nodorum</i>)	C	-	-	-
Powdery mildew (<i>Blumeria graminis</i>)	C	C	C	C
Yellow rust	C	C	-	C
Brown rust	MC	C	-	C
Crown rust	-	-	C	-
Tan spot	MC	-	-	-
<i>Fusarium</i> ear blight	MC	MC	-	-
<i>Rhynchosporium</i> leaf blotch	-	C	-	C
Net blotch	-	C	-	-

C = Control MC = Moderate control R = Reduction

Eyespot (*Oculimacula* spp.)

HELSINKI reduces the incidence and severity of eyespot. 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 HELSINKI 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.

Powdery Mildew (*Blumeria graminis*)

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

Yellow Rust (*Puccinia striiformis*)

Apply HELSINKI 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

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

Ear Disease Complex (*Fusarium* ear blight and sooty moulds)

Apply HELSINKI soon after ear emergence until the end of flowering (GS 59-69). Control of ear diseases can result in cleaner, brighter ears. Through the reduction of ear blight, HELSINKI effectively reduces the level of the *Fusarium* mycotoxin deoxynivalenol (DON) in wheat grain. However, where *Fusarium* levels are high, the reduction achieved may not always be sufficient to ensure that DON levels fall below the statutory limit.

Leaf Blotch (*Rhynchosporium secalis*)

Apply HELSINKI 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 HELSINKI 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.

WINTER OILSEED RAPE

Light leaf spot	MC
<i>Phoma</i> leaf spot/stem canker	C
Sclerotinia stem rot	C

C = Control MC = Moderate control

HELSINKI can also be used on all varieties of spring oilseed rape but crop safety has not been fully established.

Light Leaf Spot

Apply HELSINKI in autumn/winter (usually late October to early December) protectively. Follow up spray(s) may be required in early spring from the onset of stem elongation, depending on disease development.

***Phoma* Leaf spot/Stem Canker**

Apply HELSINKI in autumn at the first sign of disease. Repeat application in late autumn/winter, if disease symptoms reoccur.

***Sclerotinia* stem rot (*Sclerotinia sclerotiorum*)**

Apply HELSINKI at early to full flower.

RESISTANCE MANAGEMENT

Repeated application of HELSINKI 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 (e.g. morpholines) 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 advisor for up to date guidance regarding current resistance status and a strategy for preventing and managing resistance in the cereal and oilseed rape pathogens listed on the label.

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

Strains of light leaf spot resistant to azole fungicides are known to exist. To avoid development of resistance apply product protectively in response to disease forecasts. Where possible, when light leaf spot is present, avoid the use of azole based fungicides when targeting other diseases such as *Sclerotinia* at mid flowering. CAUTION: The possible development of disease strains resistant to HELSINKI cannot be excluded or predicted. Where such resistant strains occur, HELSINKI is unlikely to give satisfactory control.

CROPS

HELSINKI may be used on all commercial varieties of winter and spring barley, winter and spring wheat, durum wheat, winter rye, winter and spring oats and winter oilseed rape.

Method of application:

Tractor mounted/trailed sprayer.

A spray pressure of 2-3 bar is recommended. Apply as a medium spray quality.

Apply HELSINKI in 100-300 litres per hectare water. 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 may be compromised by reducing water volumes, where good spray coverage is difficult to achieve.

Mixing

Thoroughly shake the pack before use.

Add the required quantity of HELSINKI 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.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations and it provides additional advice on product use at the discretion of JT Agro Ltd.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, 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 re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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